DAIKIN

ED 38 - 329

# Engineering Data

# VRV® II-S

DAIKIN INDUSTRIES, LTD.

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# 1. Introduction

## Preface

Along higher quality building environment and more sophisticated building function, there is now a greater demand for system expansion for a flexible air-conditioning system capable of finer air-conditioning, thus increasing importance of individual air-conditioning systems. On the other hand, due to social significance of environmental and energy problems, elements such as energy-efficiency and low maintenance are still strongly desired.

Daikin is the sole air conditioning company in the world that manufactures every component from refrigerant to complete air conditioning systems itself. Our commitment to offering the best for people as well as the environment inspires us to develop new systems that make the most effective use of energy resources and protect the ozone layer.
**Daikin, the first in the industry to develop the VRV system, has now enhanced the R22 with the Inverter that features a capacity of 4, 5, 6 horsepower, a new addition to the VRV system to further refine all the features of the current VRV system.**

This publication contains a variety of information related to the design and installation of this new VRV System. We hope this information will serve to deepen your understanding of the system, and will help you to efficiently develop its highly evolved characteristics.

DAIKIN INDUSTRIES, LTD
Global Operations Division

# 2. Publication History of VRV Engineering Data

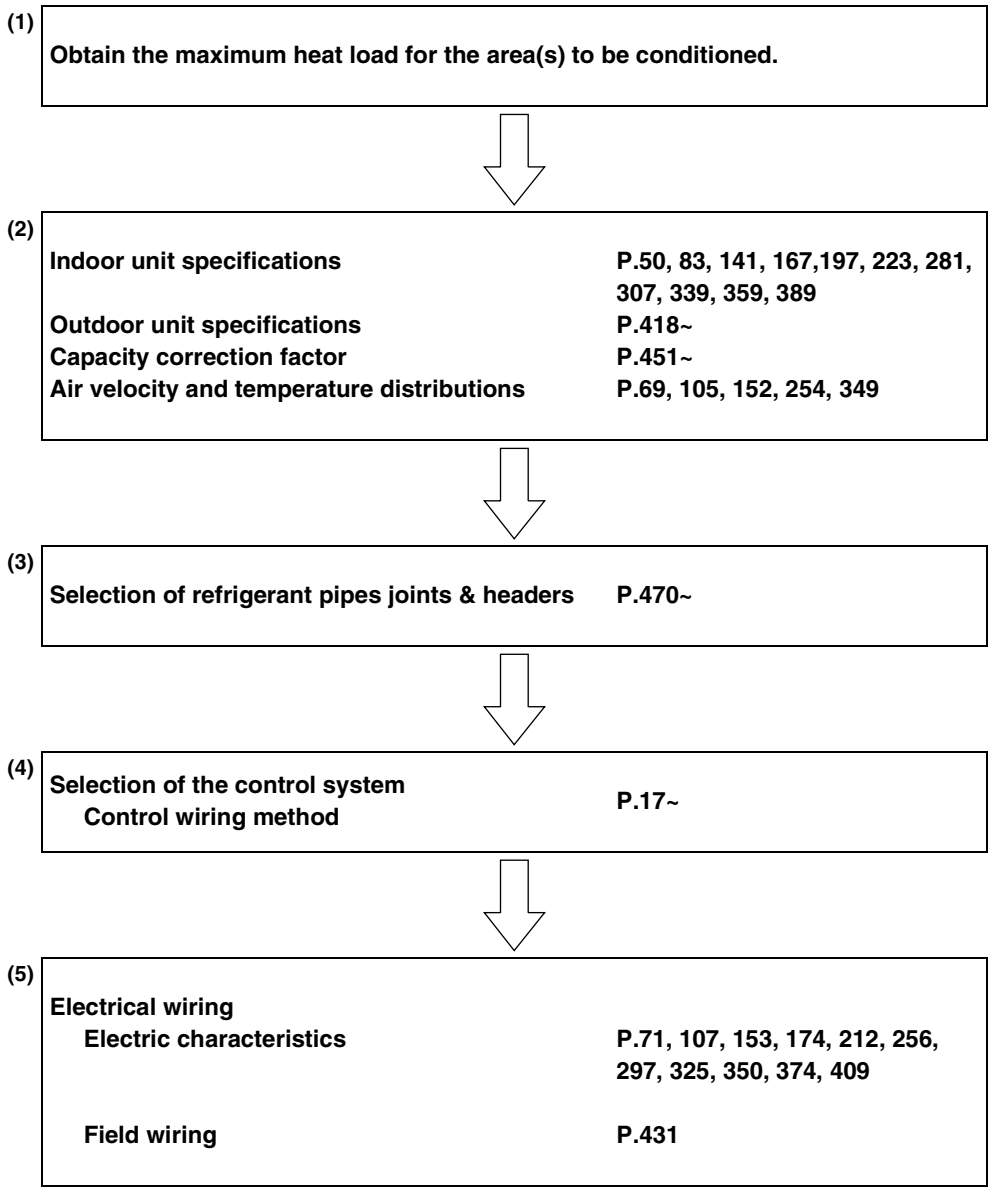
| Refrigerant | Type | Pub. : No. | Outdoor Units | | Notes | Published In |
|---|---|---|---|---|---|---|
| **R410A** | ■ INVERTER **M** | **ED39-226** | **50 Hz H/P** | RXYQ5M~48M | We published the R410A Series combining the materials of EDP39-226 adding the necessary items. | Feb.2003 |
| **R410A** | ■ INVERTER **M** | **ED39-226A** | **50 Hz H/P**<br>**50 Hz H/R** | RXYQ5M~48M<br>REYQ8M~48M | **VRV II** Heat Pump, Heat Recovery<br>■ New line up of Heat Recovery outdoor units. | Aug.2003 |
| **R407C** | **L**<br>**K (J)** | ED36-212 | **50/60Hz**<br>**50Hz**<br>**50Hz**<br>**50Hz** | RSXYP5L, 8L, 10L<br>RSXYP16~30KJ<br>RSEYP8~30KJ<br>RSXP5~30K | Combined Version of ED36-112 and ED37-213A exchanging the models from RSXYP5, 8, 10KJ to RSXYP5, 8, 10L | Sep.2002 |
| **R22** | ■ INVERTER **K, KA**<br>■ HEAT RECOVERY **KL**<br>■ OUTDOOR AIR PROCESS-ING UNIT **KF** | **ED31-208** | **50/60Hz**<br>**50Hz**<br>**60Hz**<br>**50Hz** | RSXY5K, 8K, 10K<br>RSX 5KA, 6KA, 8KA, 10KA<br>RSX 5K, 8K, 10K<br>RSEY 8KL, 10KL | Following change has been newly added to ED31-008<br>■ Model change of FXYF25-125KB<br>■ Model change of FXYA25, 32K<br>■ New line up of FXA20L<br>■ Change of indoor unit's model name with common use of R407C/R22, 50/60Hz except FXYD, FXYB, FXYA | Jul. 2002 |
| | PLUS Series **K(A)** | **ED33-010A** | **50/60Hz**<br>**50/60Hz**<br>**50Hz** | RSXY16KA~30KA<br>RX 16K~30K<br>REY 16K~30K | RSXY-KA : Function unitless Type<br>Following Model Change has been added to ED33-010<br>■ FXYH32-100K→FXYH32-100KA | Jun. 2001 |
| | | **ED35-211** | **50/60Hz**<br>**50/60Hz** | RXY 16K-K~30K-K<br>RX 16K-K~30K-K | ■ For Outdoor Temperature up to 50°CDB<br>■ For Saudi Arabia and Middle East | Nov. 2002 |
| | ■ INVERTER **M** | **ED38-225** | **50Hz H/P** | RXY5M~48M | **VRV II** Heat Pump 50HP<br>■ New line up of 5~48HP outdoor units<br>■ Model change of FXA40~63K→ FXA40~63L | Apr. 2003 |
| | | **ED38-225A** | **50/60Hz H/P**<br>**50Hz C/O** | RXY5M~48M<br>RX5M~48M | **VRV II** Heat Pump, Cooling Only<br>■ New line up of 60Hz Heat Pump outdoor units<br>■ New line up of 50Hz Cooling Only outdoor units | Jun. 2003 |
| | | **ED38-329** | **50/60Hz H/P**<br>**50Hz C/O** | RXYM4, 5, 6M<br>RXM4, 5, 6M | **VRV II**-S Heat Pump, Cooling Only<br>■ New line up of 4, 5, 6HP outdoor units<br>■ New line up of FXD Indoor units | Jan. 2004 |
| For All Types | | **OH02-1** | For Indoor and Outdoor Units. | | **Option Handbook** | Sep. 2002 |

This time we publish **ED38-329** as shown by .

H/P : Heat Pump
H/R : Heat Recovery
C/O : Cooling Only

**Note:** The reference number "(V○○○○)" are noted on each figures in this book however they are only used for printing convenience.

# 3. Step by Step VRV System Selection Process (Reference)




**Caution**

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor units is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided and choose an outdoor unit with anti-corrosion treatment.
3. Refer to the latest drawing numbers.

# Part 1
# General Information

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# 1. Model Names of Indoor/Outdoor Units

## Indoor Units

| Type | | Model Name | | | | | | | | | Power Supply |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling Mounted Cassette Type (Double Flow) | FXC | 20L | 25L | 32L | 40L | 50L | 63L | 80L | — | 125L | VE |
| Ceiling Mounted Cassette Type (Multi Flow) | FXF | — | 25L | 32L | 40L | 50L | 63L | 80L | 100L | 125L | |
| Ceiling Mounted Cassette Corner Type | FXK | — | 25L | 32L | 40L | — | 63L | — | — | — | |
| Slim Ceiling Mounted Duct Type | FXD | 20M | 25M | 32M | 40M | 50M | 63M | — | — | — | |
| Ceiling Mounted Low Silhouette Duct Type | FXYD | 20KA | 25KA | 32KA | 40KA | 50KA | 63KA | — | — | — | |
| Ceiling Mounted Built-In Type | FXS | 20L | 25L | 32L | 40L | 50L | 63L | 80L | 100L | 125L | |
| Ceiling Mounted Built-In (Rear Suction) Type | FXYB | 20K | 25K | 32K | 40K | 50K | 63K | 80K | 100K | 125K | V1 |
| Ceiling Mounted Duct Type | FXM | — | — | — | 40L | 50L | 63L | 80L | 100L | 125L | VE |
| Ceiling Suspended Type | FXH | — | — | 32L | — | — | 63L | — | 100L | — | |
| Wall Mounted Type | FXA | 20L | 25L | 32L | 40L | 50L | 63L | — | — | — | |
| Floor Standing Type | FXL | 20L | 25L | 32L | 40L | 50L | 63L | — | — | — | |
| Concealed Floor Standing Type | FXN | 20L | 25L | 32L | 40L | 50L | 63L | — | — | — | |

VE: 1ϕ, 220V~240V, 50Hz
1ϕ, 220V, 60Hz
V1: 1ϕ, 220V~240V, 50Hz

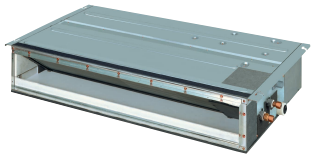
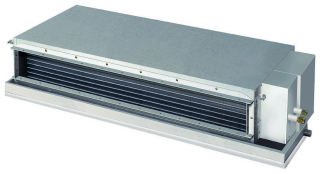
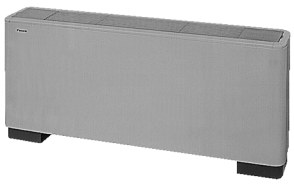
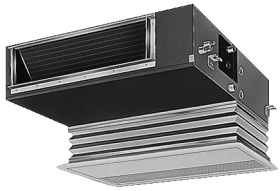
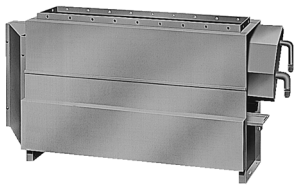
## Outdoor Units

| Series | Model Name | | | | Power Supply |
|---|---|---|---|---|---|
| Heat Pump | RXYM | 4M | 5M | 6M | VM VMT |
| Cooling Only | RXM | 4M | 5M | 6M | |

VM: 1ϕ, 220~230V, 50Hz
VMT: 1ϕ, 220V, 60Hz

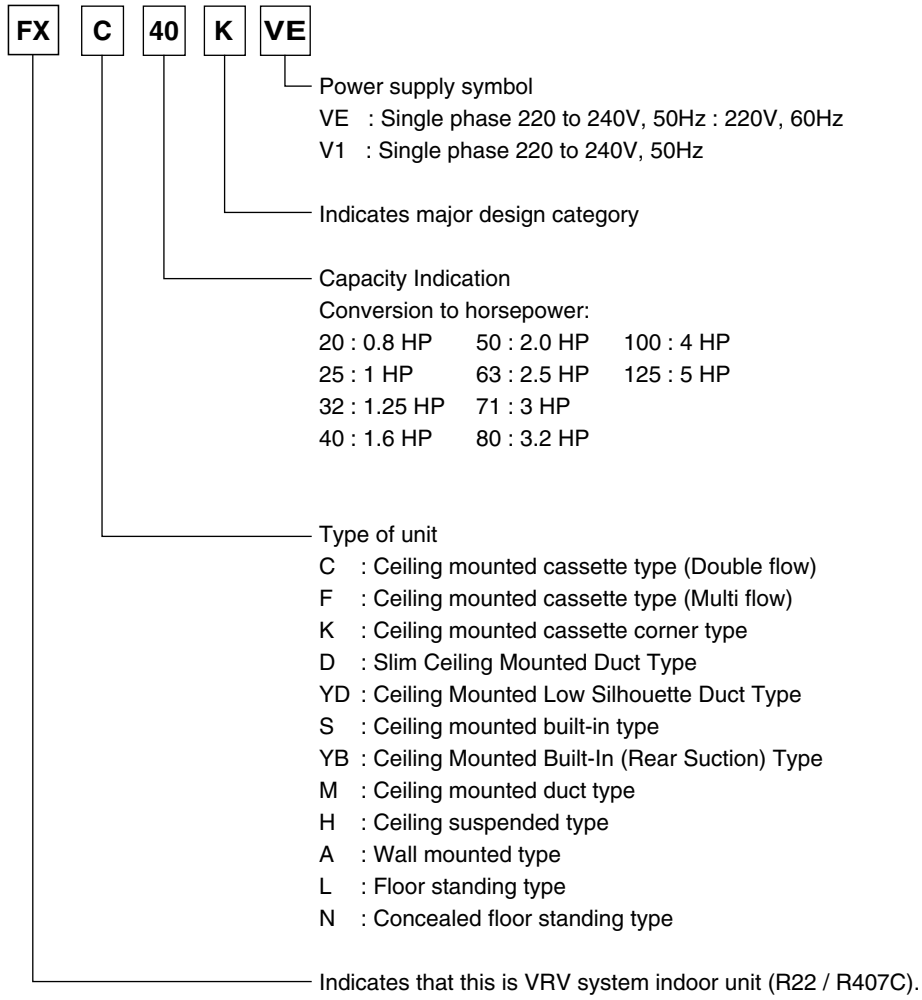
# 2. External Appearance

## 2.1 Indoor Units

| | |
|---|---|
| Ceiling mounted cassette type (Double flow)<br>FXC20L<br>FXC25L<br>FXC32L<br>FXC40L<br>FXC50L<br>FXC63L<br>FXC80L<br>FXC125L<br> | Ceiling mounted built-in type -rear suction type -<br>FXYB20K<br>FXYB25K<br>FXYB32K<br>FXYB40K<br>FXYB50K<br>FXYB63K<br>FXYB80K<br>FXYB100K<br>FXYB125K<br> |
| Ceiling mounted cassette type (Multi flow)<br>FXF25L<br>FXF32L<br>FXF40L<br>FXF50L<br>FXF63L<br>FXF80L<br>FXF100L<br>FXF125L<br> | Ceiling mounted duct type<br>FXM40L<br>FXM50L<br>FXM63L<br>FXM80L<br>FXM100L<br>FXM125L<br> <br>FXM40~125L |
| Ceiling mounted cassette corner type<br>FXK25L<br>FXK32L<br>FXK40L<br>FXK63L<br> | Ceiling suspended type<br>FXH32L<br>FXH63L<br>FXH100L<br> |
| Slim Ceiling Mounted Duct Type<br>FXD20M<br>FXD25M<br>FXD32M<br>FXD40M<br>FXD50M<br>FXD63M<br>  | Wall mounted type<br>FXA20L<br>FXA25L<br>FXA32L<br>FXA40L<br>FXA50L<br>FXA63L<br> |
| Ceiling mounted low silhouette duct type<br>FXYD20KA<br>FXYD25KA<br>FXYD32KA<br>FXYD40KA<br>FXYD50KA<br>FXYD63KA<br>  | Floor standing type<br>FXL20L<br>FXL25L<br>FXL32L<br>FXL40L<br>FXL50L<br>FXL63L<br>  |
| Ceiling mounted built-in type<br>FXS20L<br>FXS25L<br>FXS32L<br>FXS40L<br>FXS50L<br>FXS63L<br>FXS80L<br>FXS100L<br>FXS125L<br>  | Concealed floor standing type<br>FXN20L<br>FXN25L<br>FXN32L<br>FXN40L<br>FXN50L<br>FXN63L<br>  |

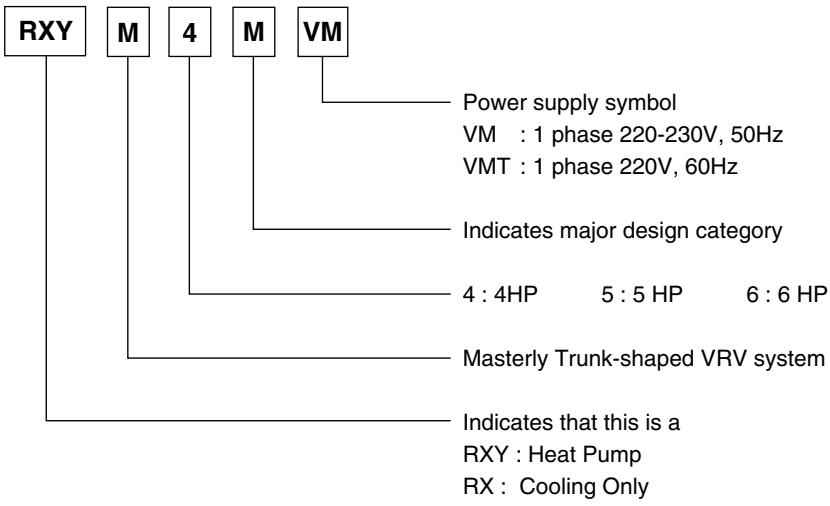
# 3. Nomenclature

## Indoor Unit




(V2286)

## Outdoor Unit




(V2288)

# 4. Capacity Range

## Outdoor Units

| Capacity Range | 4HP | 5HP | 6HP |
|---|---|---|---|
| RX (Y) | 4M | 5M | 6M |
| No of Indoor Units to be Connected | 6 | 8 | 9 |
| Total Capacity Index of Indoor Units to be Connected | 50 ~ 130 | 62.5 ~ 162.5 | 70 ~ 182 |

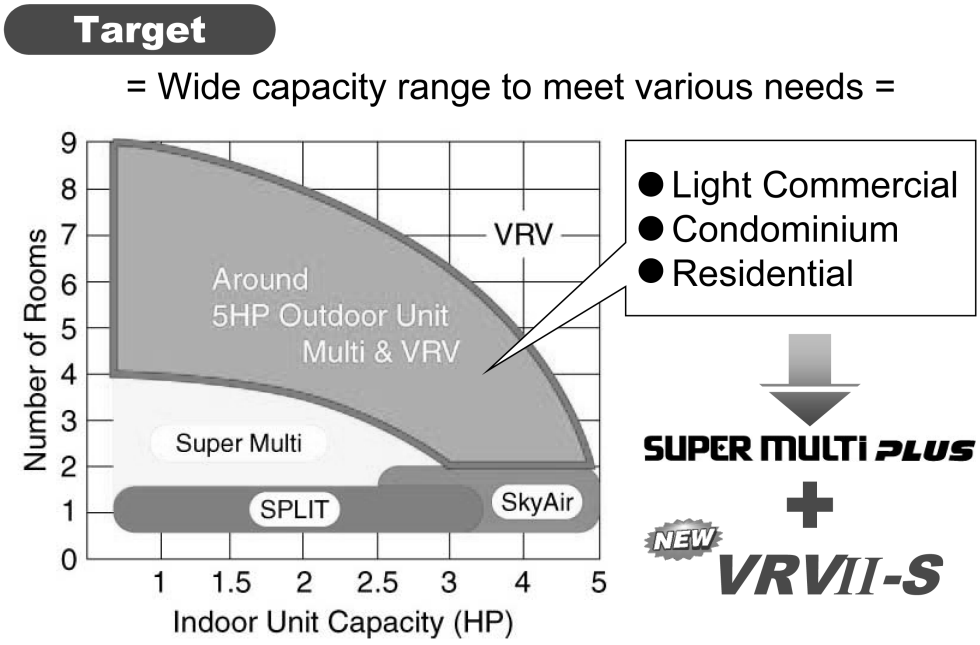
## Indoor Units

| Capacity Range | | 0.8 HP | 1 HP | 1.25 HP | 1.6 HP | 2 HP | 2.5 HP | 3.2 HP | 4 HP | 5 HP |
|---|---|---|---|---|---|---|---|---|---|---|
| Capacity Index | | 20 | 25 | 31.25 | 40 | 50 | 62.5 | 80 | 100 | 125 |
| Ceiling Mounted Cassette Type (Double Flow) | FXC | 20L | 25L | 32L | 40L | 50L | 63L | 80L | — | 125L |
| Ceiling Mounted Cassette Type (Multi Flow) | FXF | — | 25L | 32L | 40L | 50L | 63L | 80L | 100L | 125L |
| Ceiling Mounted Cassette Corner Type | FXK | — | 25L | 32L | 40L | — | 63L | — | — | — |
| Slim Ceiling Mounted Duct Type | FXD | 20M | 25M | 32M | 40M | 50M | 63M | — | — | — |
| Ceiling Mounted Low Silhouette Duct Type | FXYD | 20KA | 25KA | 32KA | 40KA | 50KA | 63KA | — | — | — |
| Ceiling Mounted Built-In Type | FXS | 20L | 25L | 32L | 40L | 50L | 63L | 80L | 100L | 125L |
| Ceiling Mounted Built-In (Rear Suction) Type | FXYB | 20K | 25K | 32K | 40K | 50K | 63K | 80K | 100K | 125K |
| Ceiling Mounted Duct Type | FXM | — | — | — | 40L | 50L | 63L | 80L | 100L | 125L |
| Ceiling Suspended Type | FXH | — | — | 32L | — | — | 63L | — | 100L | — |
| Wall Mounted Type | FXA | 20L | 25L | 32L | 40L | 50L | 63L | — | — | — |
| Floor Standing Type | FXL | 20L | 25L | 32L | 40L | 50L | 63L | — | — | — |
| Concealed Floor Standing Type | FXN | 20L | 25L | 32L | 40L | 50L | 63L | — | — | — |

# 5. Features

## 5.1 Outdoor Units

### 5.1.1 Target

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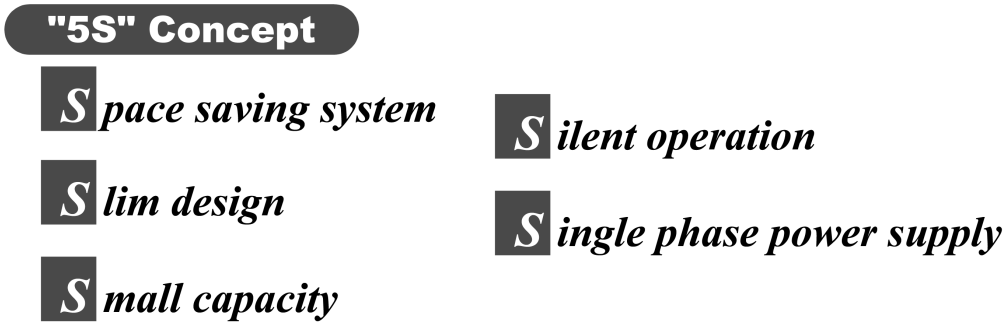
### 5.1.2 Product Concept




DAIKIN have remodeled the acclaimed VRVII system aiming at the precise power and compactness for small offices and shops.

Space saving and Slim design ... Trunk shaped body
Silent operation and Small capacity ... VRVII technology

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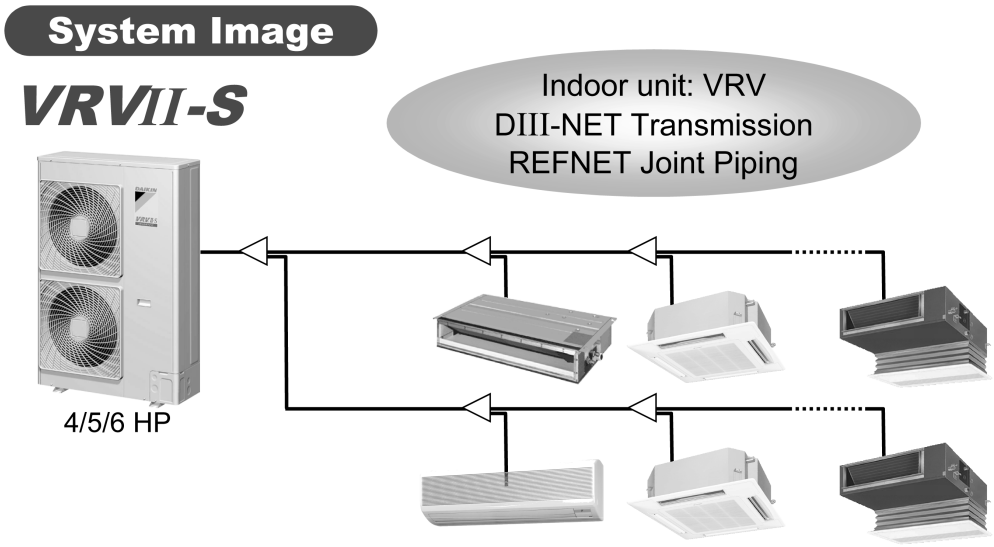
### 5.1.3 Outline of System

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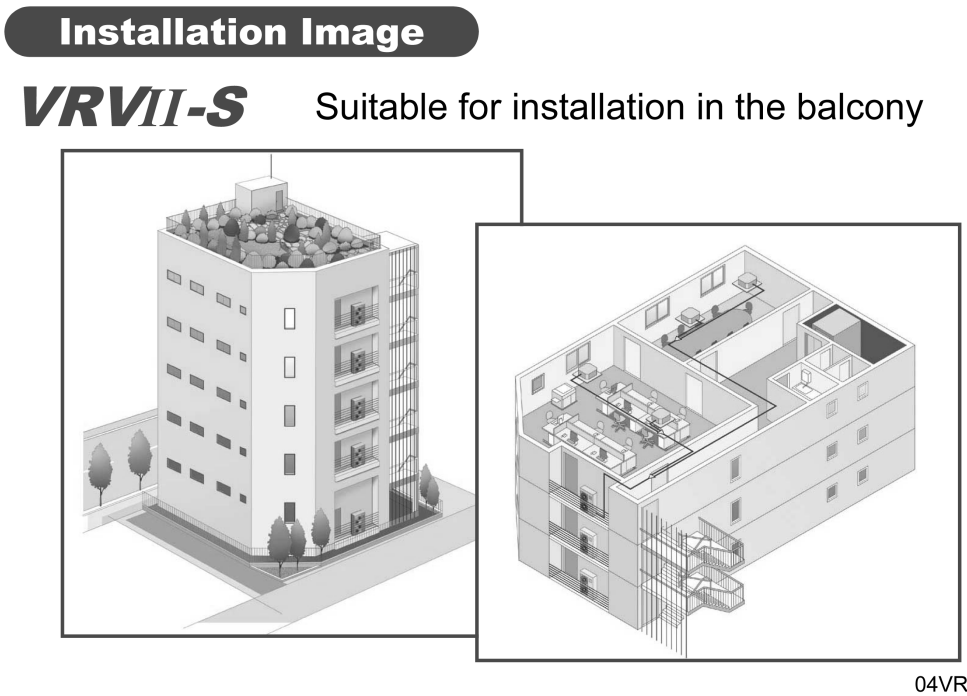


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### 5.1.4 Features

**Features**

- ■ Space Saving System
- ■ Easy Installation
- ■ Wider Range
  - ● 3 models of outdoor units (4,5,6HP)
  - ● Up to 9 indoor units can be connected (6HP)
  - ● Wide variety of VRV indoor unit (0.8-5HP, 12 type 77 models)
- ■ Energy Efficiency
- ■ Silent Operation
- ■ VRVII Installation System
  - ● Super wiring system (DIII-NET)
  - ● REFNET piping system

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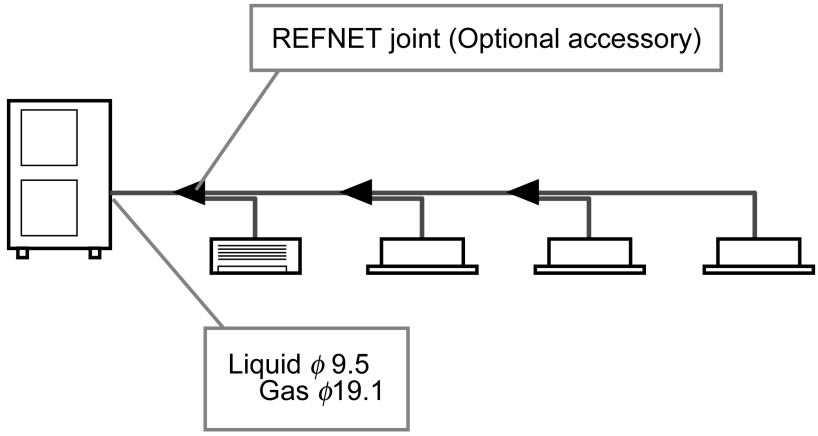
### 5.1.5 Installation

**Piping Method**

VRV style REFNET piping.

Easy installation : 1 line piping at outdoor unit side.

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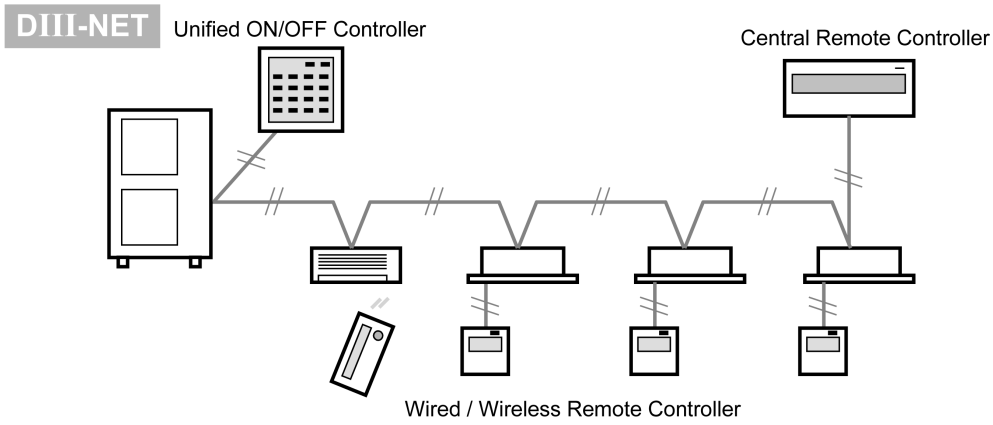
## Wiring Method

### *Super Wiring System*

A super wiring system is used to enable shared use of the wiring between indoor and outdoor units and the central control wiring, with a relatively simple wiring operation. DIII-NET communication system is employed to the use of advanced control system.

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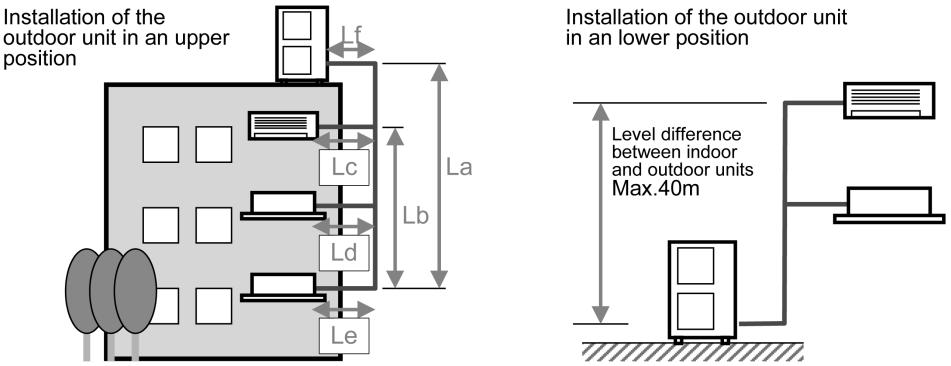
## 5.1.6 Flexible Design

## Longer Piping Length




| | VRV II-S | VRV II |
|---|---|---|
| Level difference between indoor and outdoor units: La | Max. 50m | Max. 50m |
| Level difference between indoor units: Lb | Max. 15m | Max. 15m |
| Total piping length: La+Lc+Ld+Le+Lf | Max. 300m | Max. 300m |
| Total piping length between indoor and outdoor units: La+Le+Lf | Max. 120m | Max. 150m |
| After branch piping length: Lc | Max. 40m | Max. 40m |

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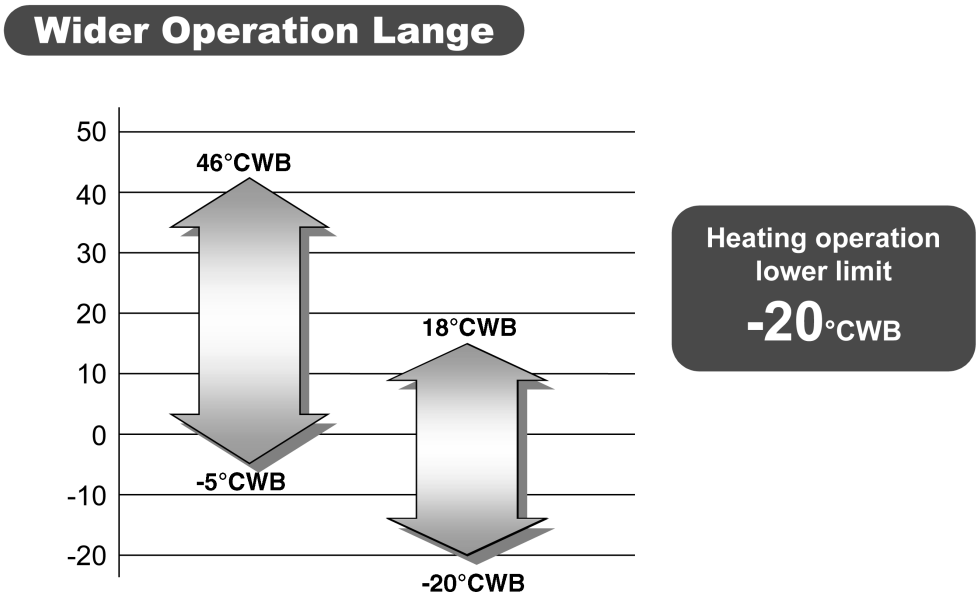


Note) Cooling only models : 21~46°CDB.

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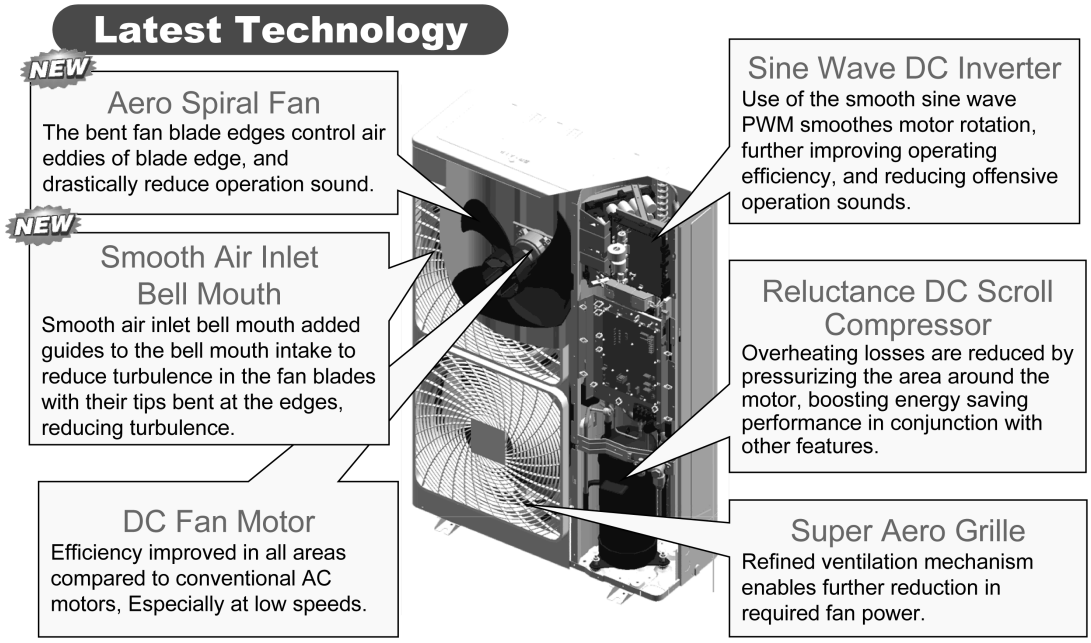
### 5.1.7 Energy Saving & Silent Operation

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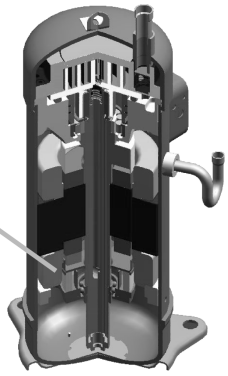
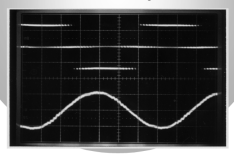
## Reluctance DC Compressor

Overheating losses are reduced by pressurizing the area around the motor, boosting energy saving performance in conjunction with other features.

**Reluctance DC scroll compressor**
Use of neodymium magnets in the motor enables efficient generation of high torque. Especially in middle-low speed, Efficiency rises drastically.



**Sine wave DC inverter**
the optimized sine wave improves operating efficiency.



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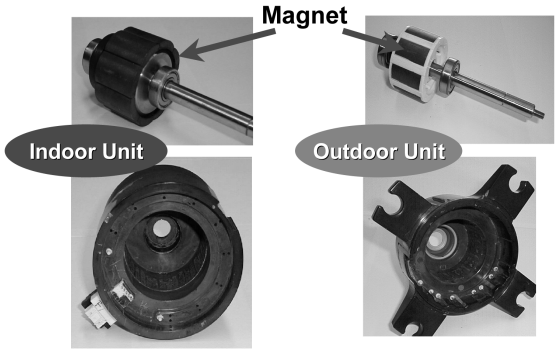
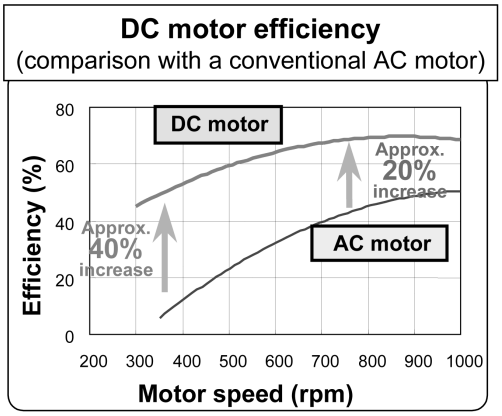
## DC Fan Motor

Efficiency improved in all areas compared to conventional AC motors, Especially at low speeds.

**DC Fan Motor Structure**

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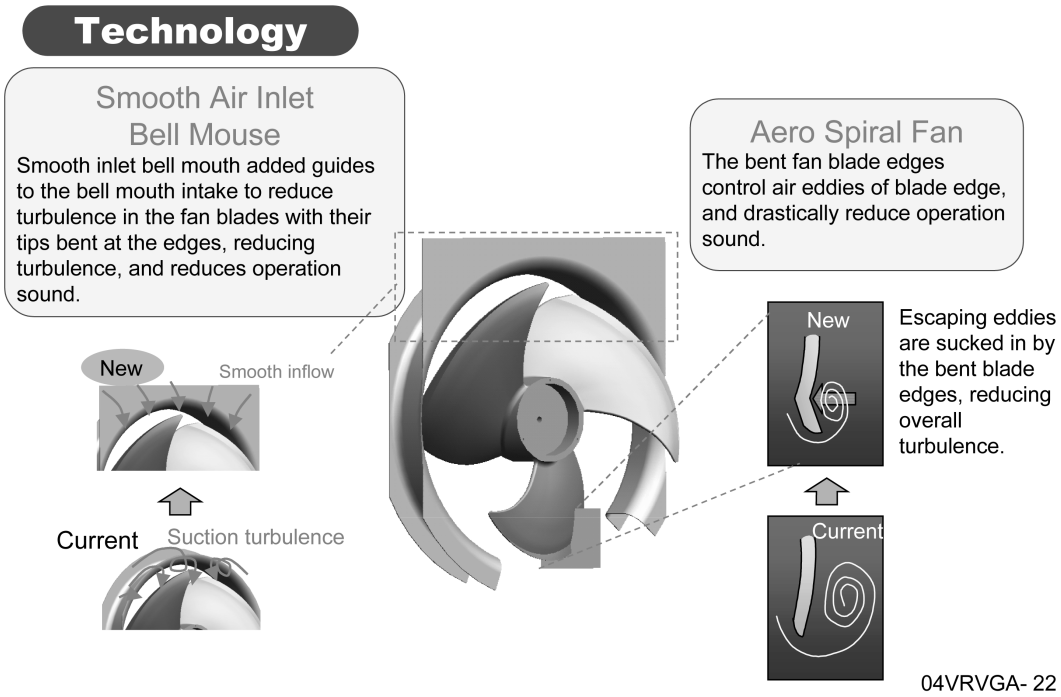
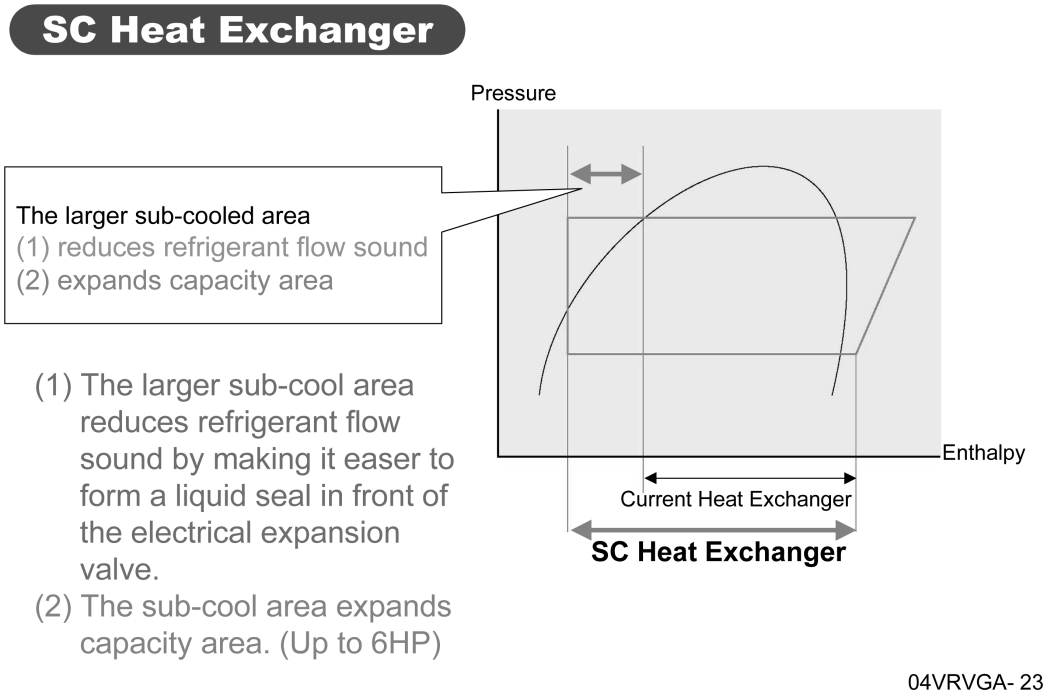
### 5.1.8 Silent Operation

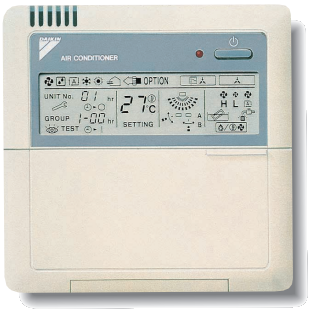


## 5.2 Control systems

# Individual Control Systems

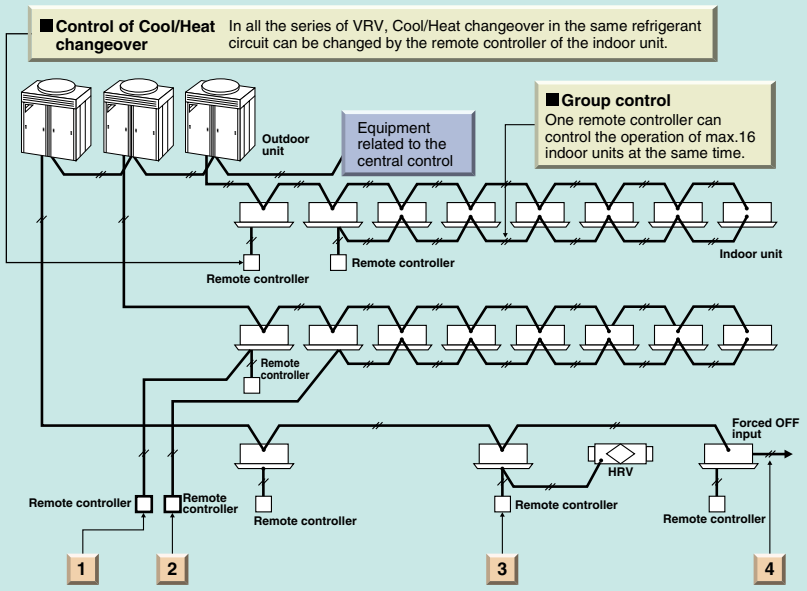
## Wired remote controller (Optional)



Wired remote controller

- Large liquid crystal screen displays complete operating status.
- Digital display lets you set temperature in 1˚C units.
- Lets you individually program by timer the respective times for operation start and stop within a maximum of 72 hours.
- Equipped with a thermostat sensor in the remote controller that makes possible more comfortable room temperature control.
- Monitors room temperature and preset temperature by microcomputer, and can select cool/heat operation mode automatically. (VRV System Heat Recovery series only)
- Enables you to select cool/heat/fan operation mode with the indoor remote controller of your choice without using the cool/heat selector. (Heat pump type)
- Constantly monitors malfunctions in the system for 80 items, and is equipped with a "self-diagnosis function" that lets you know by message immediately when a malfunction occurs.
- Lets you carry out various field settings by remote controller.

### The wired remote controller supports a wide range of control functions




**1 Control by two remote controller**

The indoor unit can be connected by the two remote controller, for example one in the room and the other one in the control room, which can control the operation of indoor unit freely. (The last command has a priority.) Of course, the group control by two remote controller is also possible.

**2 Remote control**

The wiring of remote controller can be extended to max.500m and it is possible to install the remote controllers for the different indoor units in one place.

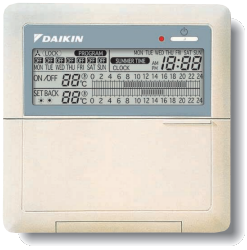
**3 Control for the combined operation**

The operation of HRV can be controlled by the remote controller of the indoor unit. Of course, the remote controller can display the time to clean the filter.

**4 Expansion of system control**

The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc.

## Set back time clock (Optional)



Set back time clock

- Connected to LCD wired remote controller (BRC type), this time clock can set 2 sets of on/off times in an increment of 30 minutes within a day. For each on/off setting a temperature setting is also possible.

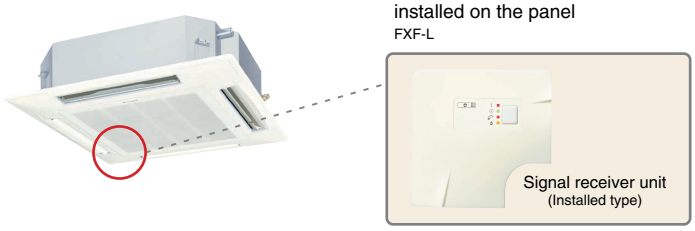
## Wireless remote controller (Optional)

Wireless remote controller

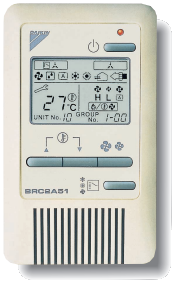
Signal receiver unit
(Separate type)

■ The same operation modes and settings as with wired remote controllers are possible.
■ A compact light receiving unit to be mounted into a wall or ceiling is included.
• A light receiving unit for a ceiling-mounted cassette (double-flow, multi-flow) type, ceiling-suspended type and wall-mounted type is mounted into the indoor unit.

Signal receiving unit can be installed on the panel
FXF-L




## Simple remote controller (Optional)


Exposed type

Concealed type
(For hotel use)

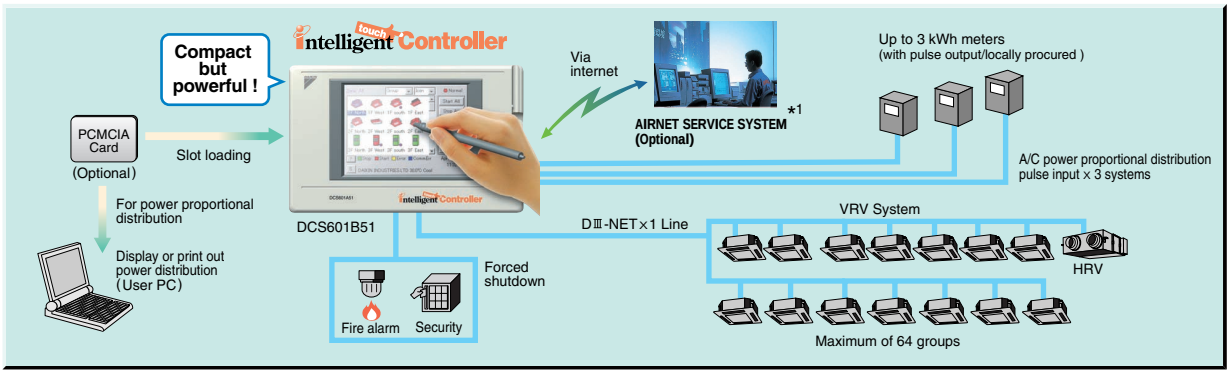
■ The remote controller has centralized its frequently used operation selectors and switches (on/off, operation mode, temperature setting and airflow volume), making itself suitable for use in hotel rooms or conference rooms.

The concealed-type remote controller smartly fits into a night table or console panel in a hotel room.

1

## 5.3 Advanced control systems

### intelligent touch Controller

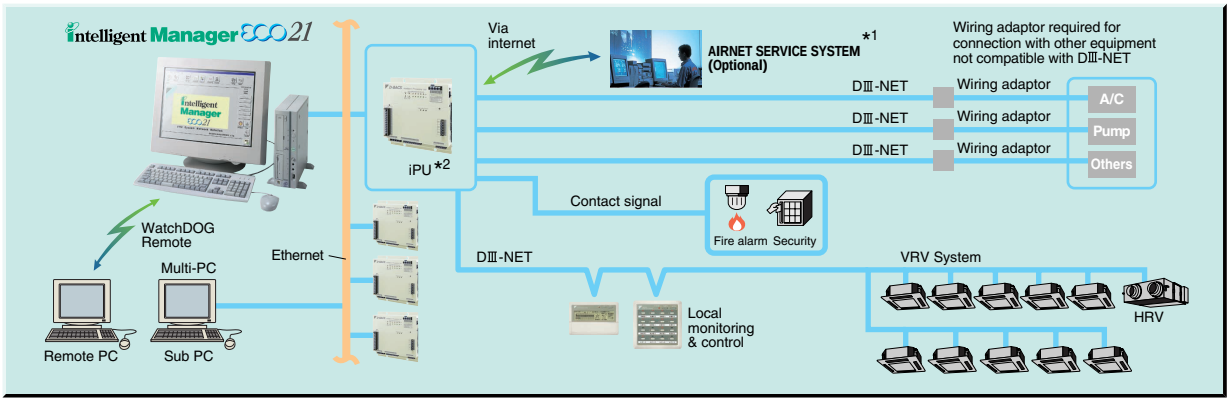


DCS601B51

**The all-in-one color LCD controller offers high functionality in the smallest of size**

- Color LCD touch panel icon display
- Small manageable size
- Simplified engineering
- Multi language (English, French, Italian, German, Spanish and Chinese)
- Yearly schedule
- P.P.D. (Power Proportinal Distribution function)
- AIRNET service (optional failure prediction)
- Auto heat/cool change-over
- Temperature limitation
- History of 300 actions

### intelligent Manager ECO 21

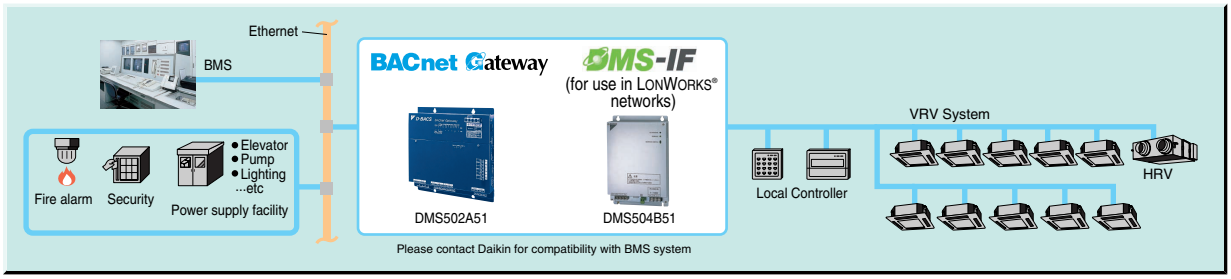


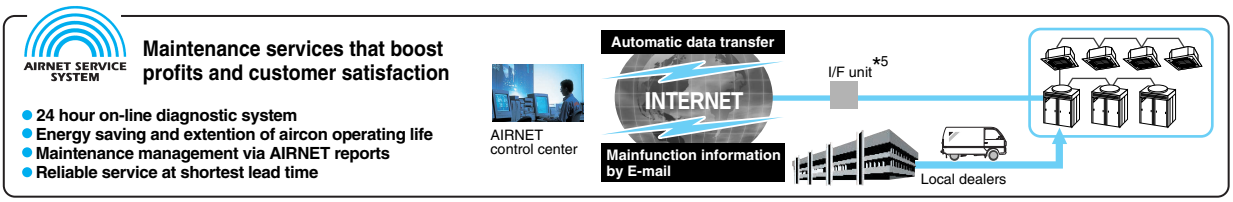
* Please refer to page 52 for applicable model names.

**Centralized control system for easy provision of effective control and monitoring of VRV system functions**

- Floor visual navigation
- Graphical report
- Remote intelligent manager
- Multi-PC access
- Watch dog function for remote error monitoring
- Power limit control
- Sliding temperature <optional (DAM101A51) required>
- Automatic heat/cool change-over
- ECO mode
- Temperature limitation

## BACnet™ and LONWORKS®




*1. There are restrictions in applicable areas and release times, therefore please consult us separately for details.
*2. Model name varies upon the system size.
*3. BACnet™ is a data communication protocol specified as an international standard by ASHRAE (American Society of Heating Refrigeration and Air Conditioning Engineers).
*4. LONWORKS® is a registered trade mark of Echelon Corporation.
*5. For an I/F unit, one of the following can be selected: ***Local Controller***, intelligent touch Controller, or intelligent Manager ECO 21.

**DMS502A51**
BACnet Gateway

**DMS504B51**
DMS-IF
(for use in LONWORKS® networks)

## Integrated control systems that recognize the trend of open control systems

■ Compatibility with BMS enhanced by utilizing the international communication standards, BACnet™ or LONWORKS®.

### DMS-IF (for use in LONWORKS® networks)

■ XIF file for confirming of specifications of the units.
■ Programmable Delay Start Up for the setting of delay time for starting communication when power is turned on. First in the industry.
■ Connectable up to 10 outdoor units and 64 indoor unit groups.

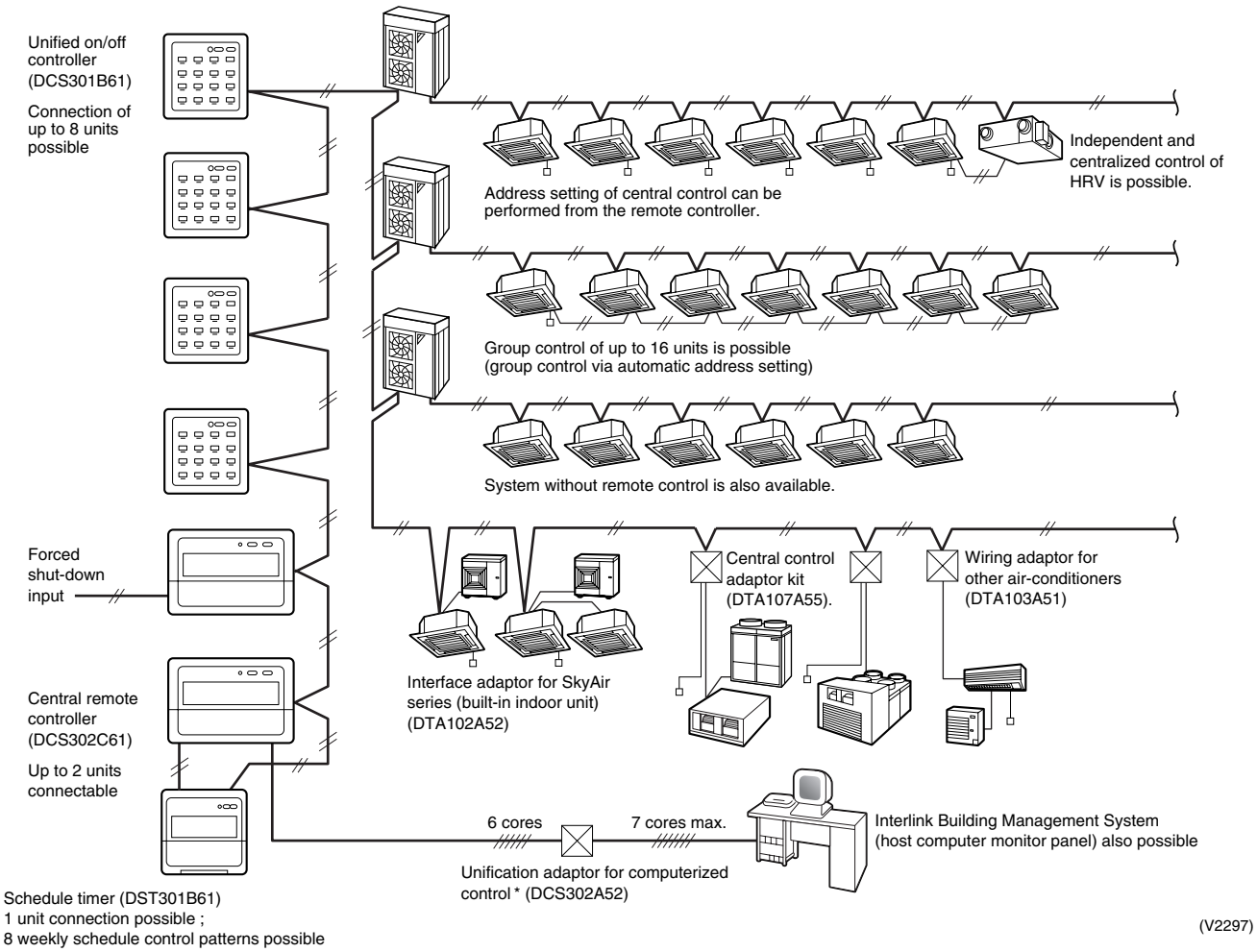
### BACnet Gateway

■ Conformance class 3 (ASHRAE 135–1995)
■ Standard BACnet Device B-ASC (ASHRAE 135–2001)
■ BACnet OPC server compatibility
■ BACnet/IP over Ethernet
■ Up to 40 outdoor units and 256 indoor uit groups on one gateway. (optional adaptor)

# 6. DAIKIN Building Air conditioning Control System (D-BACS)

## 6.1 System Configuration (Central Remote Controller)

- Up to 64 groups of indoor units (128 units) can be centrally controlled.
- Optional controllers for centralized control can be combined freely, and system can be designed in accordance with building scale and purpose.
- System integration with various air-conditioning peripheral equipment is easy.
- Wiring can be run up to a total length of 2 km, and adapts easily to large-scale system expansion.

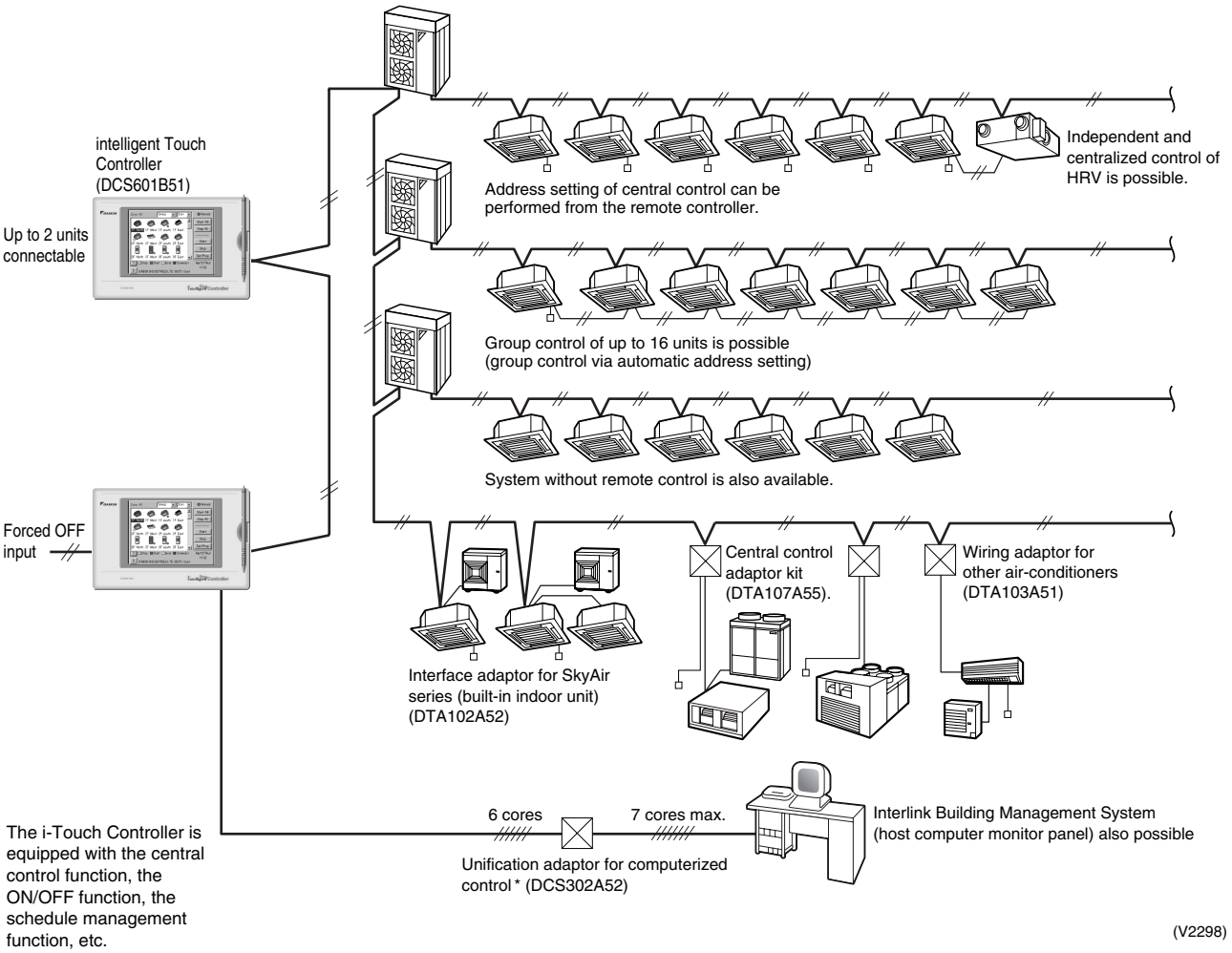



| No. | Part Name | Model No. | Function |
|---|---|---|---|
| 1 | Central Remote Controller | DCS302C61 | Up to 64 groups of indoor units (128 units) can be connected, and on/off, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to 2 sets into one system. |
| 2 | Unified ON/OFF Controller | DCS301B61 | Up to 16 groups of indoor units (128 units) can be turned, on/off individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers. |
| 3 | Schedule Timer | DST301B61 | Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units on/off twice per day. |
| 4 | Unification Adaptor for Computerized Control | ★ DCS302A52 | Used to combine host computer monitor panel and central remote controller (on/off, display). |
| 5 | Interface Adaptor for SkyAir Series | ★ DTA102A52 | Used to connect SkyAir series with optional controllers for centralized control. |
| 6 | Wiring Adaptor for Other Air-Conditioner | ★ DTA103A51 | Used to connect with other air-conditioners other than VRV system or SkyAir series with optional controllers for centralized control. |

**Note:**
Installation box for ★ adaptor must be procured on site.

## 6.2 System Configuration (intelligent-Touch Controller)

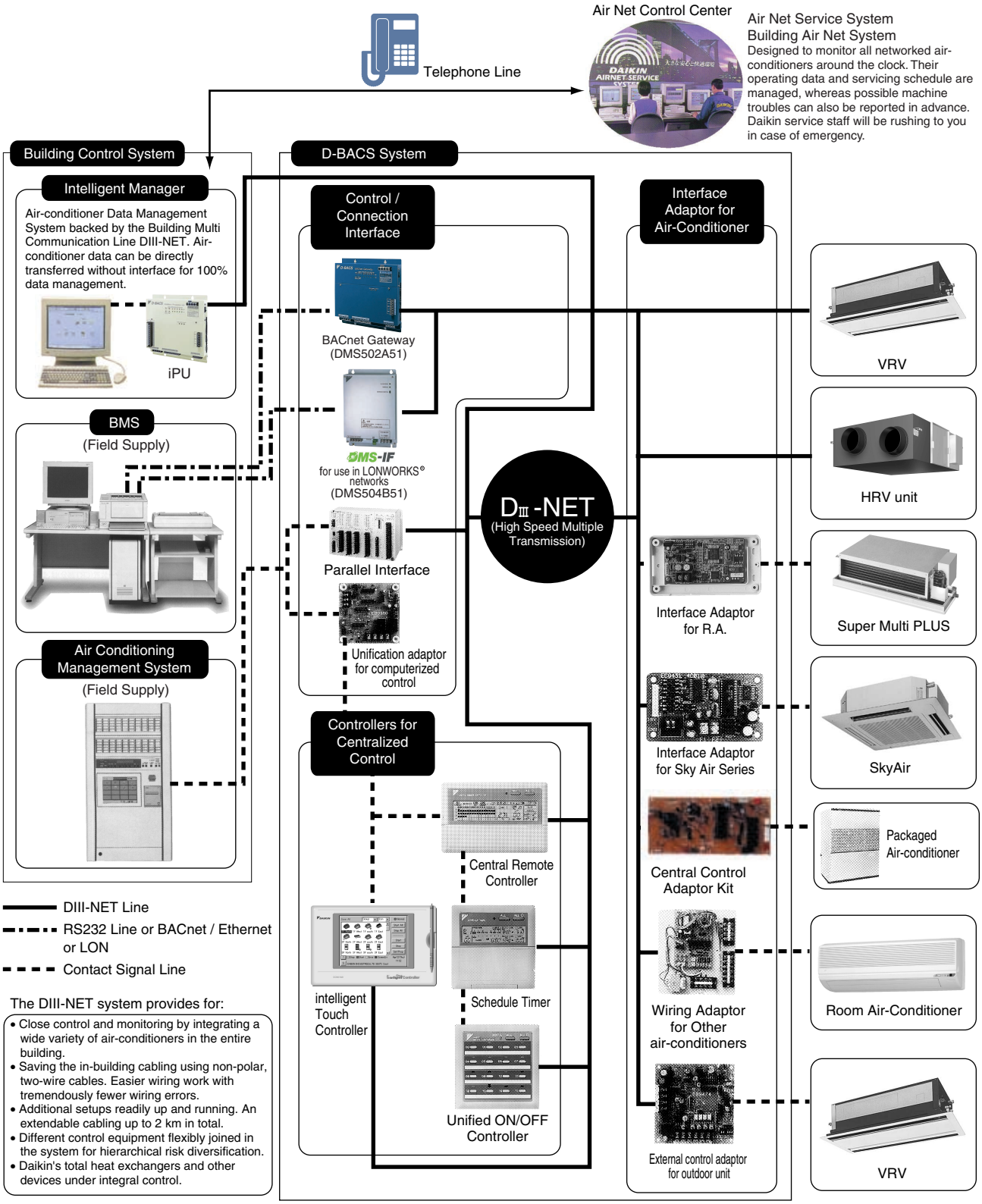
■ This controller is a central remote controller offering higher functions than those of the previous central remote controller DCS302C61, and easier operation.
Up to 64 groups of indoor units may be connected to 1 unit of this controller.




| No. | Part Name | Model No. | Function |
|---|---|---|---|
| 1 | intelligent Touch Controller | DCS601B51 | Up to 64 groups of indoor units (128 units) can be connected, and on/off, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to 2 sets into one system. |

## 6.3 System Configuration

**By combining the various control equipment flexibly, you can construct the sophisticated central control system to meet any size and design of the building.**




**Caution**

Control functions may be different from model to model.

For trouble-free control systems, it is advisable to discuss your projects at hand. Please contact us at your planning stage.

(V2299)

## System configuration

| No. | Part name | Model No. | Function |
|---|---|---|---|
| 1 | Central remote controller | DCS302C61 | ■ Up to 64 groups of indoor units (128 units)can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to "2" controllers in one system. |
| 2 | Unified ON/OFF controller | DCS301B61 | ■ Up to 16 groups of indoor units (128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers. |
| 3 | Schedule timer | DST301B61 | ■ Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day. |
| 4 | Unification adaptor for computerized control | ★DCS302A52 | ■ Interface between the central monitoring board and central control units |
| 5 | Interface adaptor for SkyAir-series | ★DTA102A52 | ■ Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System.<br>■ To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled. |
| 6 | Central control adaptor kit | ★DTA107A55 | |
| 7 | Wiring adaptor for other air-conditioner | ★DTA103A51 | |
| 8 | DIII-NET<br>Expander adaptor | DTA109A51 | ■ Up to 1,024 units can be centrally controlled in 64 different groups.<br>■ Wiring restrictions (max. length : 1,000m, total wiring length : 2,000m, max. number of branches : 16) apply to each adaptor. |
| 9 | Mounting plate | KRP4A92 | ■ Fixing plate for DTA109A51 |

Note: Installation box for ★ adaptor must be procured on site.

## Building management system

| No. | Part name | | | Model No. | Function |
|---|---|---|---|---|---|
| 1 | intelligent Touch Controller | | Without PPD | DCS601B51 | Air-Conditioning management system that can be controlled by a compact all-in-one unit.<br>PPD: Power Proportional Distribution function<br>New Functions: • Auto cool/heat change-over •Temperature limitation<br>• Multilingual (English, French, German, Spanish, Italian, or Chinese) |
| | | | With PPD | DCS601B51<br>DCS002B51 | |
| 1-1 | Electrical box with earth terminal (4blocks) | | | KJB411A | ■ Wall embedded switch box. |
| 2 | intelligent Manager ECO 21 | Number of units to be connected | 128 units | DAM602A52 | Air conditioner management system (featuring minimized engineering) that can be controlled by personal computers. |
| | | | 192 units | DAM602A53 | |
| | | | 256 units | DAM602A51 | |
| | | | 512 units | DAM602A51x2 | |
| | | | 768 units | DAM602A51x3 | |
| | | | 1024 units | DAM602A51x4 | |
| 2-1 | Communication Line | Optional DIII Ai unit | | DAM101A51 | Analog input for "sliding temperature" function (to reduce cold shock) for intelligent Manager ECO21. |
| 3 | | BACnet Gateway | | DMS502A51 | Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet communications. |
| 3-1 | | Optional DIII board | | DAM411A1 | Expansion kit, installed on the BACnet Gateway (DMS502A51), to provide 3 more DIII-NET communication ports. Not usable independently. |
| 3-2 | | Optional Di board | | DAM412A1 | Expansion kit, installed on the BACnet Gateway (DMS502A51), to provide 16 more wattmeter pulse input points. Not usable independently. |
| 4 | | DMS-IF<br>(for use in LON WORKS® networks) | | DMS504B51 | Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LON WORKS® communication. |
| 5 | Contact/analog signal | Parallel interface | Basic unit | DPF201A51 | ■ Enables ON/OFF command, operation and display of malfunction; can be used in combination with up to 4 units. |
| 6 | | | Temperature measurement units | DPF201A52 | ■ Enables temperature measurement output for 4 groups; 0-5VDC. |
| 7 | | | Temperature setting units | DPF201A53 | ■ Enables temperature setting input for 16 groups; 0-5VDC. |
| 8 | | Unification adaptor for computerized control | | DCS302A52 | ■ Interface between the central monitoring board and central control units |
| 9-1 | | Wiring adaptor for electrical appendices (1) | | KRP2A61, 62 | ■ Simultaneously controls air-conditioning control computer and up to 64 groups of indoor units. |
| 9-2 | | Wiring adaptor for electrical appendices (2) | | KRP4A51-53 | ■ To control the group of indoor units collectively, which are connected by the transmission wiring of remote controller. |
| 10 | | External control adaptor for outdoor unit (Must be installed on indoor units.) | | DTA104A61, 62 | ■ Cooling/Heating mode change over. Demand control and Low noise control are available between the plural outdoor units. |

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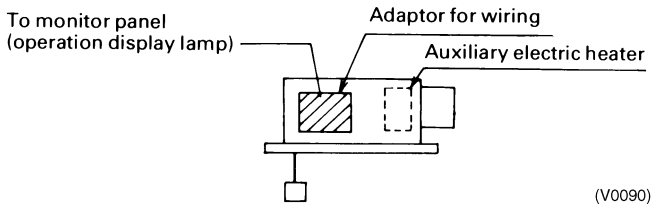
## 6.4 Various PC Boards

Besides the central control system and building control system of the previous page, you can enhance control function by mounting various PC boards on indoor and outdoor units.

■ **Adaptor for Wiring**

The model of adaptor for wiring depends on the type of indoor unit.




| Part Name | Model No. | Function |
|---|---|---|
| Adaptor for Wiring | KRP1B61/59/3 | PC board when equipped with auxiliary electric heater or humidifier in the indoor unit. |

# 7. Control System

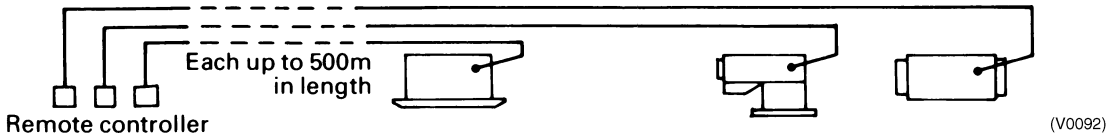
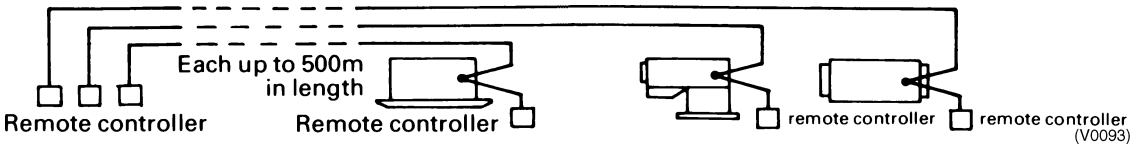
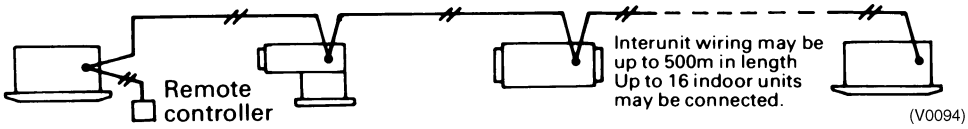
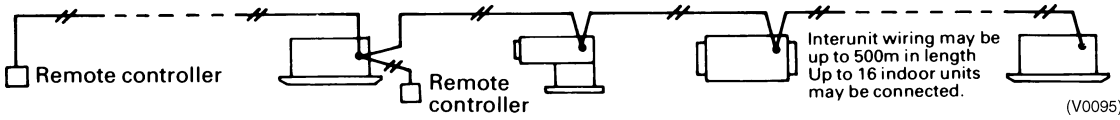
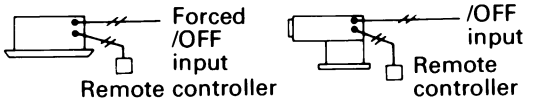
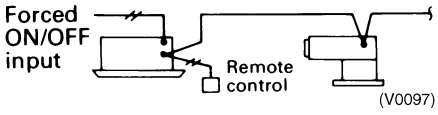
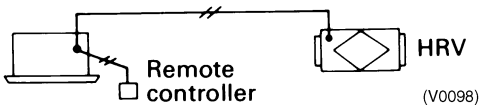
## 7.1 Various Control by Liquid Crystal Remote Controller

For more effective localized environmental control Daikin offers various control systems such as single or double remote control or centralized control. This enables the construction of a variety of operational control systems which can be adapted for various uses from remote control to building automation.

| Control Method | | Objective / Use | Unit Name and Model | Function | Standard Number of Units | |
|---|---|---|---|---|---|---|
| Control by Remote Controller | Local operation of remote controller | Example of typical use | **BRC1A61**<br>**BRC1A62**<br> <br>★2 **BRC2A51**<br> <br>Connected to indoor units<br>■ For group control it is connected to 1 unit out of the group<br>■ In the case of control by 2 remote controllers both controllers are connected to the indoor unit | **Operational functions**<br>■ Start/Stop (ON/OFF)<br>■ Operation Mode Selection<br>■ Temperature setting<br>■ Timer setting (Settings in units of 1 hour up to a maximum of 72 hours)<br>■ Air flow setting<br>■ Air flow direction adjustment (Swing flap) BRC1A61 only<br>**Indication function**<br>■ Operating display<br>■ Program dry function display<br>■ Defrost/Hot start display<br>■ Filter sign<br>■ Temperature setting display<br>■ Timer display<br>■ Air flow display<br>■ Abnormal operation display<br>★ In case of group control all the indoor units in the system are set to the same value and each unit is controlled individually by its internal thermostat. (Not by the thermostat equipped in remote controller) In commond case of double remote control the last command priority. (Selection between main and sub controller is essential) | 1 remote controller controls 1 indoor unit | |
| | Remote operation of remote controller | For control from distant place | | | | |
| | 2 remote control | For control from 2 places (distant or local) | | | 2 remote controllers control 1 indoor unit | |
| | Group control ★1 | For the control of plural indoor units on a floor at the same time | | | 1 remote controller controls up to 16 indoor units simultaneously | |
| | ★1<br>Group control by 2 remote controllers | For above control from distant place. | | | 2 remote controllers control up to 16 indoor units from 2 different places simultaneously | |
| | Forced OFF command from outside | Forced OFF for forgetting to turn equipment off, or in times of an emergency. | | ■ Forcibly stops indoor unit operation by command from outside.<br>■ During remote controller group control, input a command from outside to any one of the indoor units. | Same as the number of units controlled by remote controller | |
| | Combining control by remote controller | Operation of other equipment combined with the operation of indoor unit | | ■ Operates HRV in accordance with indoor unit operation.<br>■ In case of group control the thermostat equipped in remote controller is not available. | Same as the number of units controlled by remote controller | |

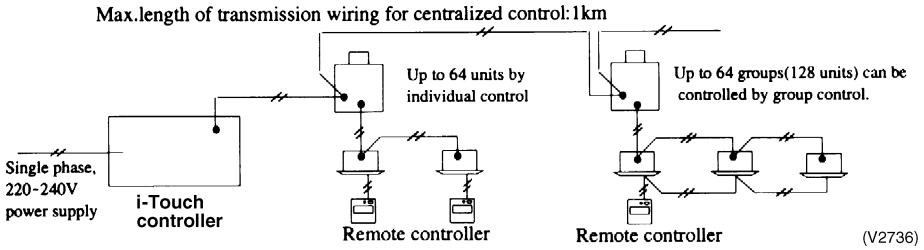
★1 In case of group control, the remote controller used as master control must be selected with auto-swing function (BRC1A61). When the group has cassette (FXC (Q)), FXF (Q)) or ceiling suspended (FXH (Q)) or cassette corner (FXK (Q)) or Wall mounted (FXA (Q)) models.

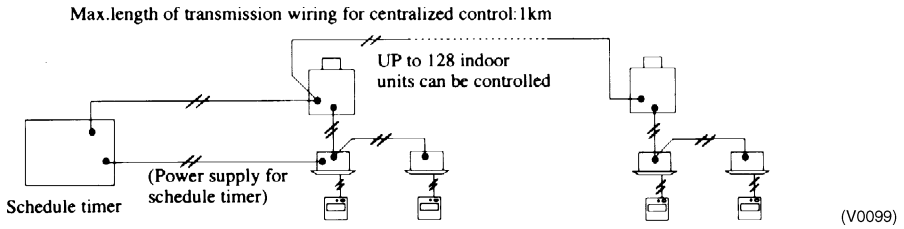
★2 In case of using BRC2A51 (S-Remote Controller) to Heat Recovery Series, be sure not to use this independently. Use with other remote controllers (BRC1A51·52, BRC1A61·62 or KRC19-26A or DCS302A51).

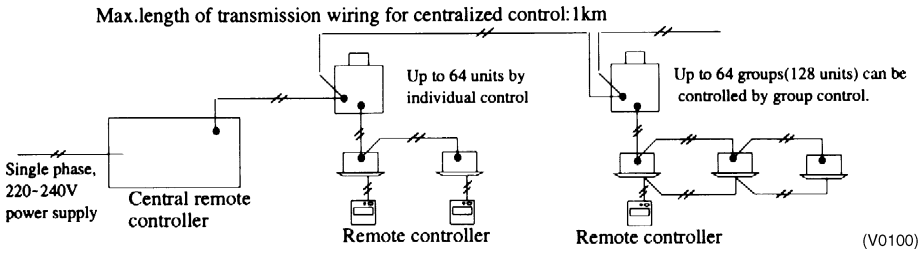
| | Outline of System |
|---|---|
| | |
| |  |
| |  |
| |  |
| |  |
| | ● For local operation of remote controller<br>  <br>● For group control<br>  |
| | ● For HRV system<br>  |

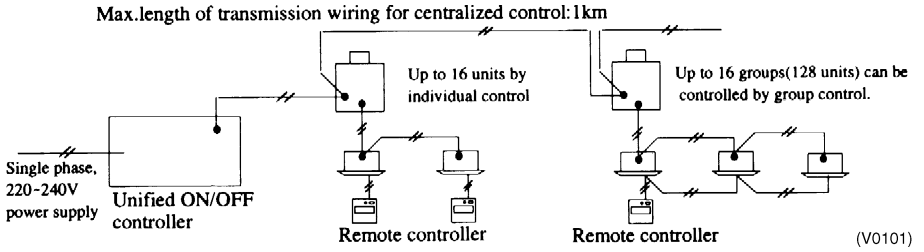
| Control Method | | Objective / Use | Unit Name and Model | Function | Standard Number of Units | |
|---|---|---|---|---|---|---|
| Central Control | intelligent Touch Controller | For control all indoor units just like remote controller | **DCS601B51** | ■ Adds various functions other than the functions of existing central remote controller.<br>■ Scheduled operation and function to distribute electricity proportionally.<br>■ Simple handling through a large sized liquid crystal display.<br>■ Adopts a touch-panel<br>■ Twin centralized control function<br>■ AIR-NET Service (optional-failure prediction)<br>■ Auto Heat/Cool Change Over<br>■ Temperature Limitation | Controls up to 64 groups (Max. 128 indoor units) with one i-touch Controller. | |
| | Schedule timer | For carrying out weekly schedule operation by 1-minute units | **DST301B61** | ■ ON/OFF time can be set by units of day, hour and minute; ON/OFF pattern can be set by time zone of twice per day in accordance with application. | Simultaneously controls 64 groups with one schedule timer. Max. 128 units | |
| | Central remote controller | For control all indoor units just like remote controller | **DCS302C61** | ■ Double central control function<br>■ Function of liquid crystal remote controller can be controlled individually for each zone of the indoor unit.<br>■ Individual/unified operation<br>■ Up to 8 patterns can be set for operation controlled by programmed time when used in combination with schedule timer.<br>■ Temperature setting for each zone<br>■ Control operation for each room during centralized control<br>■ Remote controller operation rejected command | Controls up to 64 groups of indoor units with one central remote controller. Max. 128 units | |
| | Unified ON/OFF controller | For ON/OFF operate all indoor units just like remote controller | **DCS301B61** | ■ Double central control function<br>■ Indoor unit ON/OFF control<br>■ Individual/unified operation<br>■ Remote controller operation rejected command (Central remote controller given priority when used in combination with central remote controller.)<br>■ Sequential start function | Controls up to 16 groups of indoor units with one unified ON/OFF controller. Max. 128 units | |
| | ■ Schedule timer<br>■ Central remote controller<br>■ Unified ON/ OFF controller | For controlling all indoor units from one place | **DST301B61** **DCS302C61** **DCS301B61** | ■ Respective functions of schedule timer, central remote controller and unified ON/OFF controller are possible. (Control mode of central remote controller is given priority for operation of remote controller for indoor unit.)<br>■ Sequential start function | Controls up to 128 groups (Max. 128 indoor units) with one schedule timer, two central remote controller and eight unified ON/OFF controllers. | |
| | Adaptor for connection with optional controllers for centralized control | | ■ Unification adaptor for computerized control **DCS302A52**<br>■ Interface adaptor for SkyAir series **DTA102A52**<br>■ Wiring adaptor for other air conditioners **DTA103A51** | ■ Unification adaptor for computerized control allows you to simultaneously turn indoor units connected to the central remote controller on or off or display at the central monitor panel, etc.<br>■ Interface adaptor for SkyAir series, wiring adaptor for other air conditioners and wiring adaptor for 'H' indoor unit are for connection of optional controllers for centralized control. | ■ Simultaneously controls by one unification adaptor for computerized control, all indoor units connected to a central remote controller.<br>■ Controls one indoor unit by one interface adaptor for SkyAir series, wiring adaptor for other air conditioners, and wiring adaptor for 'G(J)' indoor unit. | |

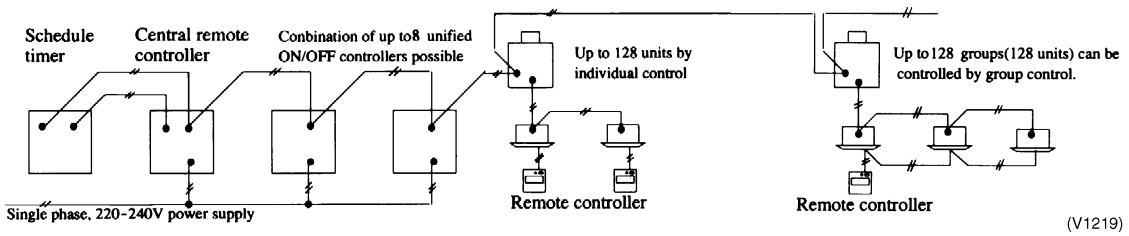
Outline of System

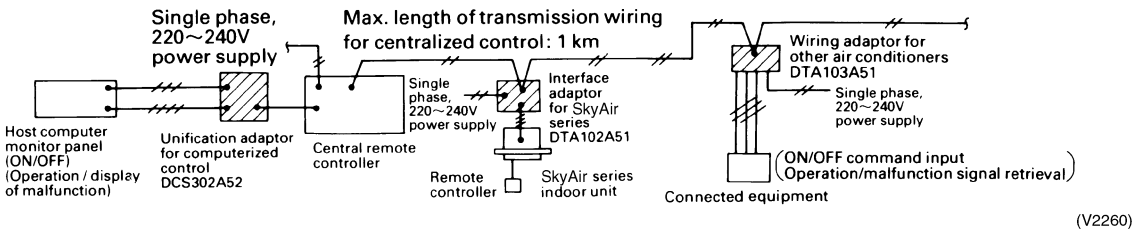


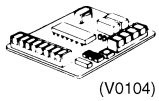
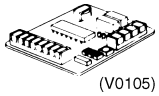
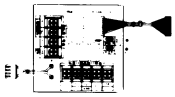



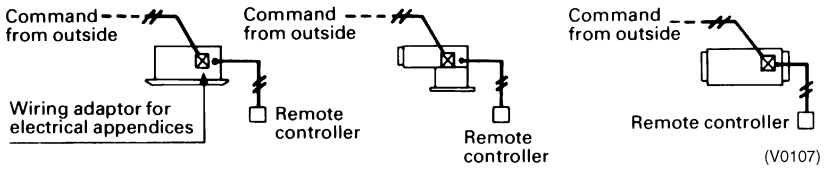



| Control Method | | Objective / Use | Unit Name and Model | Function | Standard Number of Controllers | |
|---|---|---|---|---|---|---|
| Remote Control | Wiring adaptor for electrical appendices (2) | For control by operation command from building control room | ■ With remote temperature setting<br>  <br>(V0104)<br>**KRP4A51**<br>**KRP4A52**<br>**KRP4A53**<br>Built into indoor unit | ■ Normally open or momentary open type contactor<br>■ 12~24 VDC or no-voltage<br>■ Various control methods available by mode select switch<br>■ Voltage, no-voltage selector switch<br>■ Alarm and operation display signal (no-voltage)<br>■ Selector switch of zone/individual of alarm display<br>■ Remote temperature setting (resistance input of 0~135Ω)<br>■ Selector switch for remote controller temperature setting enable/inhibit<br><br>★ For group unified control, the setting becomes the same for all connected indoor units, and each indoor unit is controlled individually by built-in thermostat.<br><br>★ For zone unified control, the setting becomes the same for all connected indoor units, and each indoor unit is controlled individually by built-in thermostat. | 1 PC board controls 1 indoor unit.<br><br>1 PC board simultaneously controls 1 group of indoor units (max. 16 units). | |
| | Wiring adaptor for electrical appendices (1) | | ■ With remote temperature setting<br>  <br>(V0105)<br>**KRP2A61**<br>**KRP2A62**<br>Built into indoor unit | | 1 PC board simultaneously controls 64 groups (total of 128 units). | |
| Wiring Modification | Adaptor for wiring | When controlling operation with optional accessories added inside indoor units, the status is displayed outside. |  <br>(V0106)<br>Built into indoor unit **KRP1B61** | ■ Required when electric heater optional accessory has been added.<br>■ Operation display signal and compressor operation signal are supplied. | 1 adaptor controls the electric heater. | |
| Building Control System | | Building control computer, air-conditioning control computer and control system for air-conditioning are carried out by communication and contact signal. | ■ BACnet Gateway<br>**DMS502A51**<br>■ Optional DIII board<br>**DAM411A1**<br>■ Optional Di Board<br>**DAM412A1**<br>■ Parallel interface<br>**DPF201A51, 52, 53**<br>■ DMS-IF<br>**DMS504B51** | ■ BACnet Gateway<br>Interface unit to allow communications between VRV and BMS.<br><br>■ Parallel interface<br>Carries out operation and monitoring function of each indoor unit by contact and analog signal.<br><br>■ DMS-IF<br>The LON Gateway functions as the interface for a building monitoring system and cannot be w-installed on the DIII-NET along with following equipment / devices that have similar functions. | BACnet Gateway :<br>Up to 256 indoor units (256groups)<br>When the option DIII board is used<br><br>Parallel Interface, DMS-IF :<br>Up to 64 indoor units (64 groups) | |
| Scheduled Control | Set-back Time Clock | Desired Weekly Scheduled Operation of ON/ OFF and Temperature's Set-back | BRC15A61<br> | **Control function**<br>■ Effective/ineffective control on the program<br>■ Daylight-saving time<br>■ The present time adjustment<br>■ Weekly operation time program (two times a day in max. frequency by a unit of 30 min.)<br>■ Weekly set-back operation time program (two times a day in max. frequency by a unit of 30 min.), etc.<br><br>**Display function**<br>■ Effective/ineffective control on the program<br>■ The present time and the week day<br>■ Daylight-saving time setting<br>■ Setting holidays in a week<br>■ Set-back time setting for a day. etc. | One indoor unit control by one set-back time clock<br><br>Max. 16 groups under simultaneous control by one set-back time clock | |

Outline of System

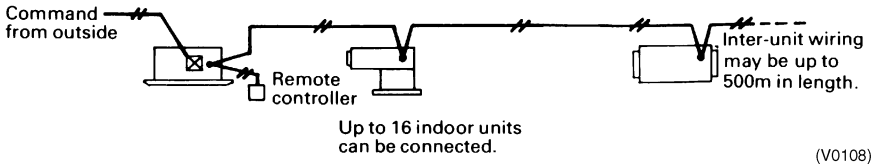
■ Individual Control (Controls Indoor Units Individually.)

● Individual control (Controls indoor units individually.)



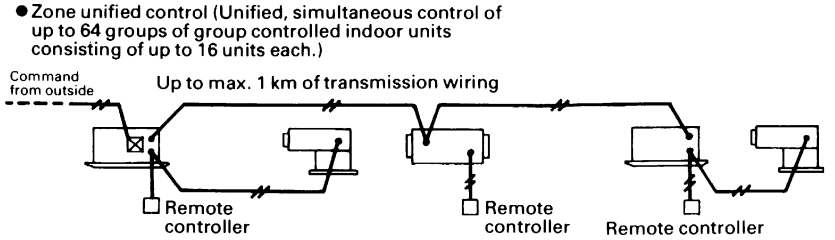

■ Group Unified Control (Controls group controlled indoor units all at once and simultaneously.)

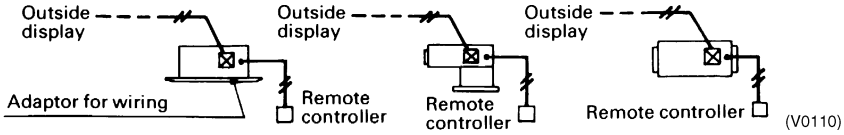
● Group unified control (Controls group controlled indoor units all at once and simultaneously.)




■ Zone Unified Control (Unified, simultaneous control of up to 64 groups of group controlled indoor units consisting of up to 16 units each.)

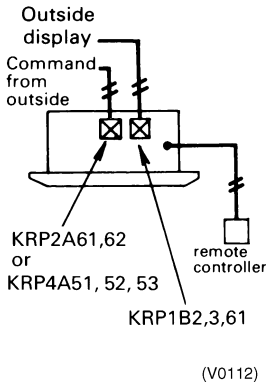
● Zone unified control (Unified, simultaneous control of up to 64 groups of group controlled indoor units consisting of up to 16 units each.)

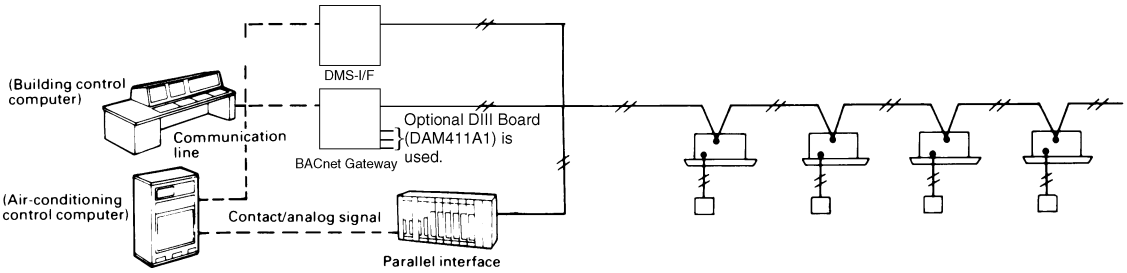


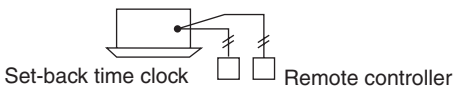



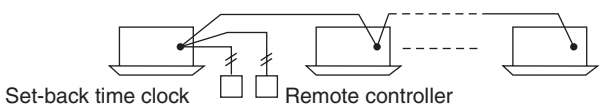

■ KRP1B61,2,3 KRP2A61,62 and KRP4A51,52,53 can be built-in together into the indoor units

● KRP1B61,2,3, KRP2A61,62 and KRP4A51, 52, 53 can be built-in together into the indoor units




★ Be sure to provide a master remote controller.
This scheduled operation cannot be used in both cases at control by two remote controllers and at the connection of a group remote control adaptor.

## 7.2 Building Control System Introduction

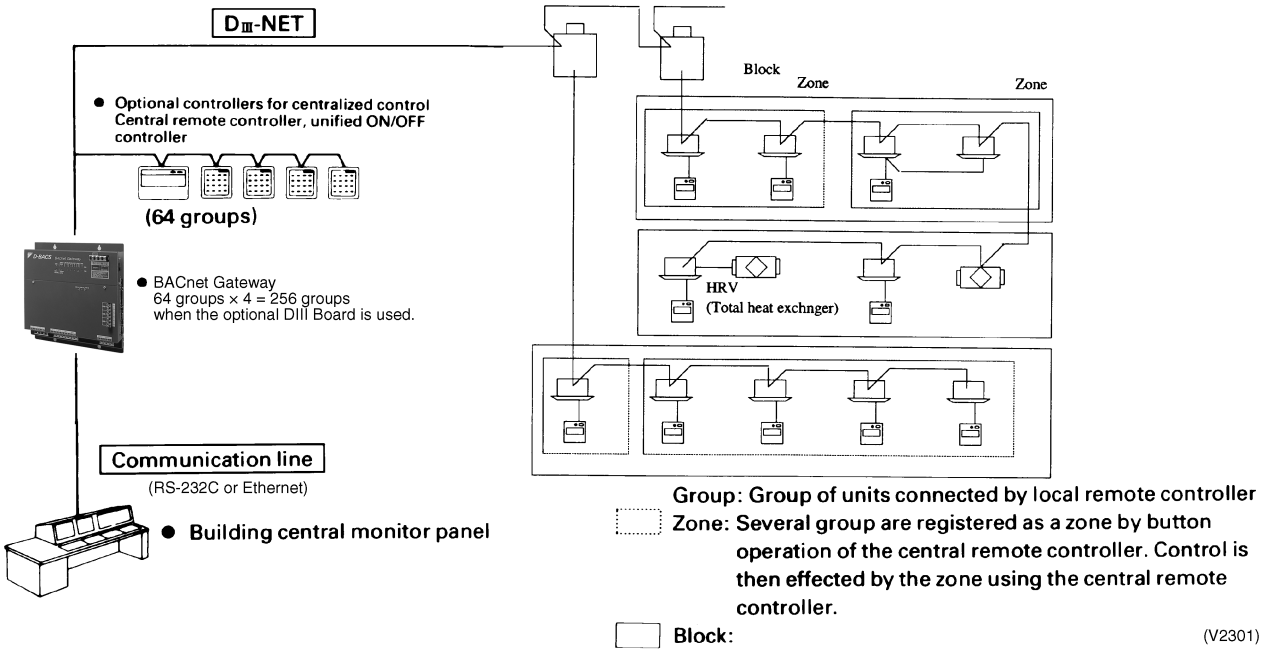
High-speed transmission type air-conditioning control system D-BACS (DAIKIN Building Air-conditioning Control System) networks up to 64 groups of indoor units (128 units). There is a complete line up of variegated control equipment for D-BACS, such as parallel interface, or a master station that can directly access a building control computer via a communication line. Changing control function to a component configuration makes D-BACS a central control system that can be flexibly combined with other equipment, which can respond to various air-conditioning control needs such as application, conditions and scale.

### 7.2.1 BACnet Gateway

This system sets the control configuration and controls air-conditioning equipment, monitors system status and possesses a system backup function.

■ **Control configuration setting function for air-conditioning equipment**

System Outline




| Name | Functions |
|---|---|
| BACnet Gateway (DMS502A51) | Interface unit to allow communications between VRV and BMS. BMS ready to run and monitor the air-conditioning systems through RS232C or BACnet communications. Up to 64 groups. |
| Optional DIII board (DAM411A1) | Expansion kit, installed on the BACnet Gateway (DMS502A51), to provide 3 more DIII-NET communication ports. Not usable independently. Up to 256 groups. |
| Optional Di Board (DAM412A1) | Expansion kit, installed on the BACnet Gateway (DMS502A51), to provide 16 more wattmeter pulse input points. Not usable independently. |
| Central Remote Controller (DCS302B61) | Functions as a backup if the building control systems fails. |
| Unified On/Off Controller (DCS301B61) | Central control panel for simple operation by ON/OFF switch and LED display. Also functions as a backup just as with the central remote controller. |
| Local Remote Controller (BRC1A61/62) | Provided in each room. Used for operating, setting and monitoring air-conditioning equipment. |

**Note:**

1. A group consists of several indoor units that can be started or stopped simultaneously. As shown in the figure above, a group consists of several indoor units wired to the same remote controller. For units without a remote controller, each unit is treated as a group.
2. Several groups are registered as a zone with the central remote controller. By pushing 1 button of the central remote controller, all groups within the same zone can be turned on or off simultaneously.

Building management 1 system controls and monitors air-conditioning equipment by the block. A block consists of 1 or more groups (max. 16), and can be set without regard for the zones mentioned above. You must, however, take the following things into consideration.

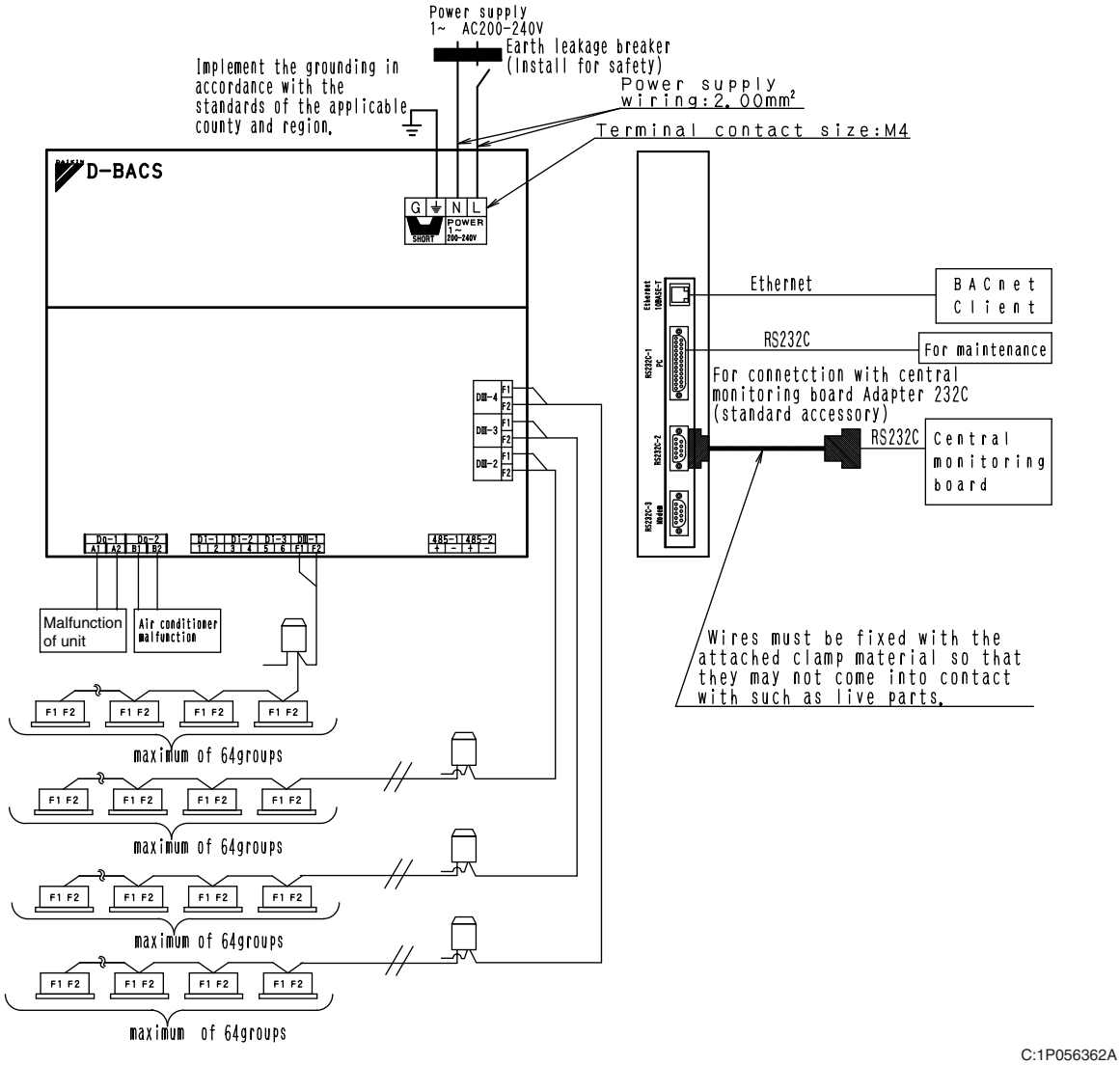
(1) If the air-conditioning mode is switched, as a premise, permission for cool/heat selection for indoor units (by remote controller or central remote controller) must be designated within the program.

(2) Program status is basically monitored by observing the data of a representative unit. The contents which can be monitored are therefore restricted if the representative unit is designated as an adaptor, etc.

Block registration is accomplished through signal transmission from the building control system to the cooler-

conditioning system. Because configuration can be changed while receiving power even after operating, maintenance from the maker of the air-conditioning equipment is not required when changing the configuration.

## 7.2.2 Wiring Diagram

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## 7.2.3 Air-Conditioning Equipment and possible Functions

| Function | Air-conditioner devices | | | | Remarks |
|---|---|---|---|---|---|
| | VRV Inverter Series | Interface Adaptor for SkyAir Series (SA Heat Pump) | HRV | Wiring Adaptor for Other Air-Conditioners | |
| Start/Stop Control and Monitoring | ○ | ○ | ○ | ○ | |
| Air-Conditioner Error Notification | ○ | ○ | ○ | ○ | |
| Indoor Air Temperature Monitoring | ○ | ○ | × | × | |
| Temperature Setting and Monitoring | ○ | ○ | × | × | |
| Air-Conditioning Mode Setting and Monitoring | ○ | ○ | × | × | Air-conditioning mode switching is effective only for indoor units for which cool/heat selection is permitted. |
| ★1 Remote Controller Mode Setting and Monitoring | ○ | ○ | ○ | × | |
| Filter Sign Monitoring and Reset | ○ | ○ | ○ | × | |
| Cumulative Power Value Monitoring | ○ | × | × | ○ | |
| Thermostat Status Monitoring | ○ | ○ | × | × | |
| Compressor Operation Status Monitoring | ○ | ○ | × | × | |
| Indoor Fan Operation Status Monitoring | ○ | ○ | × | × | |
| Heater Operation Status Monitoring | ○ | ○ | × | × | |
| Air Direction Setting and Monitoring | ○ | ○ | × | × | |
| Air Flow Rate Setting and Monitoring | ○ | ○ | × | × | |
| Forced Thermostat Off Setting and Monitoring | ○ ★2 | ○ | × | × | |
| Forced Thermostat On Setting and Monitoring | ○ ★2 | ○ ★2 | × | × | |
| Energy Efficiency Command (Setting Temperature Shift) | ○ | × | × | × | |

**Note:**

★1. Remote controller mode is for acceptance or rejection of on/off operation, temperature setting and air-conditioning mode setting by remote controller.

★2. If set locally, the host is not notified. Thus, monitoring cannot be accomplished from the host.

3. The meaning of ○, × are as follows
   ○ : Possible Functions
   × : Impossible Functions

## 7.2.4 Central Control Equipment Combinations

The table below shows which combinations of central control equipment are possible and which are not.

| | Central Remote Controller | Unified On/ Off Controller | Schedule Timer | Wiring Adaptor for Electrical Appendices | Parallel Interface | BACnet Gateway | intelligent Manager |
|---|---|---|---|---|---|---|---|
| Central Remote Controller | — ★4 | ○ | ○ | × | ○ | ○ | ○ |
| Unified On/Off Controller | ○ | — ★3 | ○ | × | ○ | ○ | ○ |
| Schedule Timer ★1 | ○ | ○ | — | × | × | × | × |
| Wiring Adaptor for Electrical Appendices | × | × | × | — | × | × | × |
| Parallel Interface | ○ | ○ | × | × | — ★2 | × | × |
| BACnet Gateway | ○ | ○ | × | × | × | — | × |
| intelligent Manager | ○ | ○ | × | × | × | × | — |

★1 The schedule timer cannot be used by itself. Use in combination with the central remote controller or unified on/ off controller.

★2 May be used in combination if control range differs (up to 4 units).

★3 May be used in combination if control range differs
(up to 8 units: Up to 16 units in the double central control mode).

★4 May be used in combination if control range differs
(up to 2 units: Up to 4 units in the double central control mode).

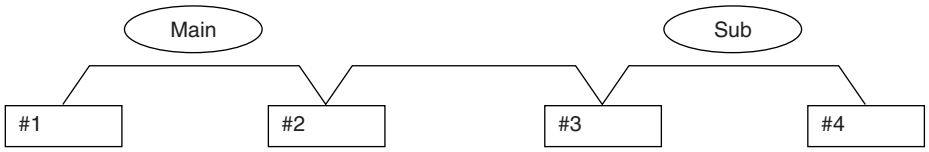
5 The meaning of ○, ×, — are as follows
○ : Possible Functions
× : Impossible Functions
— : No Functions

- If using in combination with central control equipment, the relation between them is last command priority.
- If using in combination with central control equipment, the remote control mode is decided by the setting of the highest priority item in the priority rank shown in the table below.

**Priority Ranking of Remote Control Mode Settings**

| | BACnet Gateway | Parallel Interface | Central Remote Controller | intelligent Touch Controller | Unified On/Off Controller | Schedule Timer |
|---|---|---|---|---|---|---|
| Priority Ranking | 1 | 1 | 2 | 2 | 3 | 4 |

## 7.2.5 Intelligent Touch Controller and Central Control Equipments Combinations

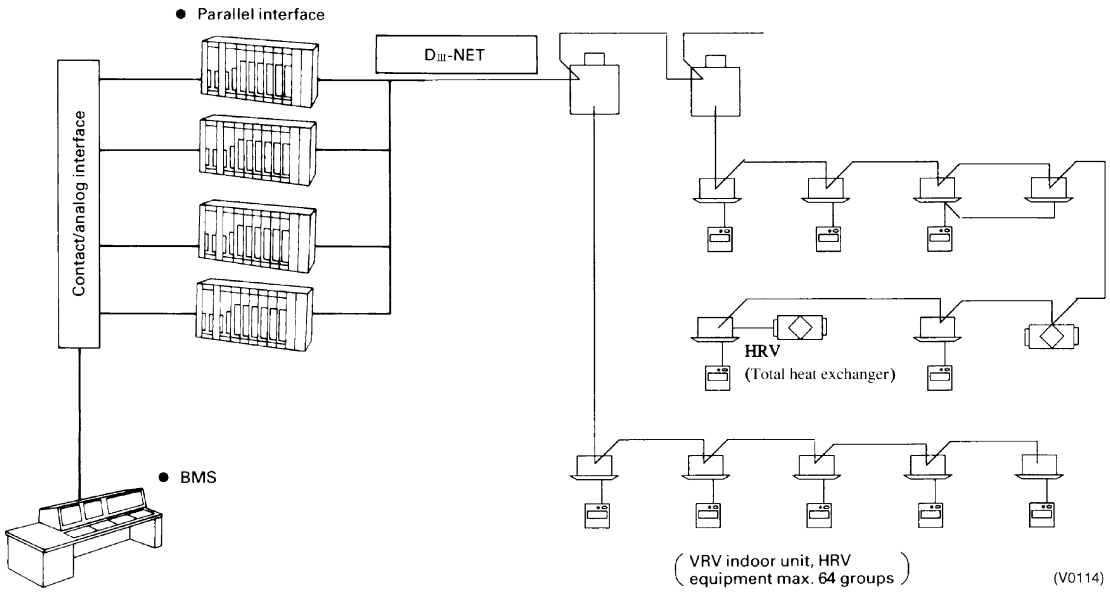



| Combination | #1 | | #2 | | #3 | | #4 | |
|---|---|---|---|---|---|---|---|---|
| | 1-00~4-15 | Main/ Sub | 5-00~5-15 | Main/ Sub | 1-00~4-15 | Main/ Sub | 5-00~5-15 | Main/ Sub |
| Impossible | intelligent Touch Controller | Main | intelligent Touch Controller | Main | intelligent Touch Controller | Sub | intelligent Touch Controller | Sub |
| Impossible | intelligent Touch Controller | Main | intelligent Touch Controller | Main | intelligent Touch Controller | Sub | Central Remote Controller | Sub |
| Impossible | intelligent Touch Controller | Main | intelligent Touch Controller | Main | Central Remote Controller | Sub | intelligent Touch Controller | Sub |
| Impossible | intelligent Touch Controller | Main | intelligent Touch Controller | Main | Central Remote Controller | Sub | Central Remote Controller | Sub |
| Impossible | intelligent Touch Controller | Main | Central Remote Controller | Main | intelligent Touch Controller | Sub | intelligent Touch Controller | Sub |
| Impossible | intelligent Touch Controller | Main | Central Remote Controller | Main | intelligent Touch Controller | Sub | Central Remote Controller | Sub |
| Impossible | intelligent Touch Controller | Main | Central Remote Controller | Main | Central Remote Controller | Sub | intelligent Touch Controller | Sub |
| Impossible | intelligent Touch Controller | Main | Central Remote Controller | Main | Central Remote Controller | Sub | Central Remote Controller | Sub |
| Impossible | Central Remote Controller | Main | intelligent Touch Controller | Main | intelligent Touch Controller | Sub | intelligent Touch Controller | Sub |
| Impossible | Central Remote Controller | Main | intelligent Touch Controller | Main | intelligent Touch Controller | Sub | Central Remote Controller | Sub |
| Impossible | Central Remote Controller | Main | intelligent Touch Controller | Main | Central Remote Controller | Sub | intelligent Touch Controller | Sub |
| Impossible | Central Remote Controller | Main | intelligent Touch Controller | Main | Central Remote Controller | Sub | Central Remote Controller | Sub |
| Impossible | Central Remote Controller | Main | Central Remote Controller | Main | intelligent Touch Controller | Sub | intelligent Touch Controller | Sub |
| Impossible | Central Remote Controller | Main | Central Remote Controller | Main | intelligent Touch Controller | Sub | Central Remote Controller | Sub |
| Impossible | Central Remote Controller | Main | Central Remote Controller | Main | Central Remote Controller | Sub | intelligent Touch Controller | Sub |
| Possible | Central Remote Controller | Main | Central Remote Controller | Main | Central Remote Controller | Sub | Central Remote Controller | Sub |
| Possible | Central Remote Controller | Main | — | — | Central Remote Controller | Sub | — | — |
| Possible | intelligent Touch Controller | Main | — | — | intelligent Touch Controller | Sub | — | — |
| Possible | Central Remote Controller | Main | — | — | intelligent Touch Controller | Sub | — | — |
| Possible | intelligent Touch Controller | Main | — | — | Central Remote Controller | Sub | — | — |
| Possible | Central Remote Controller | Main | — | — | — | — | — | — |
| Possible | intelligent Touch Controller | Main | — | — | — | — | — | — |

## 7.2.6 Parallel Interface

You can easily connect host systems such as a building management system, various control systems, tenant management system, etc. to VRV system.

**System Outline**




**Parallel Interface Outline**

- On/off command, status monitoring (contact signal) and room temperature setting, indoor unit suction temperature measurement (analog signal), filter sign monitoring and Unified operation (off) can be carried out by host system.
- You can designate whether operation by local remote controller will be accepted or rejected for each parallel interface.
  (You may select from among central priority, last command priority and remote controller operation rejection.)
- On/off command, status monitoring and room temperature setting can be set for 16 groups individually.
- Suction temperature measurement only is selected for any 4 of 16 groups.
- Units can be increased by units of 16 groups each within the same central control system, and 64 groups can be controlled when a maximum of 4 units are connected.

**Connection Functions with Host System**

The functions when connected with a host system via parallel interface are given below.

- Functions

| Function | Host System | Data Direction | Parallel Interface Processing |
|---|---|---|---|
| Operation/ Setting | On/Off Operation | → | On/off command is detected and sent to applicable group of indoor units. |
| | Forced Off Operation | → | Off command is detected and all indoor units on the same line are turned off. |
| | Temperature Setting Control | → | Alteration of the temperature setting is detected, and if within the range of 1.6 to 3.2V, the command is sent to applicable group of indoor units. Setting by local remote controller or central remote controller is impossible when in this range only. (“Central Control” is displayed on the local remote controller.) |
| Monitoring | On/Off Status (Note 1) | ← | Present status is output when change in group status is detected. |
| | Normal/Error Status (Note 1) | ← | Present status is output when change in group status is detected. |
| | Filter Sign | ← | Present status is output when at least 1 group among the control target groups is lit. |
| | Indoor Unit Suction Temperature | ← | Measurement value of suction air temperature is constantly output. If there is a sub unit, the measurement value for the main unit is output. |

**Note:**

1. The various output conditions are as follows.

On: At least 1 air-conditioner in the group is operating.
Off: All air-conditioners in the group are turned off.

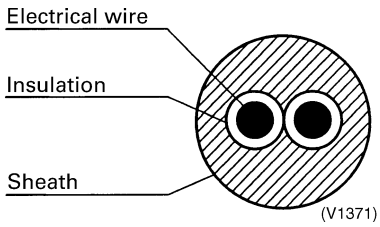
Error: An error has occurred for at least 1 air-conditioner in the group.
Normal: All air-conditioners in the group are operating normally.

## 7.3 Specifications of the Control Wiring

**Be sure to use either 2-core sheathed vinyl cord or cable as mentioned below.**
**(Example : In case of Japanese JIS)**

| | | |
|---|---|---|
| ■ Vinyl cab tire round cord | VCTF | JISC3306 |
| ■ Vinyl insulated, vinyl sheathed cable for control | CVV | JISC3401 |
| ■ Round vinyl sheathed cable for control | CVS | JISC3401 |
| ■ Round vinyl insulated, vinyl sheathed cable | VVR | JISC3342 |
| ■ 600V vinyl cab tire cable | VCT | JISC3312 |
| ■ Polyethylene insulated vinyl sheathed cable | CPEV(★) | |
| ■ Mesh insulated cable | MVVS(★) | |

<Example> Section of cord




★ When the shield wire is used, be sure to ground the one side of the shield wire.

★ Do not use the shield wire with other type of wire in the same system.

**<Cautions>**

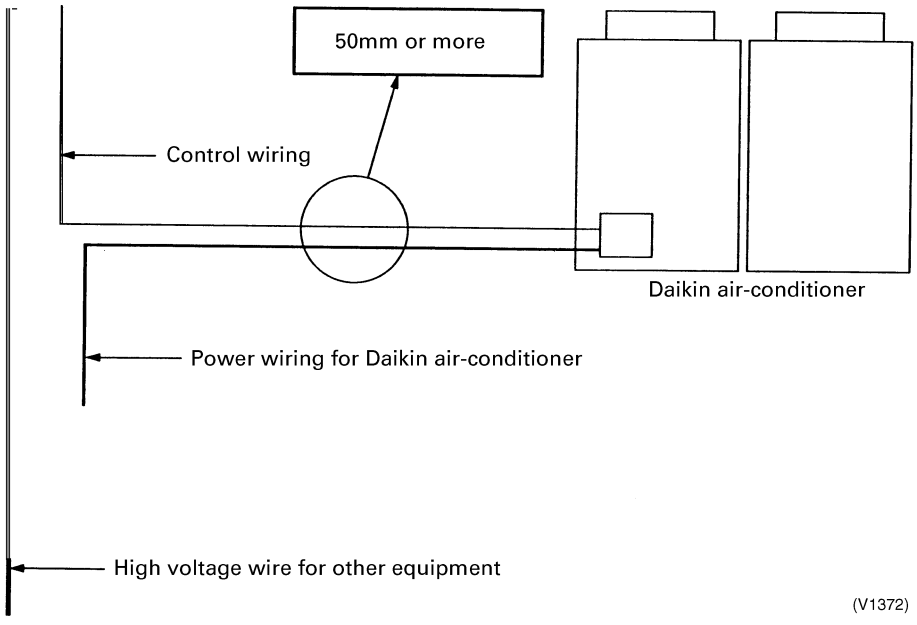
1. **Never use a 3 or more core of cord or cable.**
2. **The size of wire should be 0.75~1.25mm².**
3. **Never bundle the cable or cord of transmission line.**
4. **Be sure to keep the transmission wiring distant from power wiring as shown below to prevent electrical noise.**

| Capacity of power wiring | | Distance between Power wiring and control wiring | |
|---|---|---|---|
| | | Daikin air-conditioner (★1) | Other air-conditioners |
| 220V or less | 10A or less | 50mm or more (★2) | 300mm or more |
| | 50A or less | | 500mm or more |
| | 100A or less | | 1000mm or more |
| | 100A or more | | 1500mm or more |

**Note:**

1. ★1 .....VRV system, SkyAir series and other air-conditioner.
2. ★2 .....VRV system or other Daikin air-conditioner produces less electrical noise, so that the distance of 50mm or more is sufficient.
3. For control wiring, never use the shield wire together with other sheathed vinyl cord in the same system, which may cause the malfunction in transmission.

**[Example]**



1

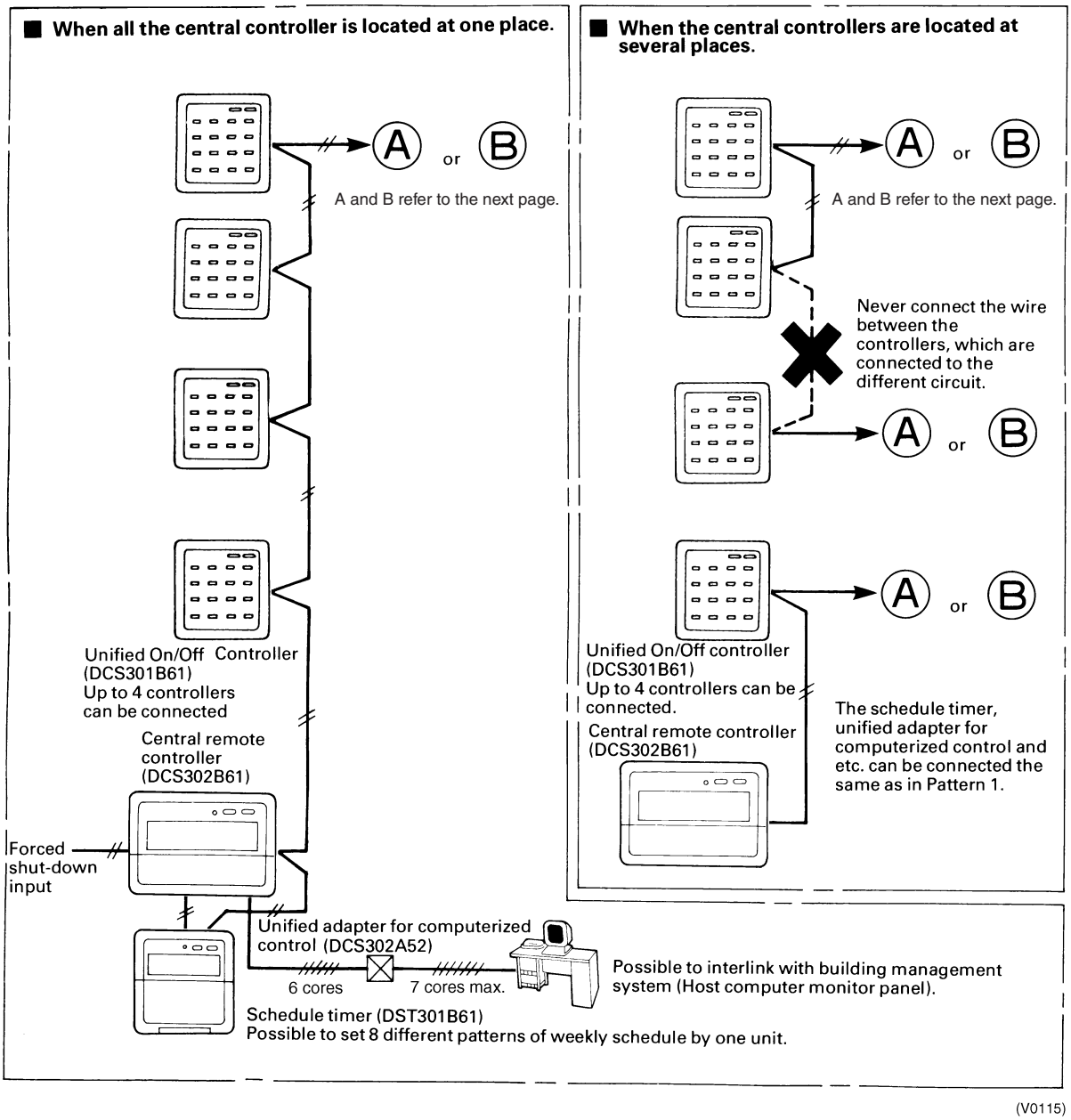
## 7.4 Wiring Example

**Example of Control Wiring**

- Be sure to connect the wiring of the central controller to A or B.
  (Connect to B, if it is possible.)
- Be sure to limit the number of indoor units within the limitation for each system.
- Never connect the wire between the controllers, which are connected to the different circuit. (Be careful)
- In order to prevent the connection of three wires on the same terminal, connect to the terminal unit of A or B, or use the relay terminal (local supply).

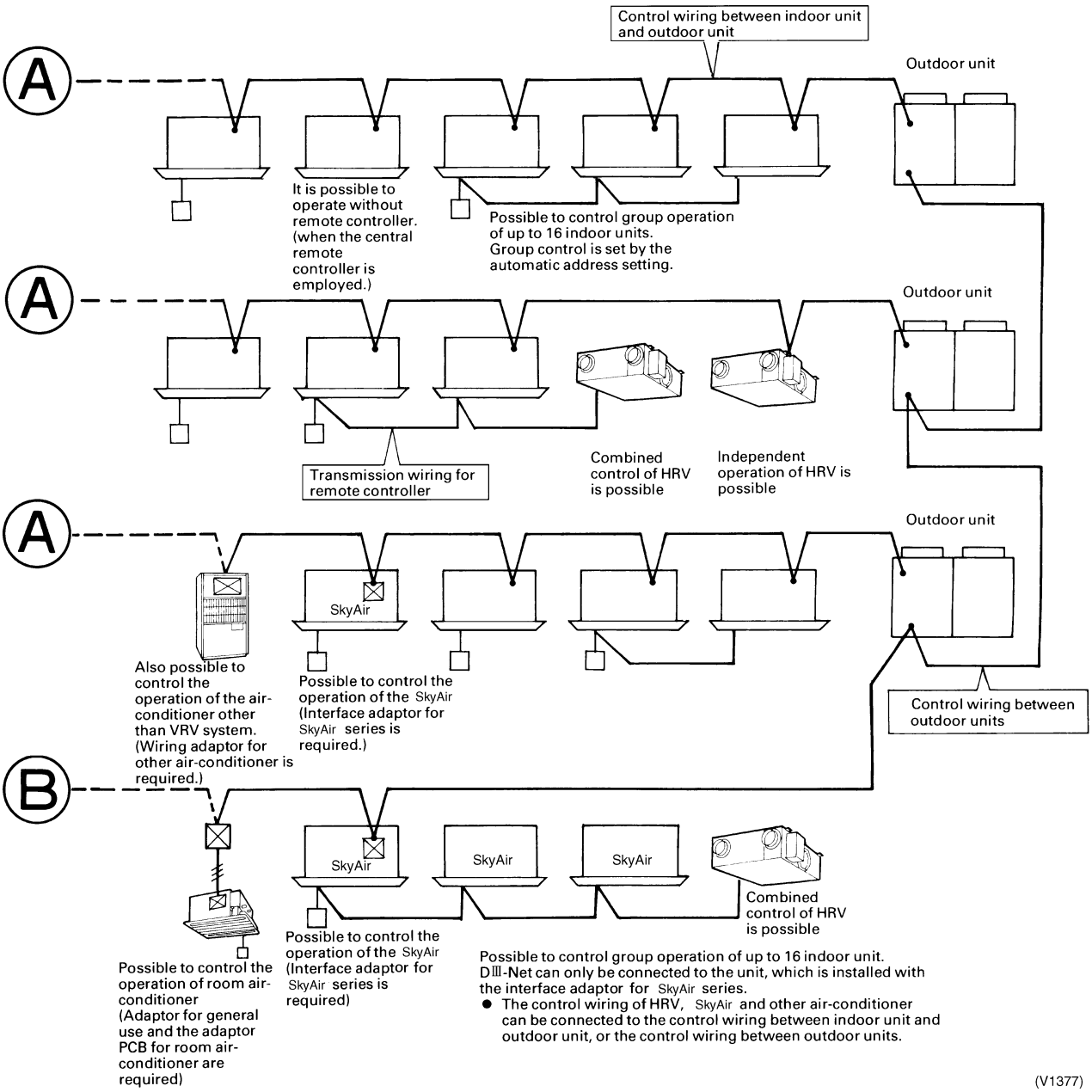
<Pattern 1> A and B refer to the next page.

<Pattern 2> A and B refer to the next page.




(V0115)

- The longest extension of the wiring should not exceed 1000m.
  (Total length of the wiring should not exceed 2000m, excluding the wiring to the remote controller.)
- Up to 128 indoor units can be controlled.
- The total wiring length is 1500m when shielded wire use.



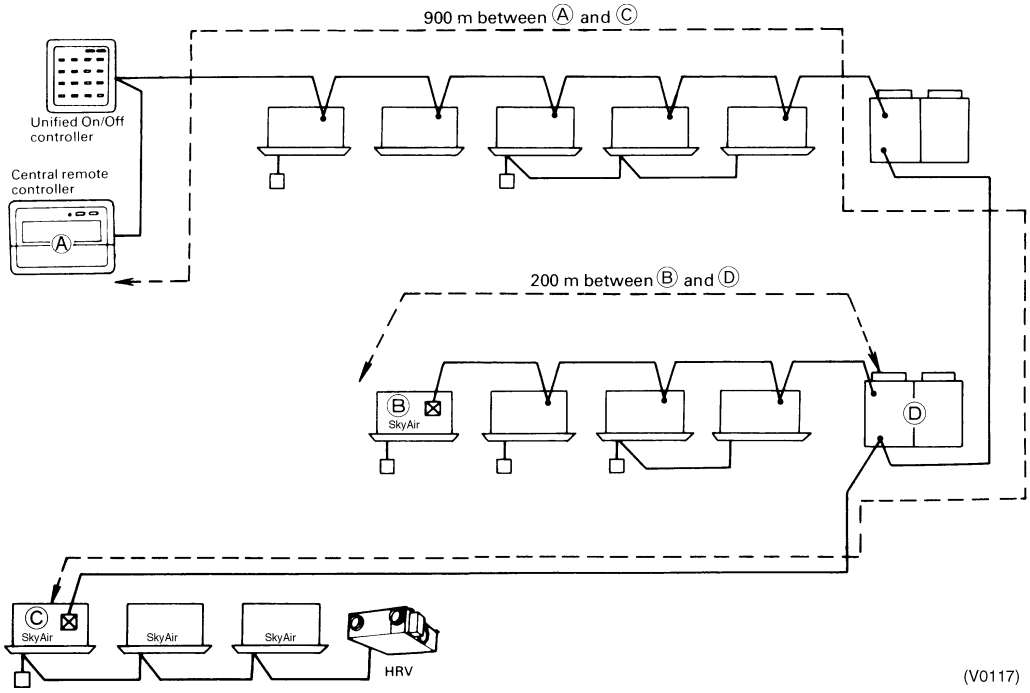

**The advantages when the central controller are connected to B.**

- If the central controllers are connected to B, it is still possible to have a central control, even if the power supply of other circuit connected to the central controller is shut-off. (even if the power is shut off due to long vacation etc.)

## 7.5 Length of Transmission Wiring

The super wiring system, which integrates the control wiring between indoor unit and outdoor unit and the transmission wiring to the central controllers into one common wiring, should satisfy the following limitation.
The longest extension of wiring: Not exceeding 1000m
Total length of wiring: Not exceeding 2000m

### 7.5.1 Example of Wiring




- In the above system, the longest extension of wiring is 900m between A and C, which satisfies the limit of 1000m. And the total length is 1100m, that is the total of 900m between A and C and 200m between B and C, which also satisfies the limit of 2000m. The central controller functions properly, only when both the longest extension and the total length of wiring satisfies the limitation, as shown above.

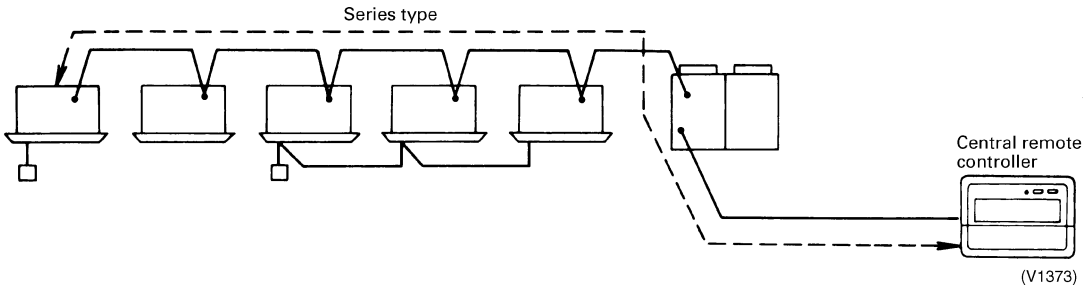
**Caution**

When designing the system, be sure to check both the longest extension and the total length of wiring. If it exceeds the limitation, there is no other way but to split into several systems.

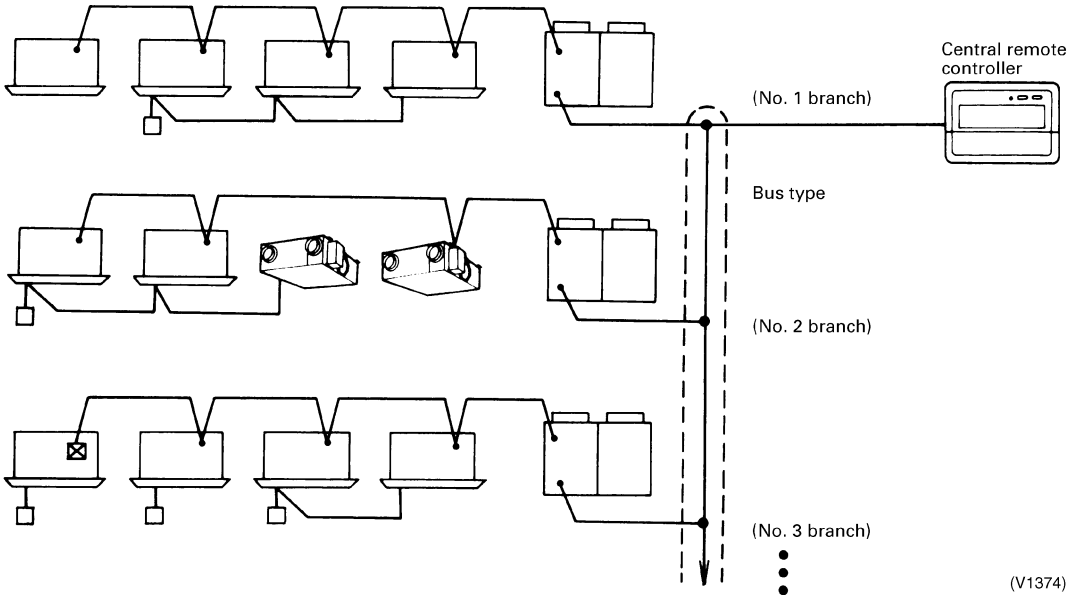
## 7.6 Branch Wiring

**Wiring methods (You can select from the following 3 types of wiring.)**

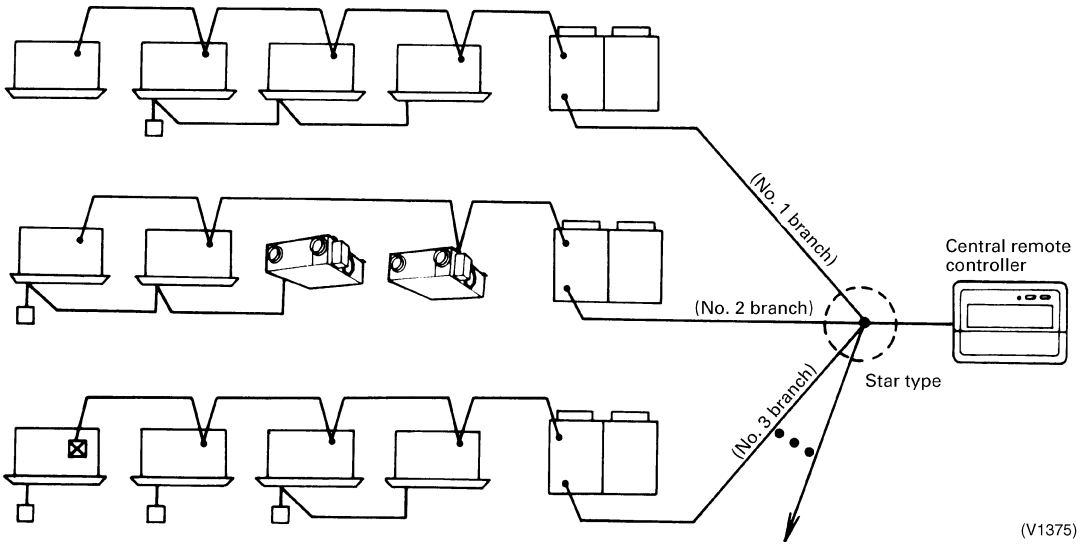
### 7.6.1 Series Method




### 7.6.2 Bus Method (Up to 16 branches is possible. Never diverge the sub-branch from the branch line.)




### 7.6.3 Star Method (Up to 16 branches is possible. Never diverge the sub-branch from the branch line.)



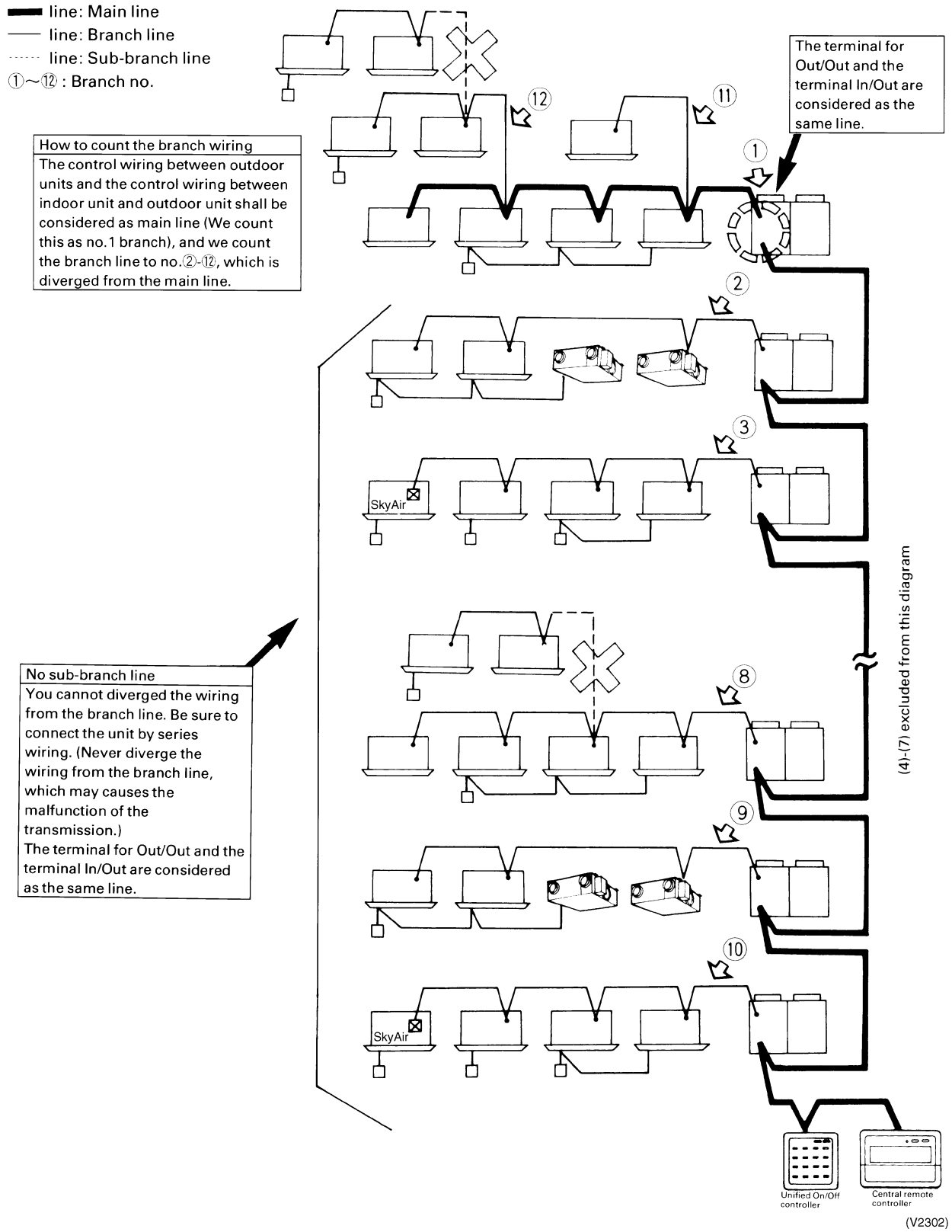

**Note:**

Though a previous figure shows a case in use of a central remote controller, the wiring form which even other central remote controllers are the same as can be done.

## 7.6.4 Example of the System (1)

■ Here we define as branch line, which is diverged from the main line and also define as sub-branch line, which is diverged from the branch line.

● When the central remote controller are connected to the control wiring between the outdoor units.




**Caution**

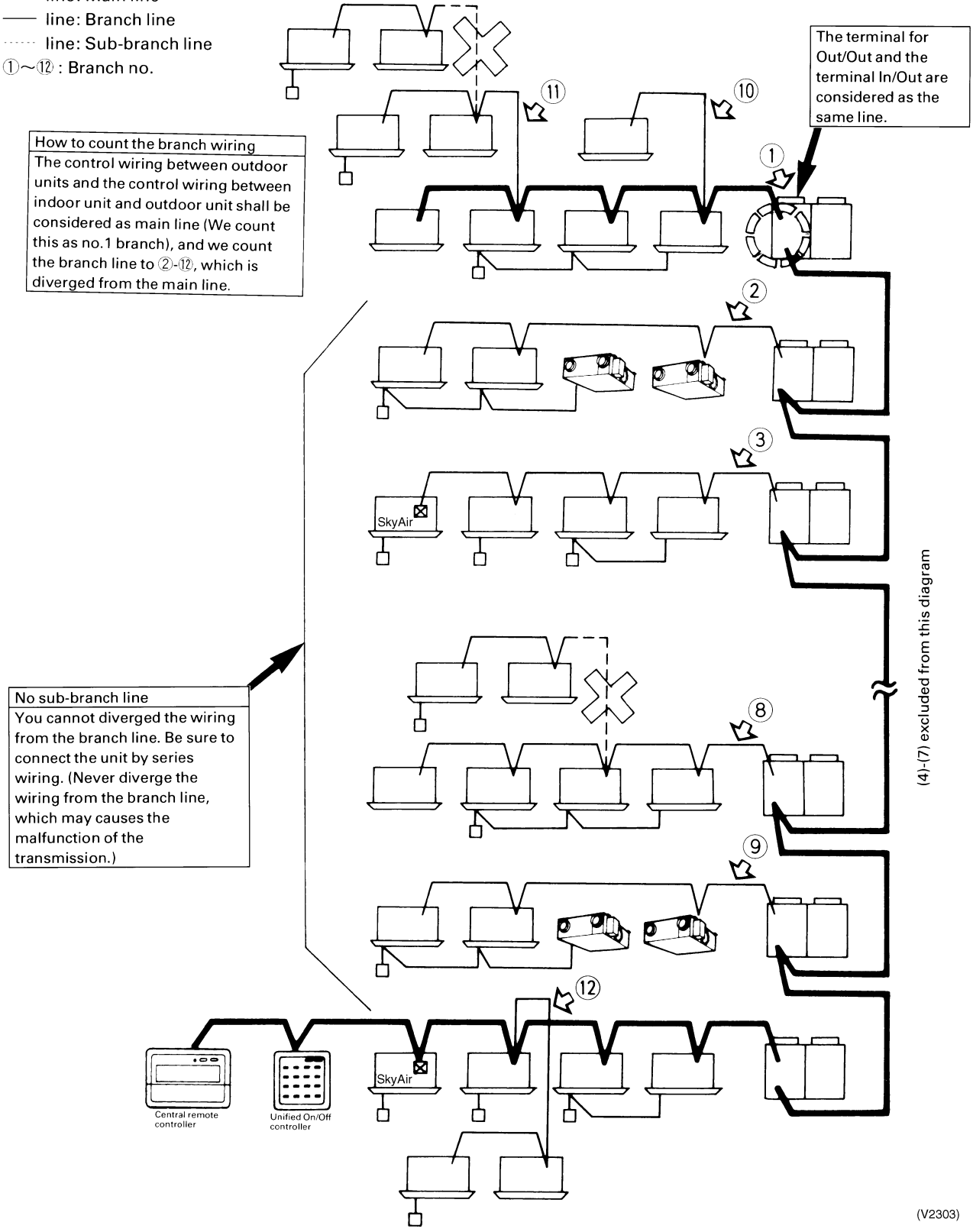
As shown above, the central remote controllers should be connected to the wiring between the outdoor units, wherever possible. (If connected to the control wiring between indoor unit and the outdoor unit, it may not be able to control the units even on the normal circuit if the circuit connected to the central controller is out of order.)

## 7.6.5 Example of the System (2)

■ Here we define as branch line, which is diverged from the main line and also call it sub-branch line, which is diverged from the branch line.

● When the central remote controllers are connected to the control wiring between the outdoor unit and indoor unit.

▬ line: Main line
—— line: Branch line
····· line: Sub-branch line
①～⑫ : Branch no.




**Caution**

As shown above, if the central remote controllers are connected to the control wiring between indoor unit and outdoor unit, it may not be able to control the units even on the normal circuit, if the circuit connected to the central controller is out of order. Be sure to connect the central controllers to the control wiring between the outdoor units.

## 7.6.6 Number of Connectable Units

| | Central Control Equipment | Indoor Unit | Outdoor Unit | Other Adaptors |
|---|---|---|---|---|
| Target Controller (Max. Number) | ■ Central remote controller (2 units) (Note 1)<br>■ intelligent Touch Controller (2 units) (Note 1)<br>■ Unified ON/OFF controller (8 units) (Note 1)<br>■ Schedule timer (1 unit)<br>■ BACnet Gateway (1 unit)<br>■ Parallel interface (4 units)<br>■ DMS-IF (1 unit)<br>■ Intelligent Manager ECO21 (1 unit) | ■ VRV system<br>■ SkyAir series (Interface adaptor for SkyAir is required.)<br>■ HRV unit<br>■ Packaged air-conditioner (FD, UAT, etc.) (Wiring adaptor for other air-conditioner is required.)<br>■ Room air-conditioner (Wiring adaptor for other air-conditioner is required.)<br>■ BS unit (Note 3)<br>■ Wiring adaptor | Outdoor unit for VRV system | ■ External control adaptor for outdoor unit<br>■ Wiring adaptor for electrical appendices (1) |
| Number of Units | (Note 2) | Up to 128 units (Note 5) | Up to 10 units (Note 4) | Up to 10 units |

**Note:**

1. When you have a 2 central control system (to control one system from 2 central locations), 2 intelligent Touch Controllers, 4 central remote controllers and 16 unified ON/OFF controllers can be connected. However, a maximum of 128 units can only be controlled.
2. When you connect 8 or more central control equipment, it is required to satisfy the following conditions. (The following conditions are not required to be considered when the number of controller is 7 or less.)

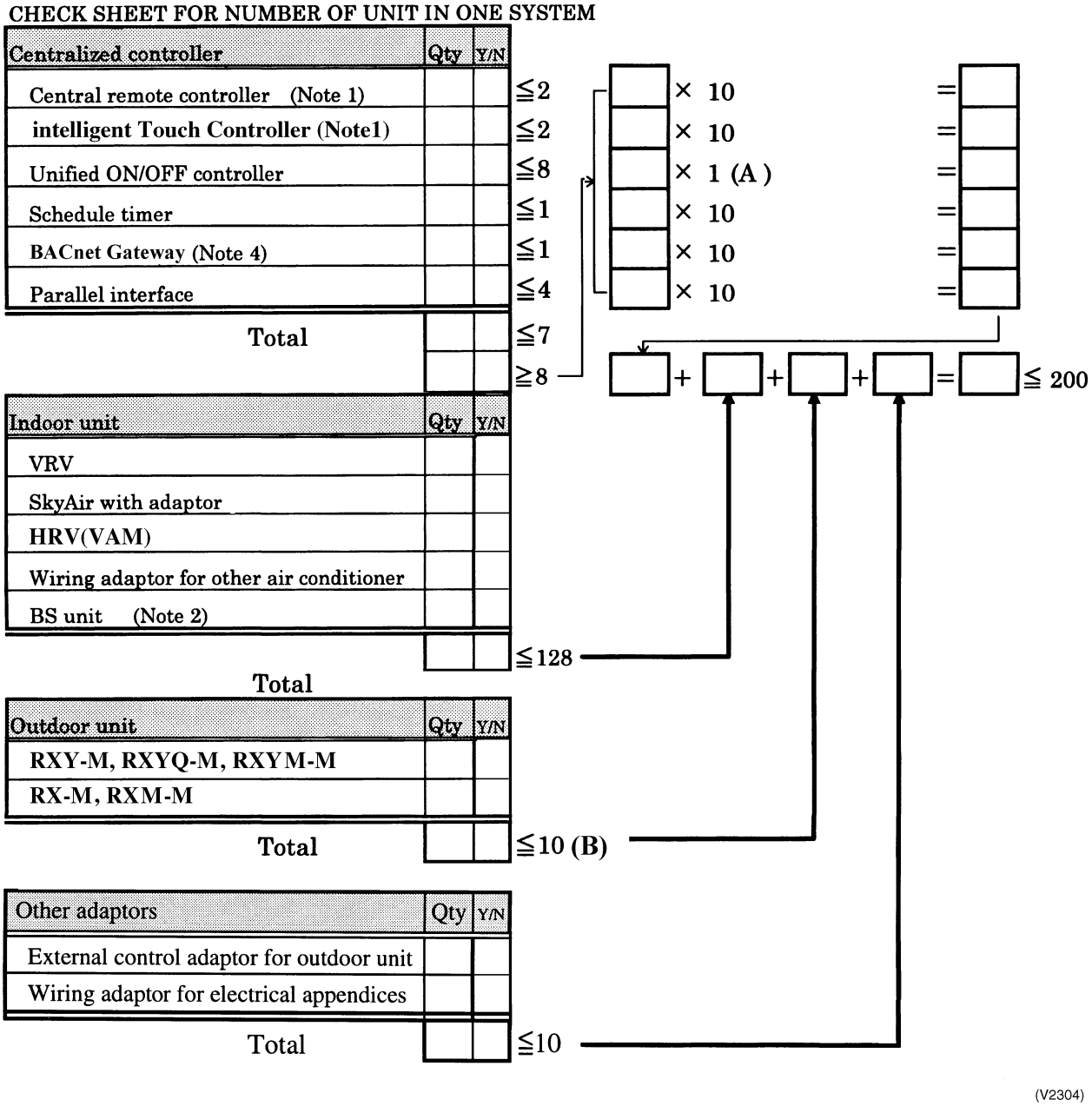
■ **Central control equipment + Indoor units + Outdoor units + other adaptors ≤ 160 units**

■ **Central Conversion number of central control equipment (★) + Indoor units + Outdoor units + other adaptors ≤ 200 units**

**(Note: (★) is converted one central control equipment except unified ON/OFF controller as 10 units.)**

3. When BS unit is installed, BS unit is not counted in the number. However, the indoor units after BS unit should be counted.
4. The outdoor unit is limited up to a maximum of 10 units and the total rated capacity should be 280kW (100HP) or less, and also the number of function units is also limited up to 5. However, if the sequential start setting is possible, up to 10 function units can be connected.
5. When the parallel interface is connected, the number of indoor units are limited up to 64 groups (128 units). When you judge whether the number of the connectable units is possible, refer to the flow chart on the next page.

## 7.6.7 Flow Chart to Determined the Number of Units to Connected




**Note:**

Condition

**(A )** means;

- Central control equipment + Indoor units + Outdoor units + other adaptors ≤ 160 units
- Conversion number of central control equipment + Indoor units + Outdoor units + other adaptors ≤ 200 units

**(B )** means;

In case of connecting to DIII NET

- Outdoor units must be counted to one system even in case of including 3 units. (Master + Master + Master = One system)
- The outdoor units connected by terminal Ex. Q1, Q2 (excepting terminal $F_1$, $F_2$) are regarded as one system.

| Control wiring | | Y/N | |
|---|---|---|---|
| Maximum extension | M | | < 1000 |
| Total wiring length | M | | ≦ 2000 |
| Wiring Branch | | | ≦ 16 |

(V0121)

**Notes:**

1. When one system is to be controlled from two locations, up to two intelligent Touch Controller (In case of combining the intelligent Touch Controller and Central Remote Controller, it is restricted to combine two Controllers in total), four Central Remote Controller and 16 unified ON/OFF Controller can be connected. However, the maximum number of units that can be controlled is 128.
2. When a BS unit is used, the indoor units used in its downstream are not counted.
3. One port of one BACnet Gateway can have up to 64 groups (64 master indoor units with address). In case of adopting group controlling, the circuit covered by the data station can have up to 128 indoor units including main and sub units.

# Part 2
# Indoor Units

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Ceiling Mounted Cassette Type <Double-Flow> . . 47

**FXF-L**
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# FXC-L
# Ceiling Mounted Cassette Type <Double-Flow>



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# 1. Features

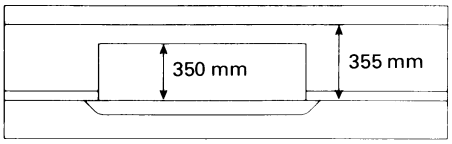
= Drastic change of performance, function and design =

**Line-up**
FXC20LVE~FXC125LVE

**<Features>**

## Compactness

- Lowest height in the industry with whisper quietness




(V0030)

## Low operation sound

- 5~8 dBA reduction compared to the present model

## Less weight

- 10~12 kg reduction (63~125) compared to present models

## Improvement in installation and design flexibility

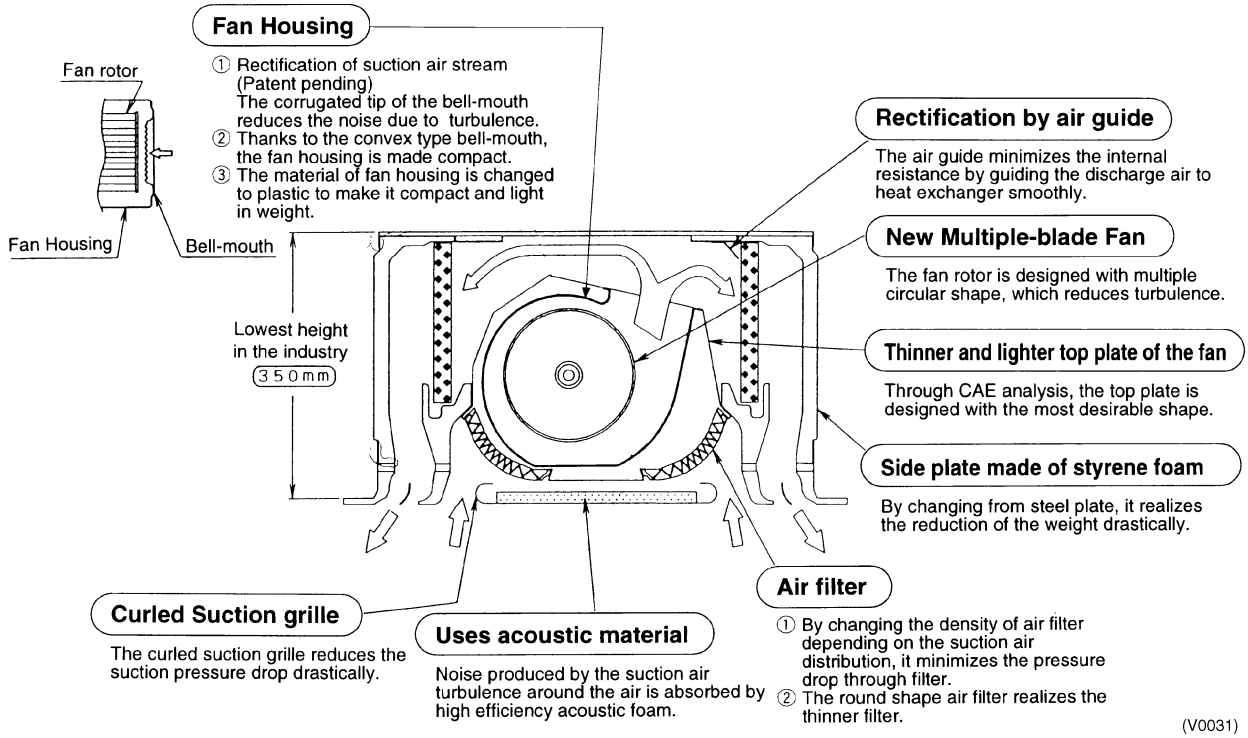
- Reduction of weight of both main unit and panel
- Standardized sectional module
- Matching the center of main unit and panel

## Less maintenance

- Flat type suction grille of easy cleaning
- Detachable blade
- To minimize the soiling of the ceiling

**<Details>**

### (1) Main technical improvement for compactness

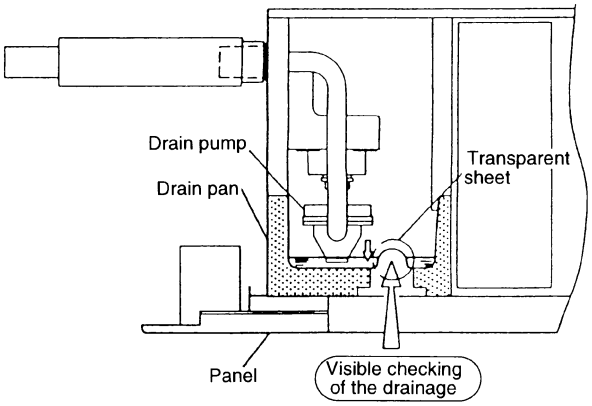



(V0031)

## (2) Improvements for facilitating the installation and maintenance

### Facilitating the installation

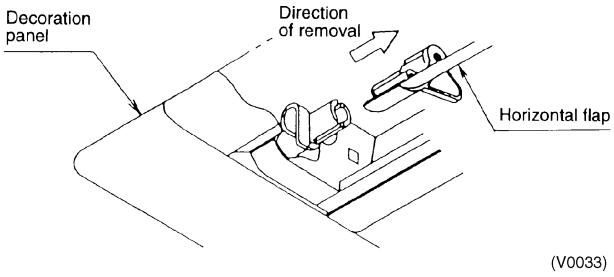
- **Lighter in weight**
  (Main unit and panel)
- **Center of the ceiling opening and the unit.**
  The same position
- **Checking the drainage flow**
  The cover of inspection hatch is detachable with one touch.
- **Facilitating the checking of drainage**



(V0032)

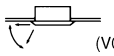
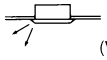
### Facilitating the maintenance

- **Soiling of the ceiling**
  About 1/5 of the conventional model
- **Cleaning of the suction grille**
  Easy to clean because of flat shape
- **Cleaning of the air discharge flap (Detachability)**
  The flap can be detached with one touch without removing the panel
- **Detachment of air discharge flap**



(V0033)

- **2 different positions of auto-swing for more comfort.**

| Position of Auto-Swing | Standard Position | Ceiling Soiling Prevention Position |
|---|---|---|
| Operation of Auto-Swing |  (V0034) Flaps swing within the range of 0°~60° | |
| 5 Steps of Direction | (V1226) 5 steps within the range of 0°~60° | (V0036) 5 steps within the range of 45°~60° |
| Prevention of Draft | (V0037) Prevents cold draft (heating operation) | — |
| Auto-set Air Direction |  (V0038) The position of flaps is automatically set at the position of previous operation. (Initial position is 30° for cooling, and 60° for heating.) | |

# 2. Specifications

## Ceiling Mounted Cassette Type (Double-flow)

| Model | | | FXC20LVE | FXC25LVE | FXC32LVE | FXC40LVE |
|---|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 2,000 | 2,500 | 3,150 | 4,000 |
| | | Btu/h | 7,900 | 9,900 | 12,500 | 15,900 |
| | | kW | 2.3 | 2.9 | 3.7 | 4.7 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 2.2 | 2.8 | 3.6 | 4.5 |
| ★3 Heating Capacity | | kcal/h | 2,200 | 2,800 | 3,400 | 4,300 |
| | | Btu/h | 8,500 | 10,900 | 13,600 | 17,000 |
| | | kW | 2.5 | 3.2 | 4.0 | 5.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 305×775×600 | 305×775×600 | 305×775×600 | 305×990×600 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 2×10×1.5 | 2×10×1.5 | 2×10×1.5 | 2×10×1.5 |
| | Face Area | m² | 2×0.100 | 2×0.100 | 2×0.100 | 2×0.145 |
| Fan | Model | | D17K2AA1 | D17K2AB1 | D17K2AB1 | 2D17K1AA1 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 10×1 | 15×1 | 15×1 | 20×1 |
| | Air Flow Rate (H/L) | m³/min | 7/5 | 9/6.5 | 9/6.5 | 12/9 |
| | | cfm | 247/177 | 318/230 | 318/230 | 424/318 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Wool/Urethane Foam | Glass Wool/Urethane Foam | Glass Wool/Urethane Foam | Glass Wool/Urethane Foam |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) |
| | Drain Pipe | mm | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) |
| Machine Weight | | kg | 26 | 26 | 26 | 31 |
| ★5 Sound Level (H/L) (220V) | | dBA | 32/27 | 34/28 | 34/28 | 34/29 |
| Safety Devices | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series |
| Decoration Panels (Option) | Model | | BYBC32G-W1 | BYBC32G-W1 | BYBC32G-W1 | BYBC50G-W1 |
| | Panel Color | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) |
| | Dimensions: (H×W×D) | mm | 53×1,030×680 | 53×1,030×680 | 53×1,030×680 | 53×1,245×680 |
| | Air Filter | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| | Weight | kg | 8 | 8 | 8 | 8.5 |
| Standard Accessories | | | Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. |
| Drawing No. | | | 3D034244A | | | |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 71 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

## Ceiling Mounted Cassette Type (Double-flow)

| Model | | | FXC50LVE | FXC63LVE | FXC80LVE | FXC125LVE |
|---|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 5,000 | 6,300 | 8,000 | 12,500 |
| | | Btu/h | 19,900 | 25,000 | 31,800 | 49,600 |
| | | kW | 5.8 | 7.3 | 9.3 | 14.5 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 5.6 | 7.1 | 9.0 | 14.0 |
| ★3 Heating Capacity | | kcal/h | 5,400 | 6,900 | 8,600 | 13,800 |
| | | Btu/h | 21,500 | 27,300 | 34,100 | 54,600 |
| | | kW | 6.3 | 8.0 | 10.0 | 16.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 305×990×600 | 305×1,175×600 | 305×1,665×600 | 305×1,665×600 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 2×10×1.5 | 2×10×1.5 | 2×10×1.5 | 2×10×1.5 |
| | Face Area | m² | 2×0.145 | 2×0.184 | 2×0.287 | 2×0.287 |
| Fan | Model | | 2D17K1AA1 | 2D17K2AA1VE | 3D17K2AA1 | 3D17K2AB1 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 20×1 | 30×1 | 50×1 | 85×1 |
| | Air Flow Rate (H/L) | m³/min | 12/9 | 16.5/13 | 26/21 | 33/25 |
| | | cfm | 424/318 | 582/459 | 918/741 | 1,165/883 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Wool/Urethane Foam | Glass Wool/Urethane Foam | Glass Wool/Urethane Foam | Glass Wool/Urethane Foam |
| Piping Connections | Liquid Pipes | mm | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ19.1 (Flare Connection) |
| | Drain Pipe | mm | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) |
| Machine Weight | | kg | 32 | 35 | 47 | 48 |
| ★5 Sound Level (H/L) | | dBA | 34/29 | 37/32 | 39/34 | 44/38 |
| Safety Devices | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series |
| Decoration Panels (Option) | Model | | BYBC50G-W1 | BYBC63G-W1 | BYBC125G-W1 | BYBC125G-W1 |
| | Panel Color | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) |
| | Dimensions: (H×W×D) | mm | 53×1,245×680 | 53×1,430×680 | 53×1,920×680 | 53×1,920×680 |
| | Air Filter | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| | Weight | kg | 8.5 | 9.5 | 12 | 12 |
| Standard Accessories | | | Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Washer for Hanging Brackets, Clamp Metal, Drain Hose, Insulation for Fitting, Washer Fixing Plates, Sealing Pads, Clamps, Screws, Washers. |
| Drawing No. | | | 3D034244A | | | |

### Notes:

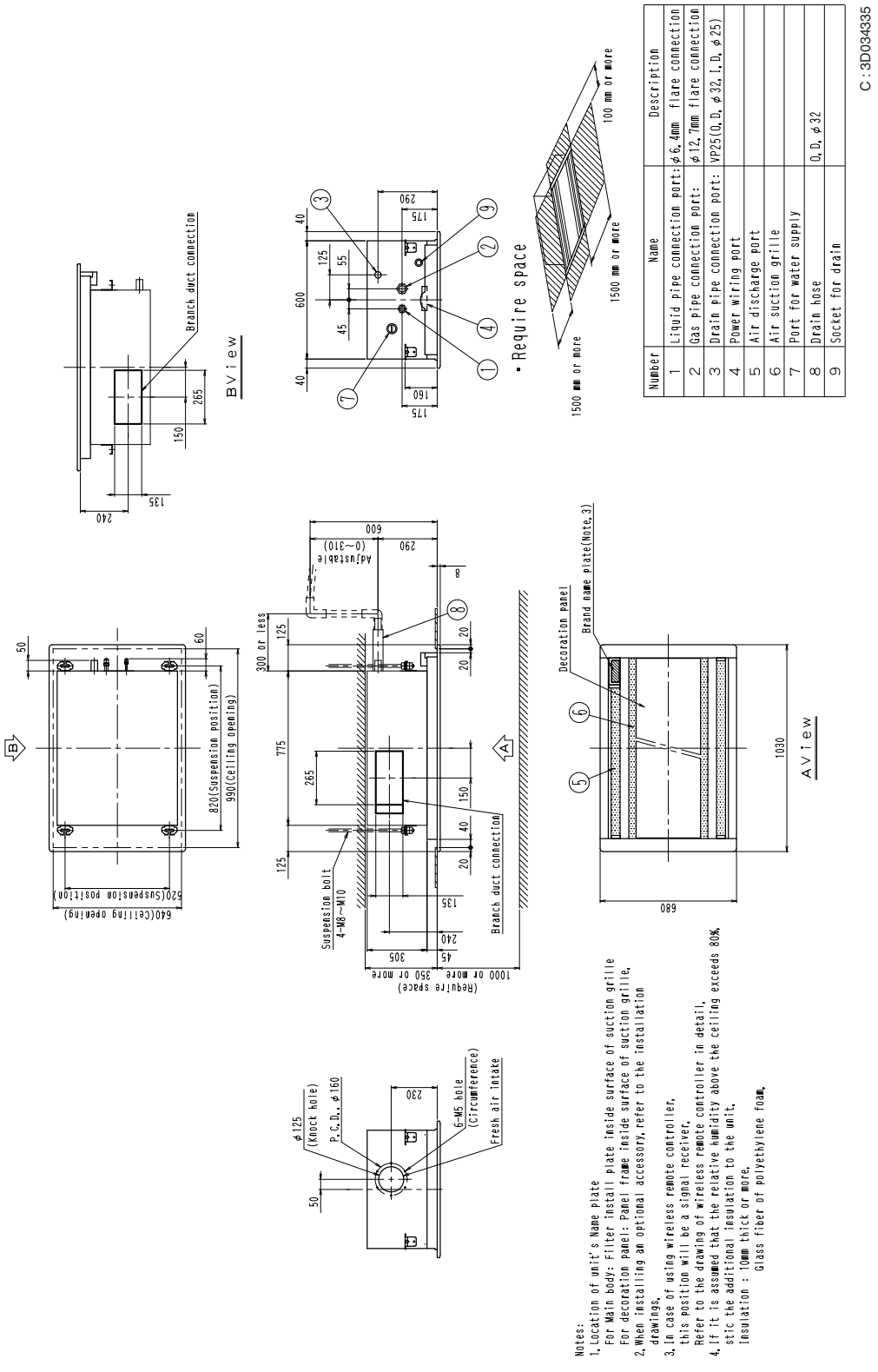
★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 71 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860 |
| Btu/h=kW×3414 |
| cfm=m³/min×35.3 |

# 3. Dimensions

**FXC20L + BYBC32G-W1 (Decoration Panel)**
**FXC25L + BYBC32G-W1 (Decoration Panel)**
**FXC32L + BYBC32G-W1 (Decoration Panel)**

Unit (mm)



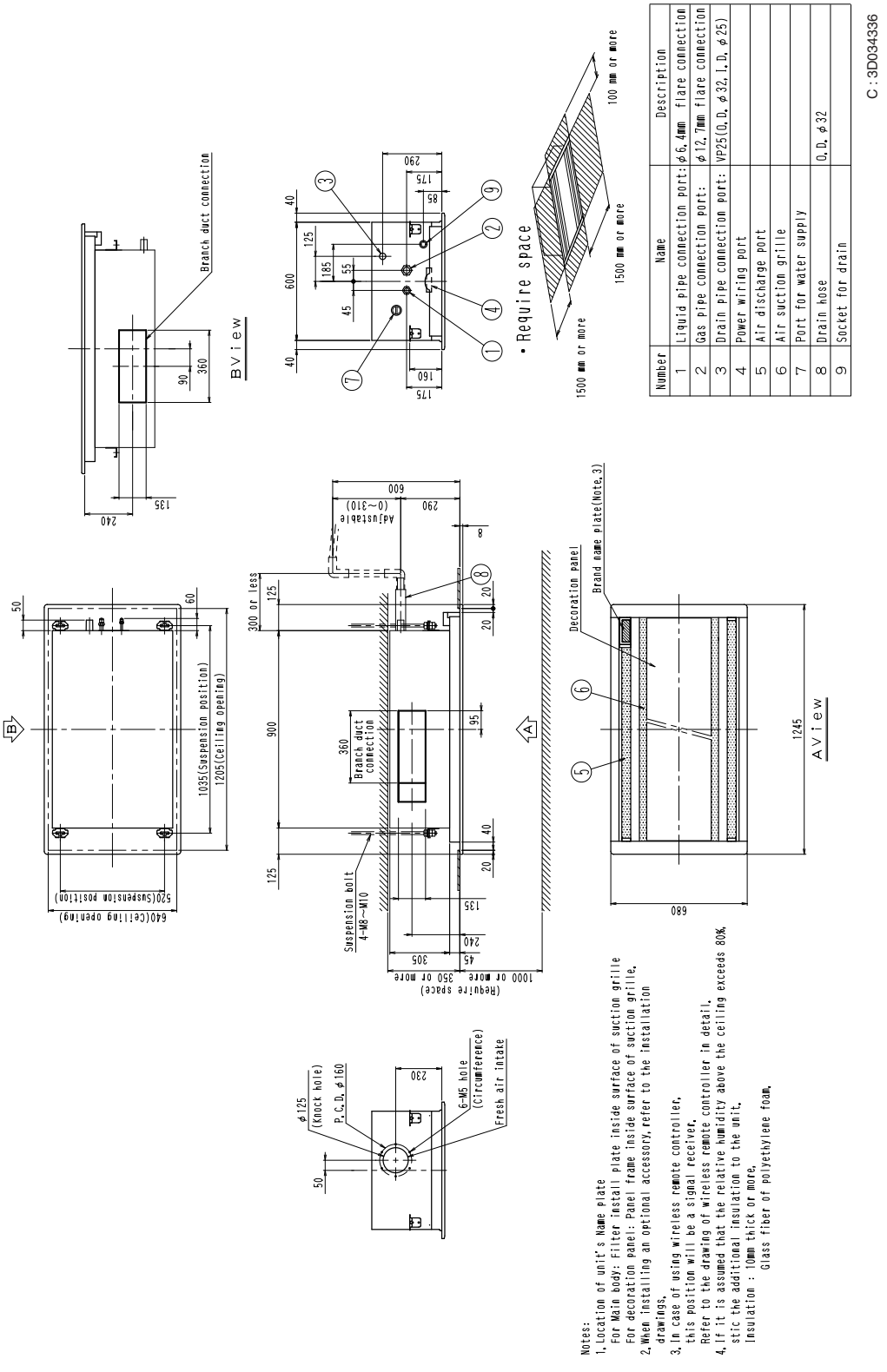

| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection port: | ϕ6.4mm flare connection |
| 2 | Gas pipe connection port: | ϕ12.7mm flare connection |
| 3 | Drain pipe connection port: | VP25(O.D. ϕ32.1.D. ϕ25) |
| 4 | Power wiring port | |
| 5 | Air discharge port | |
| 6 | Air suction grille | |
| 7 | Port for water supply | |
| 8 | Drain hose | O.D. ϕ32 |
| 9 | Socket for drain | |

Notes:
1. Location of unit's Name plate
   For Main body: Filter install plate inside surface of suction grille
   For decoration panel: Panel frame inside surface of suction grille.
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.
4. If it is assumed that the relative humidity above the ceiling exceeds 80% stic the additional insulation to the unit.
   Insulation : 10mm thick or more.
   Glass fiber of polyethylene foam.

## FXC40L + BYBC50G-W1 (Decoration Panel)

2

Unit (mm)



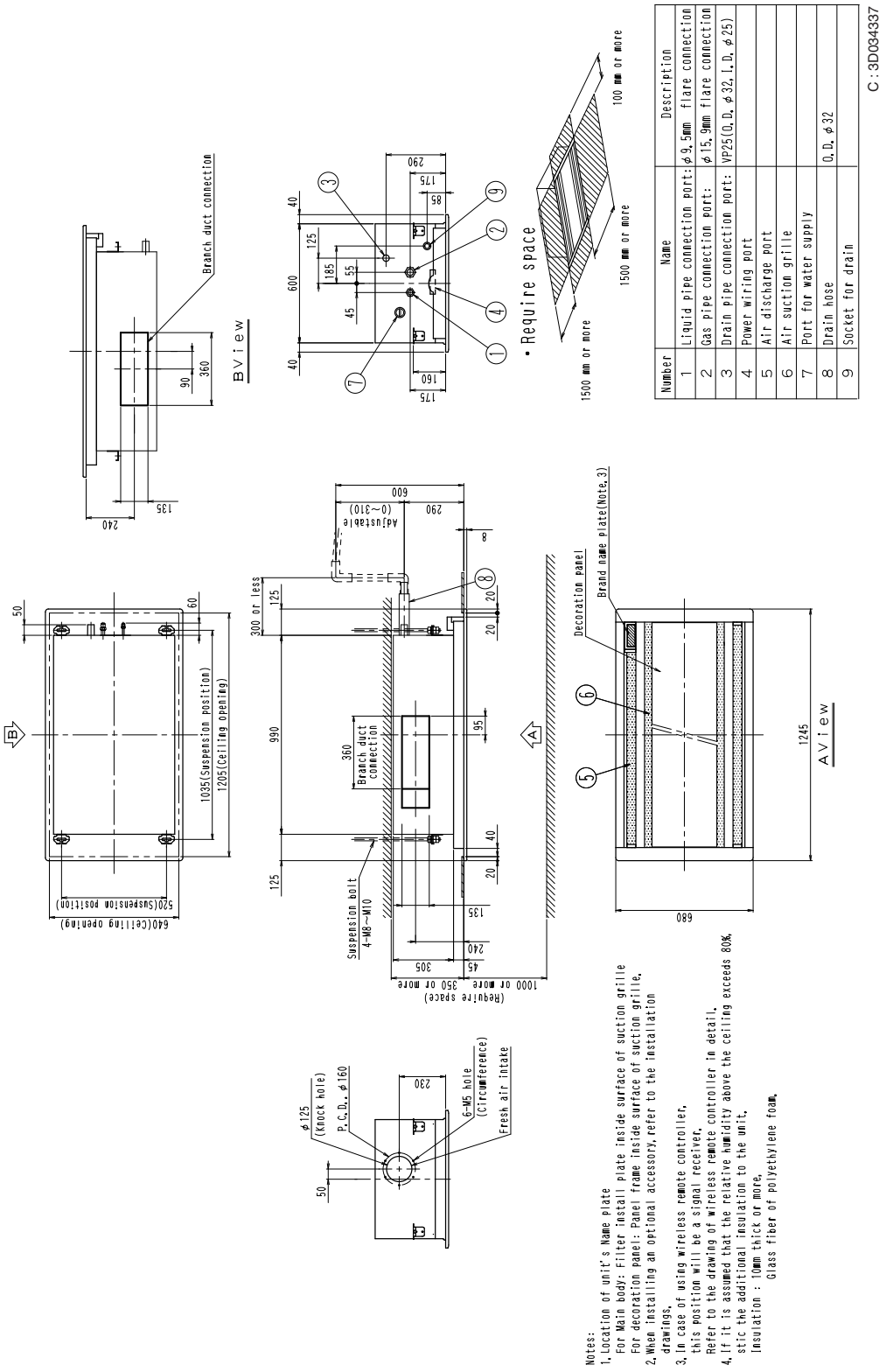

| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection port: | φ6.4mm flare connection |
| 2 | Gas pipe connection port: | φ12.7mm flare connection |
| 3 | Drain pipe connection port: | VP25(O.D. φ32, I.D. φ25) |
| 4 | Power wiring port | |
| 5 | Air discharge port | |
| 6 | Air suction grille | |
| 7 | Port for water supply | |
| 8 | Drain hose | O.D. φ32 |
| 9 | Socket for drain | |

C : 3D034336

Notes:
1. Location of unit's Name plate
   For Main body: Filter install plate inside surface of suction grille
   For decoration panel: Panel frame inside surface of suction grille.
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.
4. If it is assumed that the relative humidity above the ceiling exceeds 80%, stic the additional insulation to the unit.
   Insulation : 10mm thick or more.
   Glass fiber of polyethylene foam.

## FXC50L + BYBC50G-W1 (Decoration Panel)

Unit (mm)



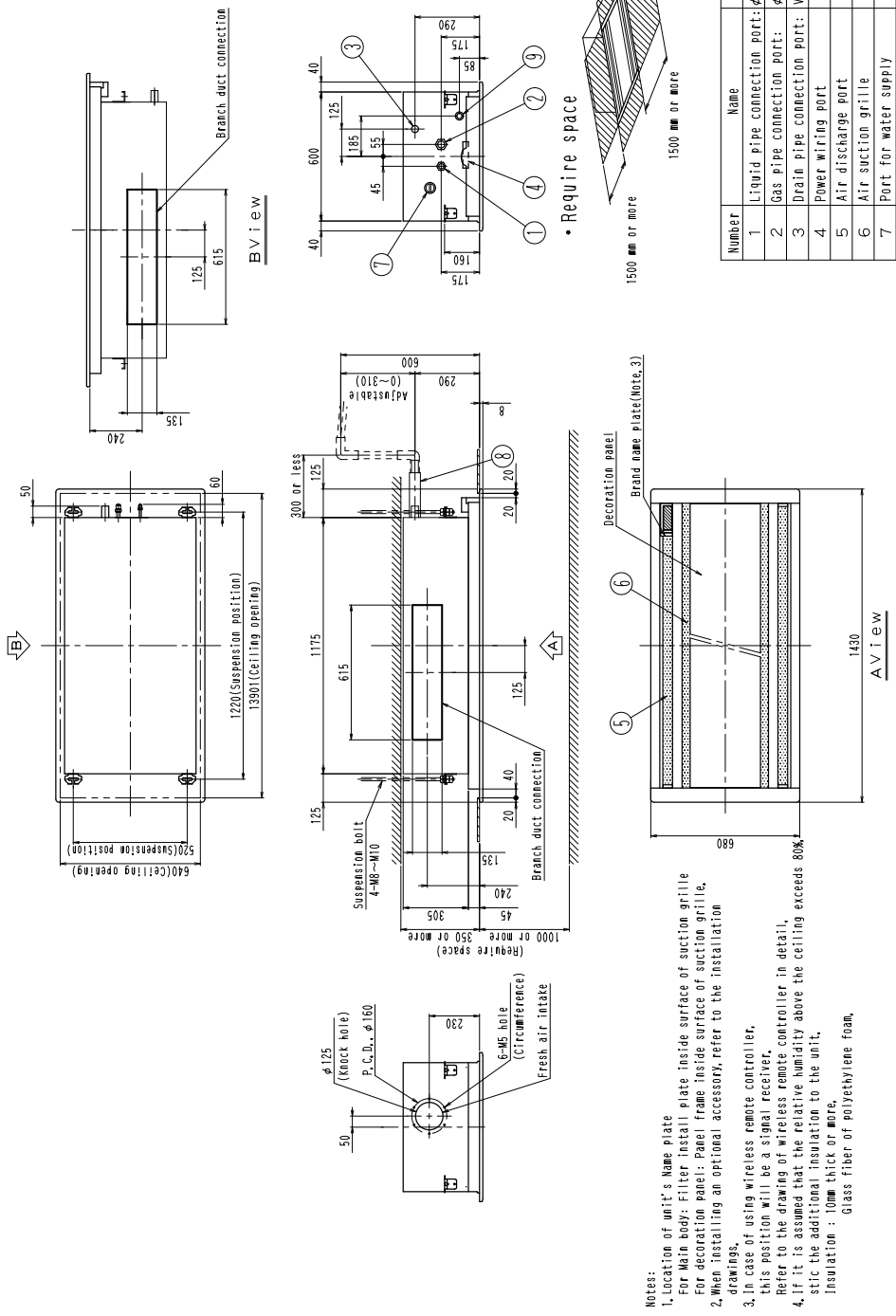

| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection port: | ϕ9.5mm flare connection |
| 2 | Gas pipe connection port: | ϕ15.9mm flare connection |
| 3 | Drain pipe connection port: | VP25(O.D. ϕ32, I.D. ϕ25) |
| 4 | Power wiring port | |
| 5 | Air discharge port | |
| 6 | Air suction grille | |
| 7 | Port for water supply | |
| 8 | Drain hose | O.D. ϕ32 |
| 9 | Socket for drain | |

Notes:
1. Location of unit's Name plate
   For Main body: Filter install plate inside surface of suction grille
   For decoration panel: Panel frame inside surface of suction grille.
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.
4. If it is assumed that the relative humidity above the ceiling exceeds 80% stic the additional insulation to the unit, Insulation : 10mm thick or more, Glass fiber of polyethylene foam.

## FXC63L + BYBC63G-W1 (Decoration Panel)



Unit (mm)



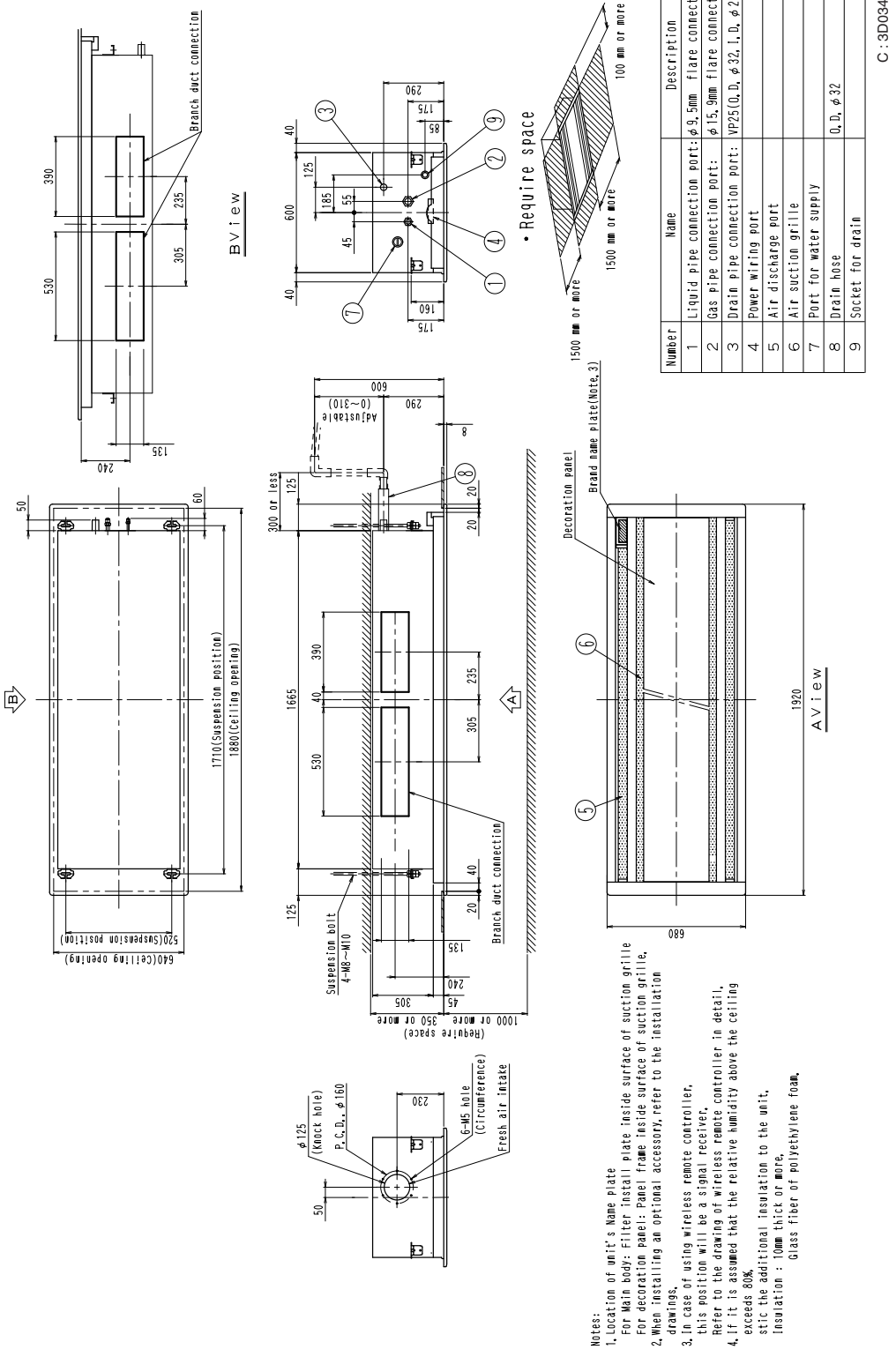

| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection port: | φ9.5mm flare connection |
| 2 | Gas pipe connection port: | φ15.9mm flare connection |
| 3 | Drain pipe connection port: | VP25(O.D. φ32, I.D. φ25) |
| 4 | Power wiring port | |
| 5 | Air discharge port | |
| 6 | Air suction grille | |
| 7 | Port for water supply | |
| 8 | Drain hose | O.D. φ32 |
| 9 | Socket for drain | |

C : 3D034338

Notes:
1. Location of unit's Name plate
   For Main body: Filter install plate inside surface of suction grille
   For decoration panel: Panel frame inside surface of suction grille.
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using wireless remote controller, this position will be a signal receiver.
   Refer to the drawing of wireless remote controller in detail.
4. If it is assumed that the relative humidity above the ceiling exceeds 80%, stic the additional insulation to the unit.
   Insulation : 10mm thick or more,
   Glass fiber of polyethylene foam,

## FXC80L + BYBC125G-W1 (Decoration Panel)

Unit (mm)




| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection port: | φ9.5mm flare connection |
| 2 | Gas pipe connection port: | φ15.9mm flare connection |
| 3 | Drain pipe connection port: | VP25(O.D. φ32, I.D. φ25) |
| 4 | Power wiring port | |
| 5 | Air discharge port | |
| 6 | Air suction grille | |
| 7 | Port for water supply | |
| 8 | Drain hose | O.D. φ32 |
| 9 | Socket for drain | |

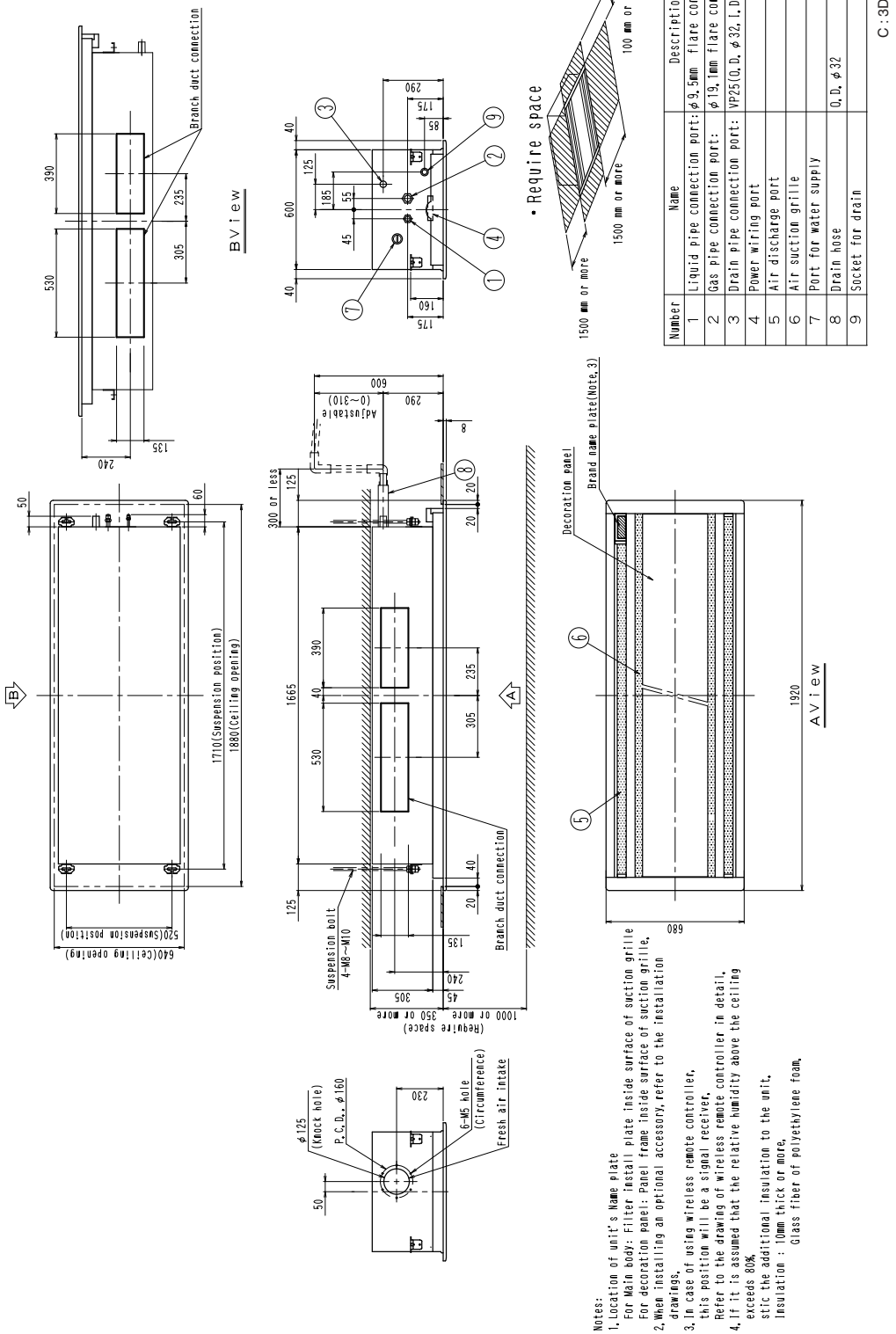
C : 3D034339

Notes:
1. Location of unit's Name plate
   For Main body: Filter install plate inside surface of suction grille
   For decoration panel: Panel frame inside surface of suction grille.
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.
4. If it is assumed that the relative humidity above the ceiling exceeds 80%, stic the additional insulation to the unit.
   Insulation : 10mm thick or more,
   Glass fiber of polyethylene foam,

## FXC125L + BYBC125G-W1 (Decoration Panel)

2

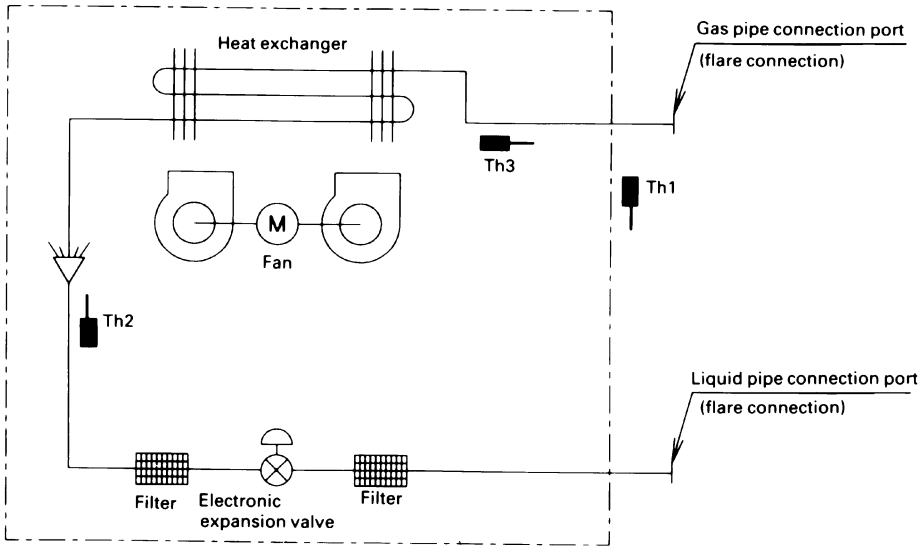
Unit (mm)




| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection port: | φ9.5mm flare connection |
| 2 | Gas pipe connection port: | φ19.1mm flare connection |
| 3 | Drain pipe connection port: | VP25(O.D. φ32.1.D. φ25) |
| 4 | Power wiring port | |
| 5 | Air discharge port | |
| 6 | Air suction grille | |
| 7 | Port for water supply | |
| 8 | Drain hose | O.D. φ32 |
| 9 | Socket for drain | |

Notes:
1. Location of unit's Name plate
   For Main body: Filter install plate inside surface of suction grille
   For decoration panel: Panel frame inside surface of suction grille.
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.
4. If it is assumed that the relative humidity above the ceiling exceeds 80%, stic the additional insulation to the unit.
   Insulation : 10mm thick or more,
   Glass fiber of polyethylene foam.

# 4. Piping Diagrams




Th1: Thermister for suction air temp.
Th2: Thermister for liquid line temp.
Th3: Thermister for gas line temp.

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■ **Refrigerant pipe connection port diameters**

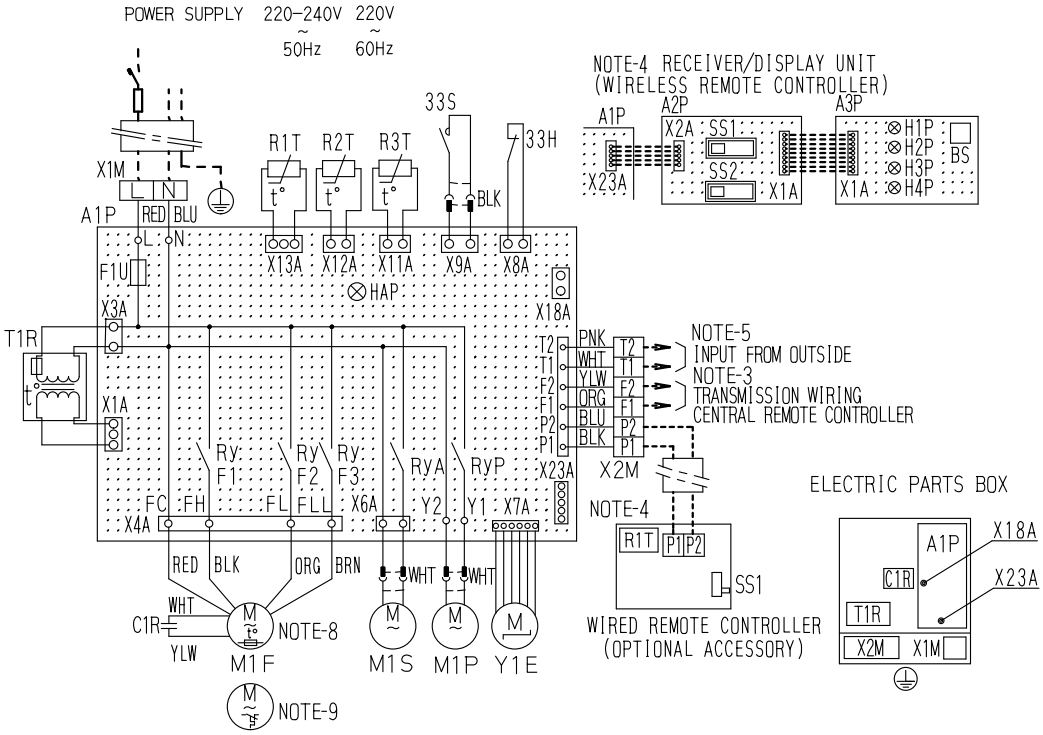
(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXC20L / 25L / 32L / 40L | ϕ12.7 | ϕ6.4 |
| FXC50L / 63L / 80L | ϕ15.9 | ϕ9.5 |
| FXC125L | ϕ19.1 | |

# 5. Wiring Diagrams



## FXC 20L / 25L / 32L / 63LVE




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 33H | FLOAT SWITCH | M1S | MOTOR (SWING FLAP) | WIRED REMOTE CONTROLLER | | H3P | LIGHT EMISSION DIODE (FILTER SIGN-RED) |
| 33S | LIMIT SWITCH (SWING FLAP) | M1P | MOTOR(DRAIN PUMP) | R1T | THERMISTOR(AIR) | | |
| A1P | PRINTED CIRCUIT BOARD | Q1F | THERMO SWITCH(130℃) (M1F EMBEDDED)(NOTE-9) | SS1 | SELECTOR SWITCH (MAIN/SUB) | H4P | LIGHT EMISSION DIODE (DEFROST-ORANGE) |
| C1R | CAPACITOR(M1F) | R1T | THERMISTOR(AIR) | RECEIVER/DISPLAY UNIT (ATTACHED TO WIRELESS REMOTE CONTROLLER) | | SS1 | SELECTOR SWITCH (MAIN/SUB) |
| F1T | THERMAL FUSE(152℃) (M1F EMBEDDED)(NOTE-8) | R2T·3T | THERMISTOR(COIL) | | | | |
| | | RyA | MAGNETIC RELAY(M1S) | A2P | PRINTED CIRCUIT BOARD | SS2 | SELECTOR SWITCH (WIRELESS ADDRESS SET) |
| F1U | FUSE(250V,5A,Ⓑ) OR F10T 250V | RyF1-3 | MAGNETIC RELAY(M1F) | A3P | PRINTED CIRCUIT BOARD | | |
| | | RyP | MAGNETIC RELAY(M1P) | BS | PUSH BUTTON(ON/OFF) | CONNECTOR FOR OPTIONAL PARTS | |
| | | T1R | TRANSFOMER(220-240V/22V) | H1P | LIGHT EMISSION DIODE (ON-RED) | X18A | CONNECTOR (WIRING ADAPTOR FOR ELECTORICAL APPENDICES) |
| HAP | LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN) | X1M | TERMINAL STRIP(POWER) | | | | |
| | | X2M | TERMINAL STRIP(CONTROL) | H2P | LIGHT EMISSION DIODE (TIMER-GREEN) | X23A | CONNECTOR (WIRELESS REMOTE CONTROLLER) |
| M1F | MOTOR(INDOOR FAN) | Y1E | ELECTRONIC EXPANSION VALVE | | | | |
| L-RED | N-BLUE | | | | | | |

NOTES) 1. □□□□:TERMINAL ⊙⊙, :CONNECTOR —○— :WIRE CLAMP
2. - - - -:FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
4. X23A IS CONNECTED WHEN THE WIRELESS REMOTE CONTROLLER KIT IS BEING USED.
5. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
6. SYMBOLS SHOWS AS FOLLOWS.
(PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE
BLU:BLUE BLK:BLACK RED:RED BRN:BROWN)
7. USE COPPER CONDUCTORS ONLY.
8. ONLY FXC63LVE.
9. ONLY FXC20·25·32LVE.

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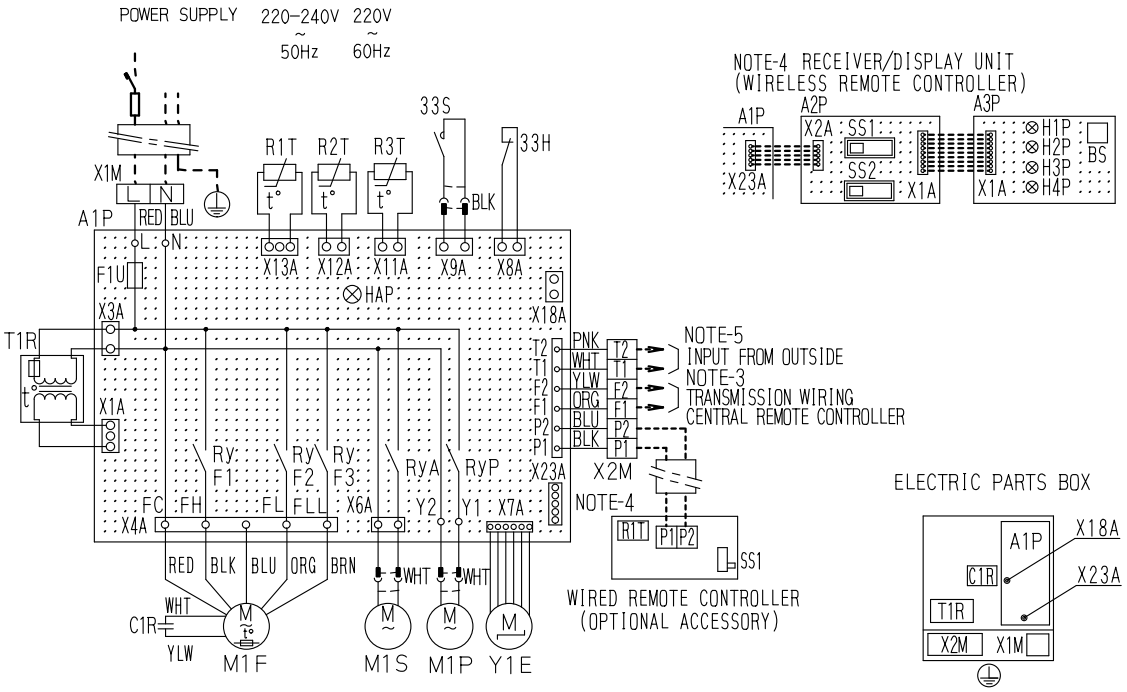
## FXC 40L / 50L / 80L / 125LVE




| | | | | | |
|---|---|---|---|---|---|
| 33H | FLOAT SWITCH | RyA | MAGNETIC RELAY(M1S) | H1P | LIGHT EMISSION DIODE (ON-RED) |
| 33S | LIMIT SWITCH (SWING FLAP) | RyF1-3 | MAGNETIC RELAY(M1F) | | |
| | | RyP | MAGNETIC RELAY(M1P) | H2P | LIGHT EMISSION DIODE (TIMER-GREEN) |
| A1P | PRINTED CIRCUIT BOARD | T1R | TRANSFOMER(220-240V/22V) | | |
| C1R | CAPACITOR(M1F) | X1M | TERMINAL STRIP(POWER) | H3P | LIGHT EMISSION DIODE (FILTER SIGN-RED) |
| F1T | THERMAL FUSE(152℃) (M1F EMBEDDED) | X2M | TERMINAL STRIP(CONTROL) | | |
| | | Y1E | ELECTRONIC EXPANSION VALVE | H4P | LIGHT EMISSION DIODE (DEFROST-ORANGE) |
| F1U | FUSE(250V,5A,Ⓑ) OR F10T 250V | WIRED REMOTE CONTROLLER | | SS1 | SELECTOR SWITCH (MAIN/SUB) |
| | | R1T | THERMISTOR(AIR) | | |
| HAP | LIGHT EMISSION DIODE (SERVICE MONITOR-GREEN) | SS1 | SELECTOR SWITCH (MAIN/SUB) | SS2 | SELECTOR SWITCH (WIRELESS ADDRESS SET) |
| M1F | MOTOR(INDOOR FAN) | RECEIVER/DISPLAY UNIT (ATTACHED TO WIRELESS REMOTE CONTROLLER) | | CONNECTOR FOR OPTIONAL PARTS | |
| M1S | MOTOR (SWING FLAP) | | | X18A | CONNECTOR (WIRING ADAPTOR FOR ELECTORICAL APPENDICES) |
| M1P | MOTOR(DRAIN PUMP) | A2P | PRINTED CIRCUIT BOARD | | |
| R1T | THERMISTOR(AIR) | A3P | PRINTED CIRCUIT BOARD | X23A | CONNECTOR (WIRELESS REMOTE CONTROLLER) |
| R2T·3T | THERMISTOR(COIL) | BS | PUSH BUTTON(ON/OFF) | | |
| L-RED N-BLUE | | | | | |

NOTES) 1. □□□□:TERMINAL ⊙⊙, :CONNECTOR —○— :WIRE CLAMP
2. - - - - :FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
4. X23A IS CONNECTED WHEN THE WIRELESS REMOTE CONTROLLER KIT IS BEING USED.
5. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
6. SYMBOLS SHOWS AS FOLLOWS.
( PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE
BLU:BLUE BLK:BLACK RED:RED BRN:BROWN )
7. USE COPPER CONDUCTORS ONLY.

3D034121

# 6. Capacity Tables

## 6.1 50Hz

### 6.1.1 Cooling Capacity

**FXC – L**

**[50Hz]** **Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.9 | 1.7 |
| | 12.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.8 | 1.7 |
| | 14.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.8 | 1.6 |
| | 16.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.8 | 1.6 |
| | 18.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.7 | 1.6 |
| | 20.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.7 | 1.6 |
| | 21.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.7 | 1.6 |
| | 23.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.6 | 1.5 |
| | 25.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.5 | 1.6 | 2.6 | 1.5 |
| | 27.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.5 | 1.6 | 2.6 | 1.5 |
| | 29.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.5 | 1.6 | 2.5 | 1.5 |
| | 31.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.4 | 1.6 | 2.5 | 1.5 |
| | 33.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.4 | 1.6 | 2.5 | 1.5 |
| | 35.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.6 | 2.4 | 1.6 | 2.4 | 1.5 |
| | 37.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.6 | 2.3 | 1.6 | 2.4 | 1.5 |
| | 39.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.2 | 1.6 | 2.3 | 1.5 | 2.3 | 1.5 |
| 25 | 10.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.7 | 2.2 |
| | 12.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.6 | 2.1 |
| | 14.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.6 | 2.1 |
| | 16.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 18.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 20.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.4 | 2.0 |
| | 21.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.4 | 2.0 |
| | 23.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.4 | 2.0 |
| | 25.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.3 | 2.0 |
| | 27.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.3 | 2.0 |
| | 29.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.0 | 3.2 | 1.9 |
| | 31.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.0 | 3.2 | 1.9 |
| | 33.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.0 | 3.1 | 1.9 |
| | 35.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.0 | 3.1 | 1.9 |
| | 37.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.0 | 3.0 | 1.9 |
| | 39.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 2.9 | 2.1 | 2.9 | 2.0 | 3.0 | 1.9 |
| 32 | 10.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.7 |
| | 12.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.6 | 2.7 |
| | 14.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.6 | 2.6 |
| | 16.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.5 | 2.6 |
| | 18.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.5 | 2.6 |
| | 20.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.4 | 2.5 |
| | 21.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.4 | 2.5 |
| | 23.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.2 | 2.6 | 4.3 | 2.5 |
| | 25.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.2 | 2.6 | 4.3 | 2.5 |
| | 27.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.1 | 2.5 | 4.2 | 2.4 |
| | 29.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.0 | 2.5 | 4.1 | 2.4 |
| | 31.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.0 | 2.5 | 4.1 | 2.4 |
| | 33.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 3.9 | 2.5 | 4.0 | 2.4 |
| | 35.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 3.9 | 2.5 | 4.0 | 2.4 |
| | 37.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.7 | 2.6 | 3.8 | 2.5 | 3.9 | 2.3 |
| | 39.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.7 | 2.6 | 3.8 | 2.4 | 3.8 | 2.3 |
| 40 | 10.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.9 | 3.3 |
| | 12.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.8 | 3.2 |
| | 14.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.7 | 3.2 |
| | 16.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.6 | 3.2 |
| | 18.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.6 | 3.1 |
| | 20.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.5 | 3.1 |
| | 21.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.5 | 3.1 |
| | 23.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.4 | 3.0 |
| | 25.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.2 | 3.2 | 5.3 | 3.0 |
| | 27.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.1 | 3.1 | 5.2 | 3.0 |
| | 29.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.1 | 3.1 | 5.2 | 2.9 |
| | 31.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.0 | 3.1 | 5.1 | 2.9 |
| | 33.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 4.9 | 3.0 | 5.0 | 2.9 |
| | 35.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.7 | 3.2 | 4.8 | 3.0 | 4.9 | 2.9 |
| | 37.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.7 | 3.1 | 4.8 | 3.0 | 4.9 | 2.9 |
| | 39.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.6 | 3.1 | 4.7 | 3.0 | 4.8 | 2.8 |

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.3 | 3.9 |
| | 12.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.2 | 3.9 |
| | 14.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.1 | 3.8 |
| | 16.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.0 | 3.8 |
| | 18.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 6.9 | 3.7 |
| | 20.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 6.8 | 3.7 |
| | 21.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 6.8 | 3.6 |
| | 23.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.8 | 6.7 | 3.6 |
| | 25.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.5 | 3.8 | 6.6 | 3.6 |
| | 27.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.4 | 3.7 | 6.5 | 3.5 |
| | 29.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.3 | 3.7 | 6.4 | 3.5 |
| | 31.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.2 | 3.6 | 6.3 | 3.5 |
| | 33.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.1 | 3.6 | 6.2 | 3.4 |
| | 35.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.7 | 6.0 | 3.6 | 6.2 | 3.4 |
| | 37.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.8 | 3.7 | 5.9 | 3.5 | 6.1 | 3.4 |
| | 39.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.7 | 3.7 | 5.8 | 3.5 | 6.0 | 3.3 |
| 63 | 10.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.3 | 5.0 |
| | 12.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.1 | 4.9 |
| | 14.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.0 | 4.9 |
| | 16.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 8.9 | 4.8 |
| | 18.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 8.8 | 4.8 |
| | 20.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 8.7 | 4.7 |
| | 21.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 8.6 | 4.7 |
| | 23.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.3 | 4.9 | 8.5 | 4.6 |
| | 25.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.2 | 4.8 | 8.4 | 4.6 |
| | 27.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.1 | 4.8 | 8.3 | 4.5 |
| | 29.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.0 | 4.7 | 8.2 | 4.5 |
| | 31.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 7.9 | 4.7 | 8.0 | 4.4 |
| | 33.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 7.8 | 4.6 | 7.9 | 4.4 |
| | 35.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 7.6 | 4.6 | 7.8 | 4.4 |
| | 37.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.4 | 4.8 | 7.5 | 4.5 | 7.7 | 4.3 |
| | 39.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.2 | 4.7 | 7.4 | 4.5 | 7.6 | 4.3 |
| 80 | 10.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.7 | 6.6 |
| | 12.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.6 | 6.6 |
| | 14.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.4 | 6.5 |
| | 16.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.3 | 6.4 |
| | 18.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.1 | 6.3 |
| | 20.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.0 | 6.2 |
| | 21.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 10.9 | 6.2 |
| | 23.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.6 | 6.6 | 10.8 | 6.1 |
| | 25.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.4 | 6.5 | 10.6 | 6.0 |
| | 27.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.3 | 6.4 | 10.5 | 6.0 |
| | 29.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.1 | 6.3 | 10.3 | 6.0 |
| | 31.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.0 | 6.3 | 10.2 | 5.9 |
| | 33.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 9.8 | 6.2 | 10.0 | 5.9 |
| | 35.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.5 | 6.5 | 9.7 | 6.2 | 9.9 | 5.8 |
| | 37.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.3 | 6.4 | 9.5 | 6.1 | 9.7 | 5.8 |
| | 39.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.5 | 9.2 | 6.3 | 9.4 | 6.1 | 9.6 | 5.8 |
| 125 | 10.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 18.3 | 10.3 |
| | 12.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 18.0 | 10.1 |
| | 14.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 17.8 | 10.0 |
| | 16.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 17.6 | 9.9 |
| | 18.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 17.3 | 9.7 |
| | 20.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 17.1 | 9.6 |
| | 21.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 17.0 | 9.5 |
| | 23.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.4 | 10.0 | 16.8 | 9.4 |
| | 25.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.2 | 9.9 | 16.5 | 9.4 |
| | 27.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.0 | 9.8 | 16.3 | 9.3 |
| | 29.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 15.7 | 9.6 | 16.1 | 9.2 |
| | 31.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 15.5 | 9.6 | 15.8 | 9.2 |
| | 33.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 15.3 | 9.5 | 15.6 | 9.1 |
| | 35.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.7 | 9.8 | 15.1 | 9.4 | 15.4 | 9.0 |
| | 37.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.5 | 9.7 | 14.8 | 9.3 | 15.1 | 8.9 |
| | 39.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.8 | 14.3 | 9.6 | 14.6 | 9.2 | 14.9 | 8.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.1.2 Heating Capacity



### FXC-L

**[50Hz]** **Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| | -12.6 | -13.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -10.5 | -11.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -9.5 | -10.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -8.5 | -9.1 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -7.0 | -7.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -5.0 | -5.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -3.0 | -3.7 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | 0.0 | -0.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 3.0 | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -12.6 | -13.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -10.5 | -11.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | -9.5 | -10.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -8.5 | -9.1 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -7.0 | -7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -5.0 | -5.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -3.0 | -3.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | 0.0 | -0.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 3.0 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -12.6 | -13.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -10.5 | -11.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | -9.5 | -10.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -8.5 | -9.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -7.0 | -7.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -5.0 | -5.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -3.0 | -3.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | 0.0 | -0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 3.0 | 2.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.4 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -12.6 | -13.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -10.5 | -11.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -9.5 | -10.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -8.5 | -9.1 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| | -7.0 | -7.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -5.0 | -5.6 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -3.0 | -3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | 0.0 | -0.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 3.0 | 2.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.5 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.7 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## [50Hz]

**Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -12.6 | -13.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | -10.5 | -11.0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| | -9.5 | -10.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| | -8.5 | -9.1 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | -7.0 | -7.6 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -5.0 | -5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -3.0 | -3.7 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | 0.0 | -0.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 3.0 | 2.2 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.1 | 6.1 | 6.1 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 6.9 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.1 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 80 | -14.7 | -15.0 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| | -12.6 | -13.0 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | -10.5 | -11.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| | -9.5 | -10.0 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| | -8.5 | -9.1 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| | -7.0 | -7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| | -5.0 | -5.6 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| | -3.0 | -3.7 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| | 0.0 | -0.7 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.4 |
| | 3.0 | 2.2 | 9.3 | 9.3 | 9.3 | 9.3 | 9.2 | 8.4 |
| | 5.0 | 4.1 | 9.6 | 9.6 | 9.6 | 9.6 | 9.2 | 8.4 |
| | 7.0 | 6.0 | 10.0 | 10.0 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 9.0 | 7.9 | 10.3 | 10.3 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 11.0 | 9.8 | 10.6 | 10.6 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 13.0 | 11.8 | 11.0 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 15.0 | 13.7 | 11.3 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| 125 | -14.7 | -15.0 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| | -12.6 | -13.0 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| | -10.5 | -11.0 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| | -9.5 | -10.0 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| | -8.5 | -9.1 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | -7.0 | -7.6 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| | -5.0 | -5.6 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| | -3.0 | -3.7 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |
| | 0.0 | -0.7 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 13.5 |
| | 3.0 | 2.2 | 14.9 | 14.9 | 14.9 | 14.9 | 14.7 | 13.5 |
| | 5.0 | 4.1 | 15.4 | 15.4 | 15.4 | 15.3 | 14.7 | 13.5 |
| | 7.0 | 6.0 | 16.0 | 16.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 9.0 | 7.9 | 16.5 | 16.5 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 11.0 | 9.8 | 17.0 | 17.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 13.0 | 11.8 | 17.5 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 15.0 | 13.7 | 18.1 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2 60Hz

### 6.2.1 Cooling Capacity



**FXC – L**

**[60Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. 14.0°CWB / 20°CDB | | 16.0°CWB / 23°CDB | | 18.0°CWB / 26°CDB | | 19.0°CWB / 27°CDB | | 20.0°CWB / 28°CDB | | 22.0°CWB / 30°CDB | | 24.0°CWB / 32°CDB | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.9 | 1.7 |
| | 12.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.9 | 1.7 |
| | 14.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.9 | 1.7 |
| | 16.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.9 | 1.7 |
| | 18.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.9 | 1.7 |
| | 20.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.9 | 1.7 |
| | 21.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.9 | 1.7 |
| | 23.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.8 | 1.7 |
| | 25.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.8 | 1.7 |
| | 27.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.8 | 1.6 |
| | 29.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.7 | 1.6 |
| | 31.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.7 | 1.6 |
| | 33.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.7 | 1.6 |
| | 35.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.6 | 1.7 | 2.6 | 1.6 |
| | 37.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.5 | 1.7 | 2.6 | 1.6 |
| | 39.0 | 1.5 | 1.4 | 1.8 | 1.5 | 2.1 | 1.6 | 2.2 | 1.6 | 2.3 | 1.7 | 2.5 | 1.7 | 2.5 | 1.6 |
| 25 | 10.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.7 | 2.2 |
| | 12.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.7 | 2.2 |
| | 14.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.7 | 2.2 |
| | 16.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.7 | 2.2 |
| | 18.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.7 | 2.2 |
| | 20.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.7 | 2.2 |
| | 21.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.7 | 2.2 |
| | 23.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.6 | 2.2 |
| | 25.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.6 | 2.1 |
| | 27.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 29.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 31.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.4 | 2.1 |
| | 33.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.4 | 2.1 |
| | 35.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.3 | 2.1 |
| | 37.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.3 | 2.1 |
| | 39.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 | 2.8 | 2.1 | 3.0 | 2.2 | 3.2 | 2.1 | 3.2 | 2.0 |
| 32 | 10.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.7 |
| | 12.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.7 |
| | 14.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.7 |
| | 16.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.7 |
| | 18.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.7 |
| | 20.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.7 |
| | 21.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.7 |
| | 23.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.7 |
| | 25.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.6 | 2.7 |
| | 27.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.6 | 4.5 | 2.6 |
| | 29.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.7 | 4.5 | 2.6 |
| | 31.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.7 | 4.4 | 2.6 |
| | 33.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.3 | 2.7 | 4.3 | 2.6 |
| | 35.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.2 | 2.7 | 4.3 | 2.6 |
| | 37.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.1 | 2.7 | 4.2 | 2.5 |
| | 39.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.7 | 4.1 | 2.6 | 4.2 | 2.5 |
| 40 | 10.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.9 | 3.3 |
| | 12.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.9 | 3.3 |
| | 14.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.9 | 3.3 |
| | 16.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.9 | 3.3 |
| | 18.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.9 | 3.3 |
| | 20.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.9 | 3.3 |
| | 21.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.9 | 3.3 |
| | 23.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.8 | 3.3 |
| | 25.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.7 | 3.2 |
| | 27.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.7 | 3.2 |
| | 29.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.2 | 5.6 | 3.2 |
| | 31.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.5 | 3.2 |
| | 33.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.3 | 3.3 | 5.4 | 3.1 |
| | 35.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.2 | 3.3 | 5.4 | 3.1 |
| | 37.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.2 | 3.2 | 5.3 | 3.1 |
| | 39.0 | 3.1 | 2.6 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.1 | 3.2 | 5.2 | 3.1 |

## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.3 | 3.9 |
| | 12.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.3 | 3.9 |
| | 14.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.3 | 3.9 |
| | 16.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.3 | 3.9 |
| | 18.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.3 | 3.9 |
| | 20.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.3 | 3.9 |
| | 21.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.3 | 3.9 |
| | 23.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.3 | 3.9 |
| | 25.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.2 | 3.8 |
| | 27.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.1 | 3.8 |
| | 29.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 7.0 | 3.8 |
| | 31.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 6.9 | 3.7 |
| | 33.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.6 | 3.9 | 6.8 | 3.7 |
| | 35.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.5 | 3.9 | 6.7 | 3.7 |
| | 37.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.4 | 3.8 | 6.6 | 3.6 |
| | 39.0 | 3.9 | 3.0 | 4.6 | 3.3 | 5.3 | 3.6 | 5.6 | 3.7 | 5.9 | 3.8 | 6.3 | 3.8 | 6.5 | 3.6 |
| 63 | 10.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.3 | 5.0 |
| | 12.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.3 | 5.0 |
| | 14.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.3 | 5.0 |
| | 16.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.3 | 5.0 |
| | 18.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.3 | 5.0 |
| | 20.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.3 | 5.0 |
| | 21.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.3 | 5.0 |
| | 23.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.2 | 5.0 |
| | 25.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 9.1 | 4.9 |
| | 27.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 4.9 | 8.9 | 4.9 |
| | 29.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 5.0 | 8.8 | 4.9 |
| | 31.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 5.0 | 8.7 | 4.8 |
| | 33.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.8 | 8.4 | 5.0 | 8.6 | 4.8 |
| | 35.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.9 | 8.3 | 4.9 | 8.4 | 4.7 |
| | 37.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.9 | 8.1 | 4.9 | 8.3 | 4.7 |
| | 39.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 4.7 | 7.1 | 4.9 | 7.5 | 4.9 | 8.0 | 4.8 | 8.2 | 4.6 |
| 80 | 10.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.8 | 6.7 |
| | 12.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.8 | 6.7 |
| | 14.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.8 | 6.7 |
| | 16.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.8 | 6.7 |
| | 18.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.8 | 6.7 |
| | 20.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.8 | 6.7 |
| | 21.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.8 | 6.7 |
| | 23.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.7 | 6.6 |
| | 25.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.5 | 6.5 |
| | 27.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.6 | 11.3 | 6.5 |
| | 29.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.7 | 11.2 | 6.4 |
| | 31.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.7 | 6.7 | 11.0 | 6.4 |
| | 33.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.6 | 6.7 | 10.9 | 6.4 |
| | 35.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.5 | 6.7 | 10.7 | 6.3 |
| | 37.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.4 | 9.6 | 6.5 | 10.3 | 6.6 | 10.5 | 6.3 |
| | 39.0 | 6.2 | 5.3 | 7.3 | 5.8 | 8.4 | 6.3 | 9.0 | 6.5 | 9.6 | 6.6 | 10.2 | 6.6 | 10.4 | 6.2 |
| 125 | 10.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 18.3 | 10.3 |
| | 12.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 18.3 | 10.3 |
| | 14.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 18.3 | 10.3 |
| | 16.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 18.3 | 10.3 |
| | 18.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 18.3 | 10.3 |
| | 20.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 18.3 | 10.3 |
| | 21.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 18.3 | 10.3 |
| | 23.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 18.1 | 10.2 |
| | 25.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 17.9 | 10.2 |
| | 27.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.1 | 17.6 | 10.1 |
| | 29.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.2 | 17.4 | 10.0 |
| | 31.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.6 | 10.3 | 17.1 | 9.9 |
| | 33.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.5 | 10.3 | 16.9 | 9.8 |
| | 35.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 9.9 | 16.3 | 10.1 | 16.6 | 9.7 |
| | 37.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.7 | 14.9 | 10.0 | 16.0 | 10.1 | 16.4 | 9.6 |
| | 39.0 | 9.7 | 7.9 | 11.4 | 8.7 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.0 | 15.8 | 9.9 | 16.1 | 9.5 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2.2 Heating Capacity



### FXC-L

**[60Hz]** **Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -12.6 | -13.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -10.5 | -11.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -9.5 | -10.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -8.5 | -9.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -7.0 | -7.6 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -5.0 | -5.6 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | -3.0 | -3.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 0.0 | -0.7 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 3.0 | 2.2 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -12.6 | -13.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -10.5 | -11.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -9.5 | -10.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -8.5 | -9.1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -7.0 | -7.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -5.0 | -5.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -3.0 | -3.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 0.0 | -0.7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 3.0 | 2.2 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -12.6 | -13.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -10.5 | -11.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -9.5 | -10.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -8.5 | -9.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -7.0 | -7.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | -5.0 | -5.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| | -3.0 | -3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 0.0 | -0.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 3.0 | 2.2 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.5 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -12.6 | -13.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -10.5 | -11.0 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| | -9.5 | -10.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -8.5 | -9.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -7.0 | -7.6 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| | -5.0 | -5.6 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| | -3.0 | -3.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 0.0 | -0.7 | 4.8 | 4.8 | 4.8 | 4.8 | 4.6 | 4.2 |
| | 3.0 | 2.2 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.6 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## [60Hz]

**Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | -12.6 | -13.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | -10.5 | -11.0 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -9.5 | -10.0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| | -8.5 | -9.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -7.0 | -7.6 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | -5.0 | -5.6 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.3 |
| | -3.0 | -3.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 0.0 | -0.7 | 6.0 | 6.0 | 6.0 | 6.0 | 5.8 | 5.3 |
| | 3.0 | 2.2 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 7.0 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 7.2 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | -12.6 | -13.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -10.5 | -11.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | -9.5 | -10.0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -8.5 | -9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -7.0 | -7.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| | -5.0 | -5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | -3.0 | -3.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.8 |
| | 0.0 | -0.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.4 | 6.8 |
| | 3.0 | 2.2 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.9 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 9.2 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 80 | -14.7 | -15.0 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| | -12.6 | -13.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| | -10.5 | -11.0 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| | -9.5 | -10.0 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| | -8.5 | -9.1 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| | -7.0 | -7.6 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| | -5.0 | -5.6 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.4 |
| | -3.0 | -3.7 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.4 |
| | 0.0 | -0.7 | 9.4 | 9.4 | 9.4 | 9.4 | 9.2 | 8.4 |
| | 3.0 | 2.2 | 10.0 | 10.0 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 5.0 | 4.1 | 10.3 | 10.3 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 7.0 | 6.0 | 10.7 | 10.7 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 9.0 | 7.9 | 11.1 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 11.0 | 9.8 | 11.4 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 13.0 | 11.8 | 11.6 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 15.0 | 13.7 | 11.6 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| 125 | -14.7 | -15.0 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| | -12.6 | -13.0 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| | -10.5 | -11.0 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| | -9.5 | -10.0 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 |
| | -8.5 | -9.1 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 |
| | -7.0 | -7.6 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 |
| | -5.0 | -5.6 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.5 |
| | -3.0 | -3.7 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 13.5 |
| | 0.0 | -0.7 | 15.1 | 15.1 | 15.1 | 15.1 | 14.7 | 13.5 |
| | 3.0 | 2.2 | 16.0 | 16.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 5.0 | 4.1 | 16.5 | 16.5 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 7.0 | 6.0 | 17.1 | 17.1 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 9.0 | 7.9 | 17.6 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 11.0 | 9.8 | 18.2 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 13.0 | 11.8 | 18.4 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 15.0 | 13.7 | 18.4 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

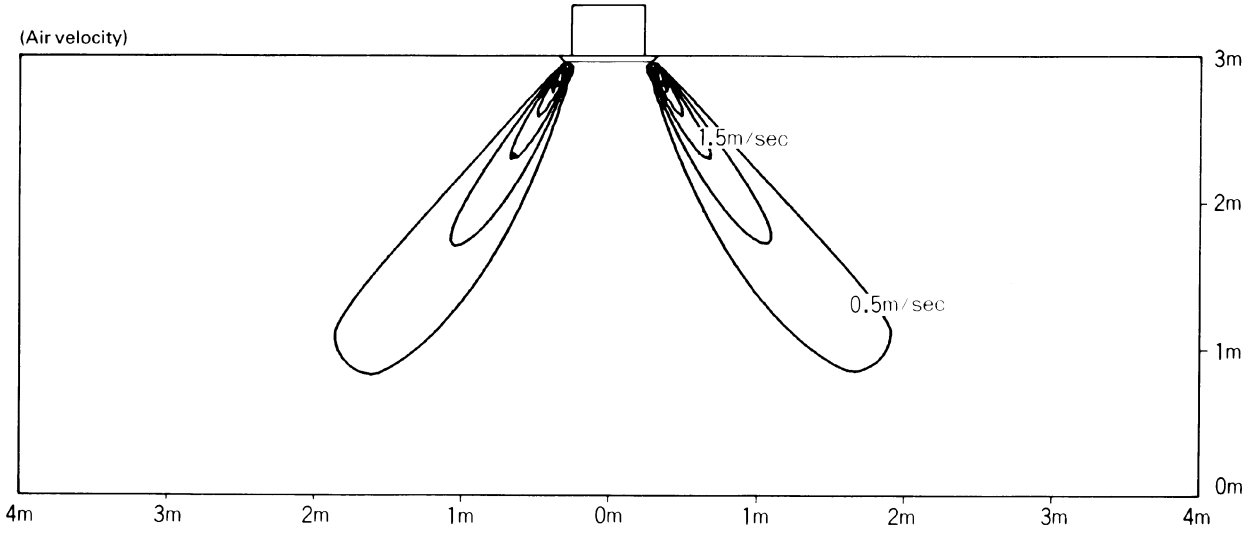
Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

# 7. Air Velocity and Temperature Distributions (Reference Data)



**FXC63L**

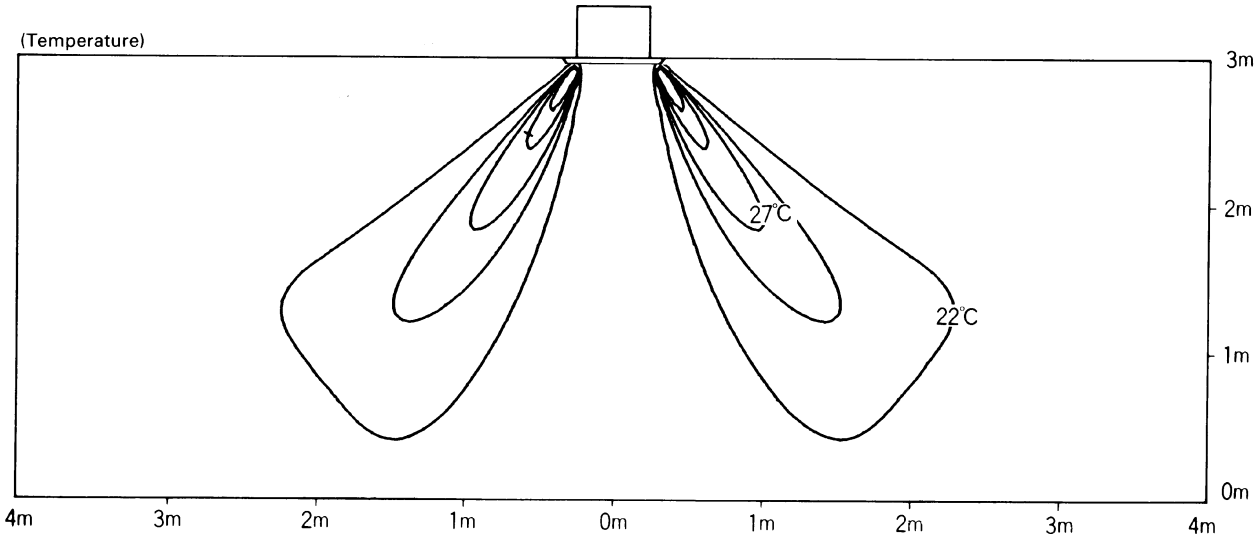
**(Heating·Air Velocity Distribution)**
**Discharge Angle : 60°**




(V0452)

**FXC63L**

**(Heating·Temperature Distribution)**
**Discharge Angle : 60°**

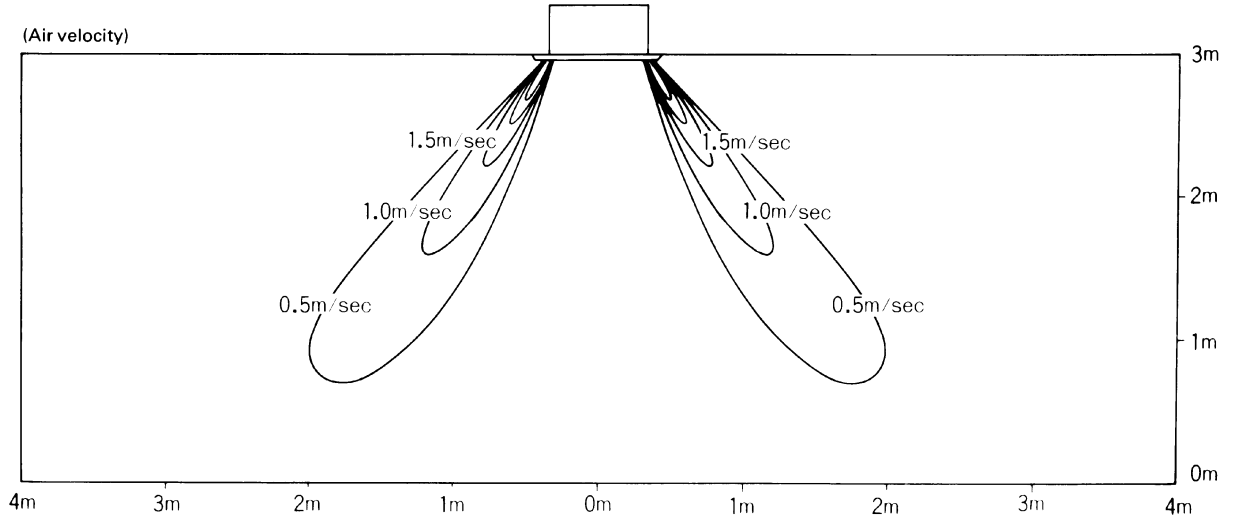



(V0453)

**Note:**
The standard setup height of the double -flow type is 3m maximum. Shown here is the measurement distribution at the ceiling height of 3m.

**FXC125L**

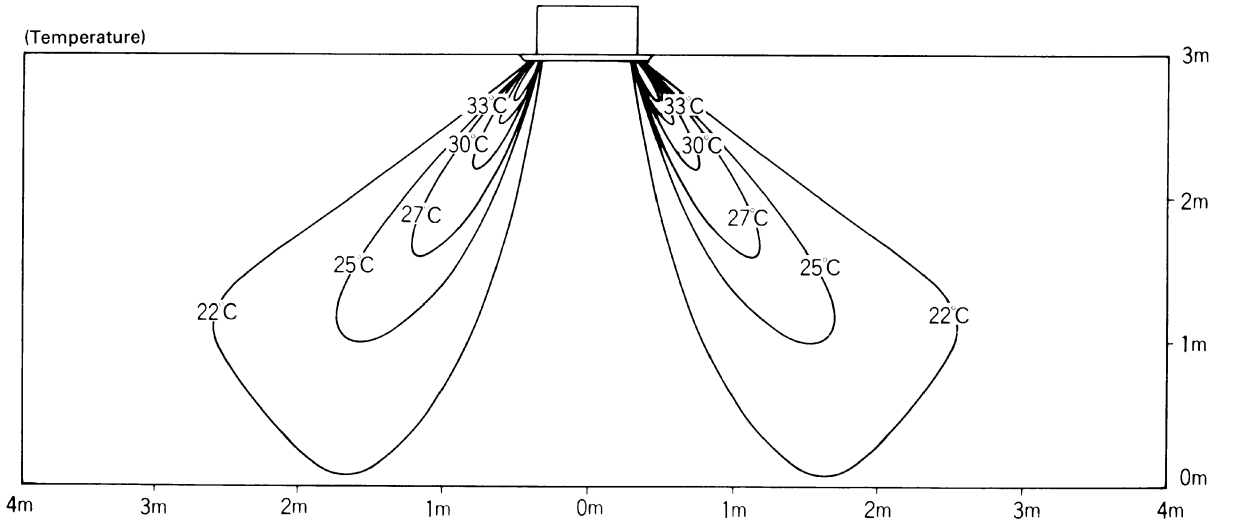
**(Heating·Air Velocity Distribution)**
**Discharge Angle : 60°**




(V0454)

**FXC125L**

**(Heating·Temperature Distribution)**
**Discharge Angle : 60°**




(V0455)

**Note:**
The standard setup height of the double-flow type is 3m maximum. Shown here is the measurement distribution at the ceiling height of 3m.

# 8. Electric Characteristics



| Units | | | | | Power supply | | IFM | | Input(W) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Type | Hz | Volts | Voltage range | MCA | MFA | KW | FLA | Cooling | Heating |
| FXC20L, FXCQ20M | VE | 50 | 220-240 | MAX. 264 Min. 198 | 0.5 | 15 | 0.010 | 0.4 | 77 | 44 |
| FXC25・32L, FXCQ25・32M | | | | | 0.5 | 15 | 0.015 | 0.4 | 92 | 59 |
| FXC40・50L, FXCQ40・50M | | | | | 0.8 | 15 | 0.020 | 0.6 | 130 | 97 |
| FXC63L, FXCQ63M | | | | | 0.9 | 15 | 0.030 | 0.7 | 161 | 126 |
| FXC80L, FXCQ80M | | | | | 1.1 | 15 | 0.050 | 0.9 | 209 | 176 |
| FXC125L, FXCQ125M | | | | | 1.3 | 15 | 0.085 | 1.0 | 256 | 223 |
| FXC20L, FXCQ20M | VE | 60 | 220 | MAX. 242 Min. 198 | 0.5 | 15 | 0.010 | 0.4 | 81 | 48 |
| FXC25・32L, FXCQ25・32M | | | | | 0.5 | 15 | 0.015 | 0.4 | 95 | 62 |
| FXC40・50L, FXCQ40・50M | | | | | 0.8 | 15 | 0.020 | 0.6 | 132 | 99 |
| FXC63L, FXCQ63M | | | | | 0.9 | 15 | 0.030 | 0.7 | 157 | 124 |
| FXC80L, FXCQ80M | | | | | 1.3 | 15 | 0.050 | 1.0 | 216 | 183 |
| FXC125L, FXCQ125M | | | | | 1.5 | 15 | 0.085 | 1.2 | 278 | 245 |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
KW : Fan Motor Rated Output(KW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range

   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

   MCA = 1.25 X FLA

   MFA ≦ 4 X FLA
   (Next lower standard fuse rating. Min. 15A)

4. Select wire size based on the MCA.

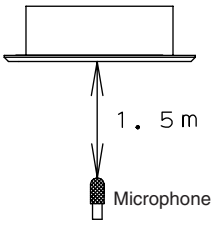
5. Instead of fuse, use Circuit Breaker.

4D034243A

# 9. Sound Levels

## Overall

■ **Ceiling Mounted Cassette Type (Double Flow Type)**




(V0470)

**Notes:**

1. The operating conditions are assumed to be standard (JIS conditions)
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

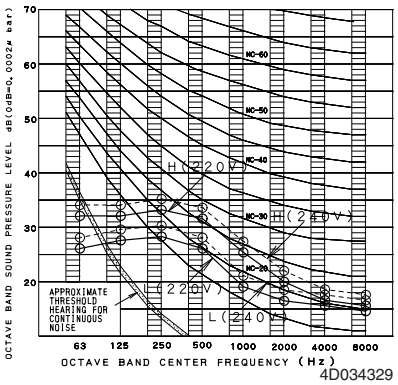
dBA

| Model | 220V 50/60Hz | | 240V 50Hz | |
|---|---|---|---|---|
| | H | L | H | L |
| FXC20L | 32 | 27 | 34 | 29 |
| FXC25L<br>FXC32L | 34 | 28 | 36 | 30 |
| FXC40L<br>FXC50L | 34 | 29 | 37 | 32 |
| FXC63L | 37 | 32 | 39 | 34 |
| FXC80L | 39 | 34 | 41 | 36 |
| FXC125L | 44 | 38 | 46 | 40 |

## Octave Band Level

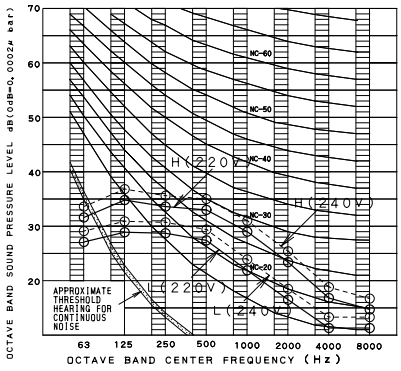
○——○ 220V
○- - - -○ 240V

**FXC20LVE**



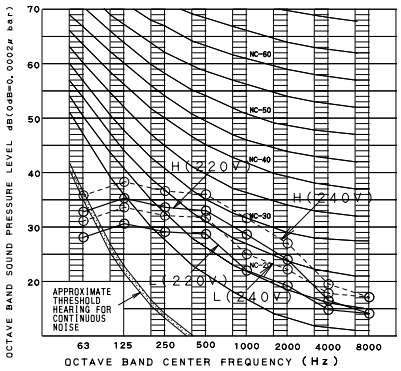

4D034329

**FXC25L·32LVE**



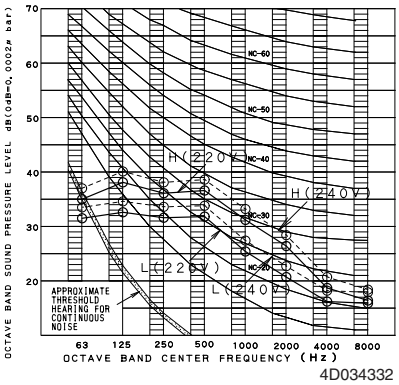

4D034330

**FXC40·50LVE**



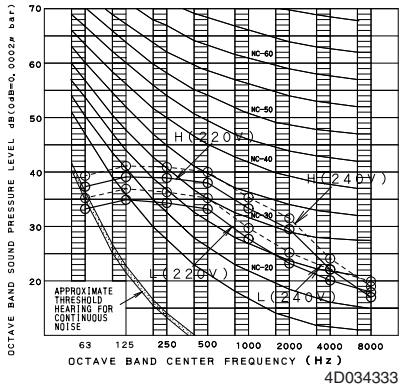

4D034331

**FXC63LVE**



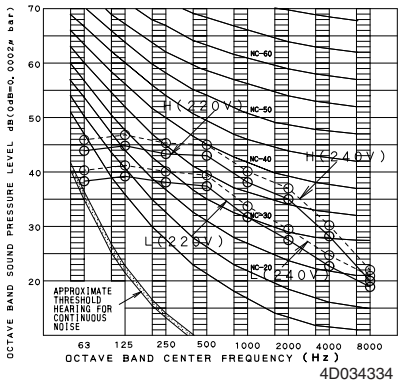

4D034332

**FXC80LVE**




4D034333

**FXC125LVE**



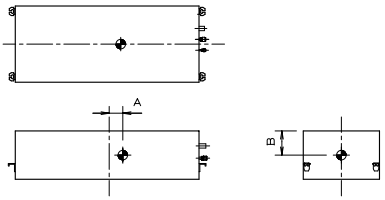

4D034334

# 10. Installation



## Center of Gravity

Unit (mm)




| MODEL | A | B |
|---|---|---|
| FXC20 • 25 • 32LVE | 20 | 140 |
| FXC40 • 50LVE | 25 | |
| FXC63LVE | 30 | |
| FXC80 • 125LVE | 35 | 150 |

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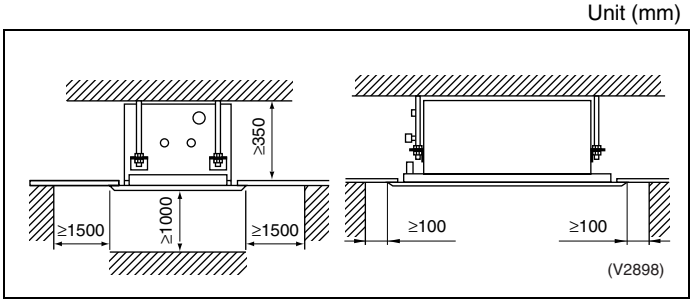
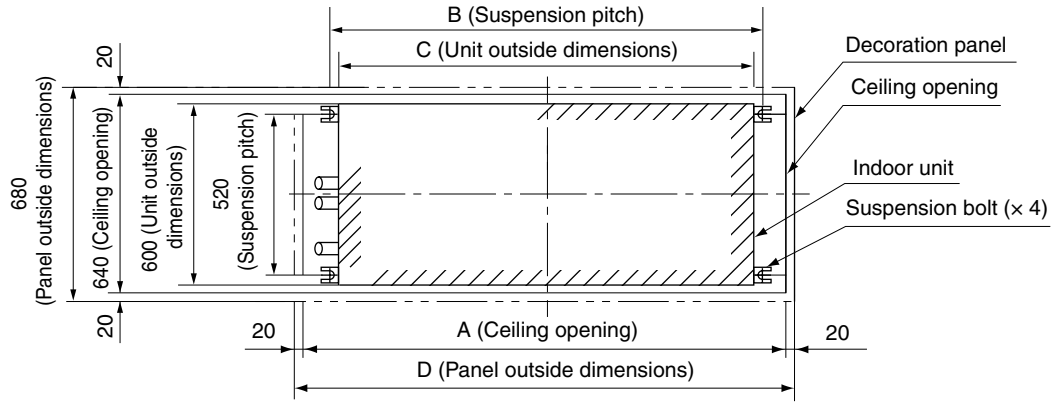
## Service Space

Unit (mm)




**Note:**
Above figure means minimum value. Please keep these value at least.

## Bolt Pitch




| Model | A | B | C | D |
|---|---|---|---|---|
| FXC20 · 25 · 32L | 990 | 820 | 780 | 1030 |
| FXC40 · 50L | 1205 | 1035 | 995 | 1245 |
| FXC63L | 1390 | 1220 | 1180 | 1430 |
| FXC80 · 125L | 1880 | 1710 | 1670 | 1920 |

(V2899)

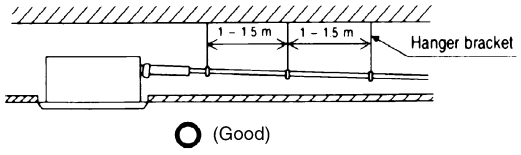
## Drain Pump Kit

| Indoor unit | Drain pump kit |
|---|---|
| FXC~L | Standard (Equipped with indoor unit) |

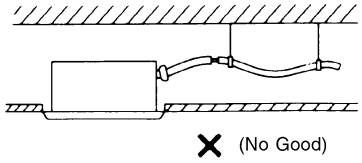
## Drain Piping

### 1. Rig drain piping

- The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe (vinyl tube, pipe size: 25 mm; outer dimension: 32 mm).
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air pockets from forming.
- If the drain hose cannot be sufficiently set on a slope, execute the drain raising piping.
- To keep the drain hose from sagging, space hanging wires every 1 to 1.5 m.

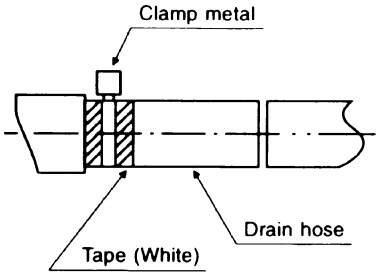



(V0615)

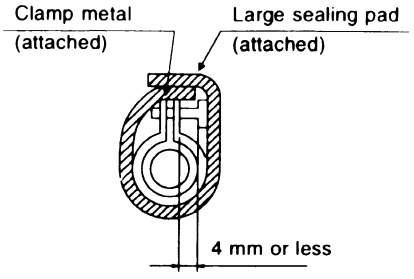



(V0616)

- Use the attached drain hose and clamp metal.
  Insert the drain hose into the drain socket, up to the white tape. Tighten the clamp until the screw head is less than 4mm from the hose.
- Wrap the attached sealing pad over the clamp and drain hose to insulate.
- Insulate the drain hose inside the building.



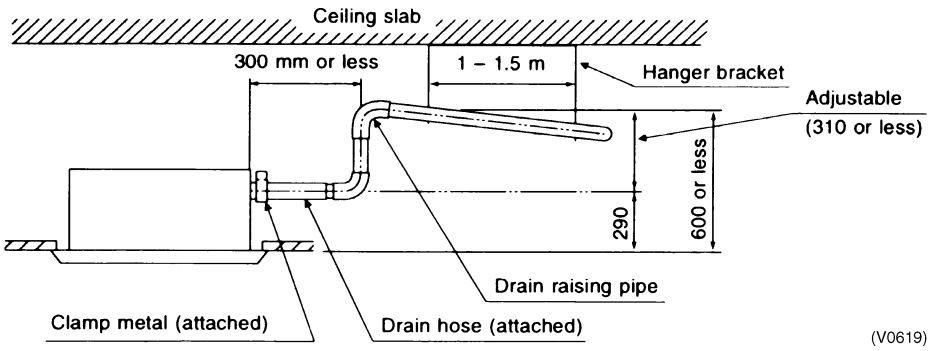

(V0617)



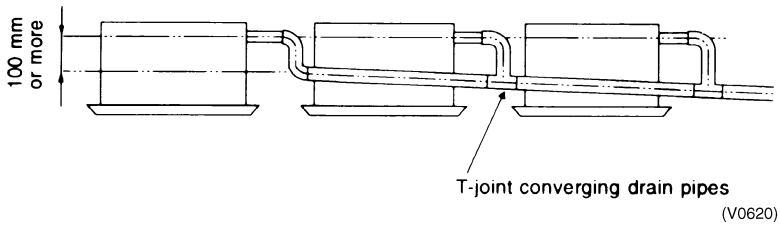

(V0618)

**(PRECAUTIONS FOR DRAIN RAISING PIPING)**

- Install the drain raising pipes at a height of less than 310 mm.
- Install the drain raising pipes at a right angle to the indoor unit and no more than 300 mm from the unit.



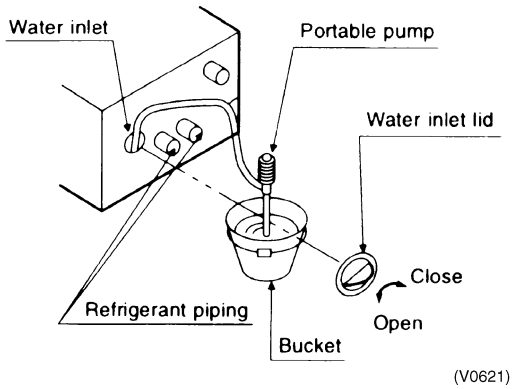

- If converging multiple drain pipes, install according to the procedure shown below.




Select converging drain pipes whose gauge is suitable for the operating capacity of the unit.

**2. After piping work is finished, check drainage flows smoothly.**

- Open the water inlet lid, add approximately 2500 cc of water gradually and check drainage flow.

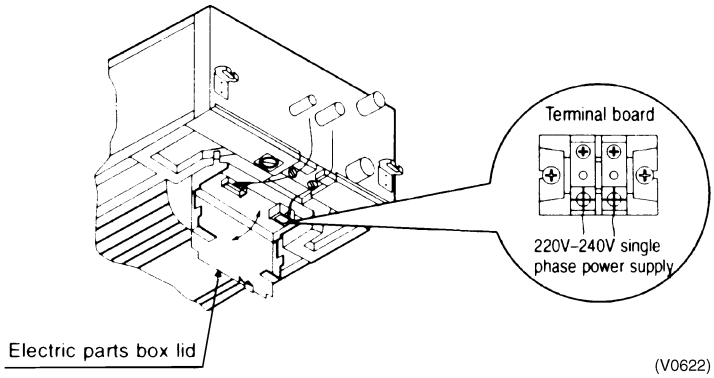



## WHEN ELECTRIC WIRING WORK IS FINISHED

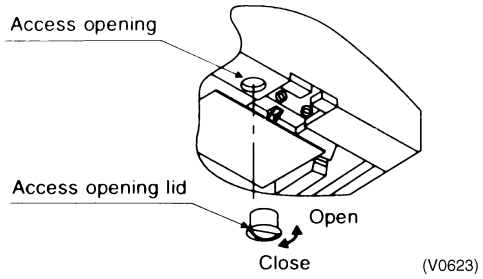
- Check drainage flow during COOL running, explained under “TEST OPERATION”.

## WHEN ELECTRIC WIRING WORK IS NOT FINISHED

- Remove the electric parts box lid, connect a power supply and remote controller to the terminals. (Refer to the **How to CONNECT WIRINGS** (Refer to Installation Manual))
  Next, press the inspection/test operation button " TEST " on the remote controller. The unit will engage the test operation mode. Press the operation mode selector button " " until selecting FAN OPERATION " ". Then, press the ON/OFF button " ". The indoor unit fan and drain pump will start up. Check that the water has drained from the unit. Press " TEST " to go back to the first mode.




- You can check whether drainage is satisfactory or not by removing the access opening lid and checking the water level of the drain pan through the access opening.
- **Be careful when doing so because the fan is turning at the same time.**

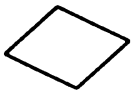
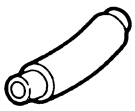
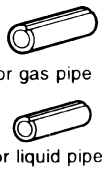
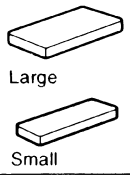


# 11. Accessories



## Standard Accessories

**FXC20L~125L**

| Name | Clamp metal | Paper pattern for installation | Drain hose | Insulation for fitting | Washer fixing plate | Sealing pad |
|---|---|---|---|---|---|---|
| Quantity | 1 pc. | 1 pc. | 1 pc. | 1 pc. | 4 pcs. | 1 each |
| Shape | |  |  |  for gas pipe for liquid pipe | |  Large Small |

| Name | Washer for hanging bracket | Clamp | Screws (M5) | (Other) |
|---|---|---|---|---|
| Quantity | 8 pcs. | 5 pcs. | 4 pcs. | • Operation manual<br>• Installation manual<br>• **C-cup washer** |
| Shape | | | For paper pattern for installation | |

• Screws for fixing panels are attached to decoration panel.

3P086156

## Optional Accessories (For Unit)

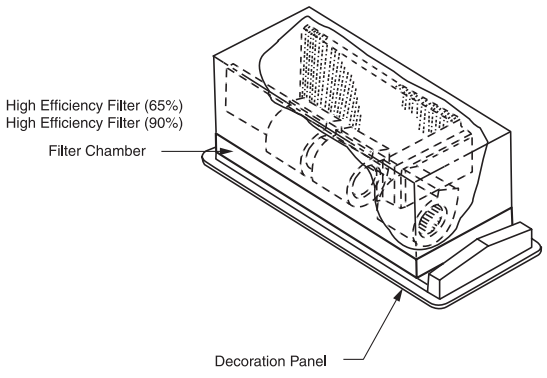
| Item \ Type | | | FXC20L FXC25L FXC32L | FXC40L | FXC50L | FXC63L | FXC80L | FXC125L |
|---|---|---|---|---|---|---|---|---|
| Decoration Panel | | | BYBC32G-W1 | BYBC50G-W1 | | BYBC63G-W1 | BYBC125G-W1 | |
| Filter related | ★1 High efficiency filter 65% | | KAFJ532G36 | KAFJ532G56 | | KAFJ532G80 | KAFJ532G160 | |
| | ★1 High efficiency filter 90% | | KAFJ533G36 | KAFJ533G56 | | KAFJ533G80 | KAFJ533G160 | |
| | Filter chamber | bottom suction | KDDFJ53G36 | KDDFJ53G56 | | KDDFJ53G80 | KDDFJ53G160 | |
| | Long life replacement filter | | KAFJ531G36 | KAFJ531G56 | | KAFJ531G80 | KAFJ531G160 | |

3D035093

**Note:**

★1. Filter chamber is required if installing high efficiency filter.

## Optional Accessories (For Controls) Refer to P.484




(V0676)

## Filter Chamber

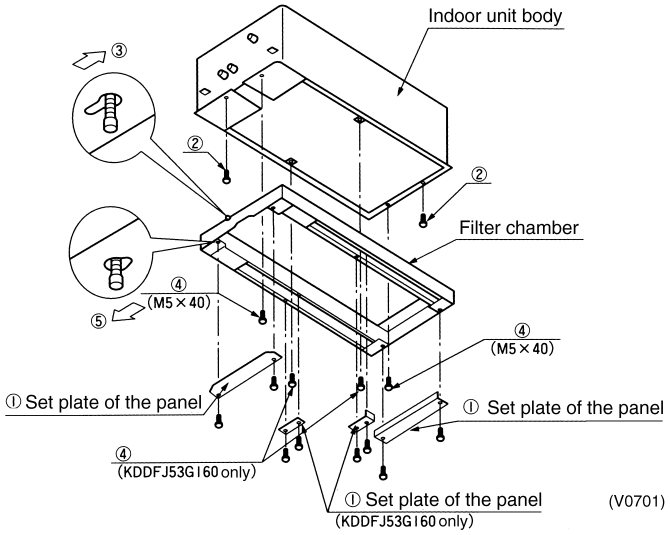
### Specifications

| Item \ Model | | KDDFJ53G36 | KDDFJ53G56 | KDDFJ53G80 | KDDFJ53G160 |
|---|---|---|---|---|---|
| External Dimensions (mm) | H | 50 | 50 | 50 | 50 |
| | W | 780 | 995 | 1180 | 1670 |
| | D | 600 | 600 | 600 | 600 |
| Applicable Models | | 20·25·32Class | 40·50Class | 63Class | 80·125Class |

### Precaution at use

1. The filter chamber will be needed when the high efficiency filter will be built in. But, it is impossible to build in more than two kinds filter at the same time.

### Installation




## High Efficiency Filter (Filter chamber is required for the high efficiency filter)

### Specifications

| Item \ Model | KAFJ532G36 | KAFJ532G56 | KAFJ532G80 | KAFJ532G160 | KAFJ533G36 | KAFJ533G56 | KAFJ533G80 | KAFJ533G160 |
|---|---|---|---|---|---|---|---|---|
| External Dimensions (H×W×D)(mm) | (30×460×145×)×2 | (30×675×145)×2 | (30×860×145)×2 | (30×660×145)×4 | (30×460×145)×2 | (30×675×145)×2 | (30×860×145)×2 | (30×660×145)×4 |
| Dust Collection Efficiency (%) | 65% (Colorimetric method) | | | | 90% (Colorimetric method) | | | |
| Initial Pressure Loss (Pa) | 29 | | | 39 | 39 | | | 49 |
| Final Pressure Loss (Pa) | 78 | | | | 78 | | | |
| Filter | Non-woven fabric of synthetic fiber | | | | Non-woven fabric of synthetic fiber | | | |
| Life Time (h)★ | 2500 hours | | | | 2500 hours | | 2100 hours | 1900 hours |
| Applicable Models | 20·25·32 Class | 40·50 Class | 63 Class | 80·125 Class | 20·25·32 Class | 40·50 Class | 63 Class | 80·125 Class |

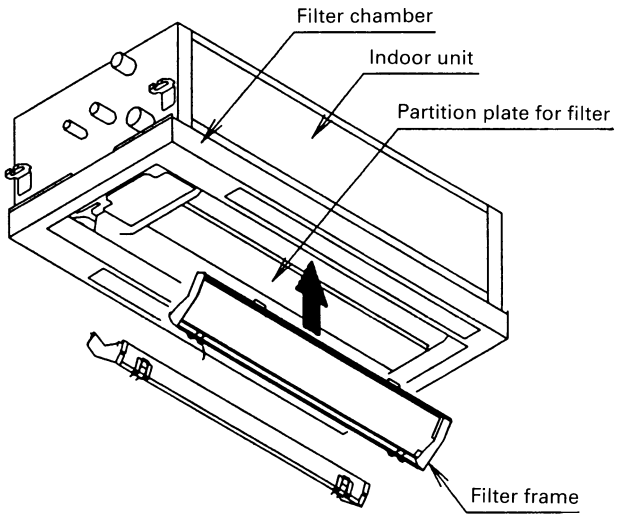
### Note:

1. ★ The life time at the dust density 0.15mg/m³
2. Replace the fan motor's capacitor in accordance with the guide in next page, when the high efficiency filter is used.

**Installation**

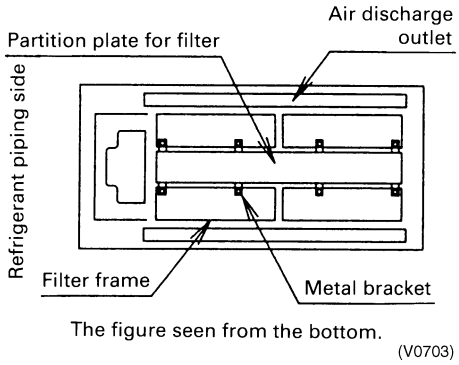
■ **Installation of the filter frame**

Attach the filter frame to the indoor unit, where the original filter was located. (Refer to the operation manual of the indoor unit how to remove the standard filter. The standard filter removed shall not be used.)

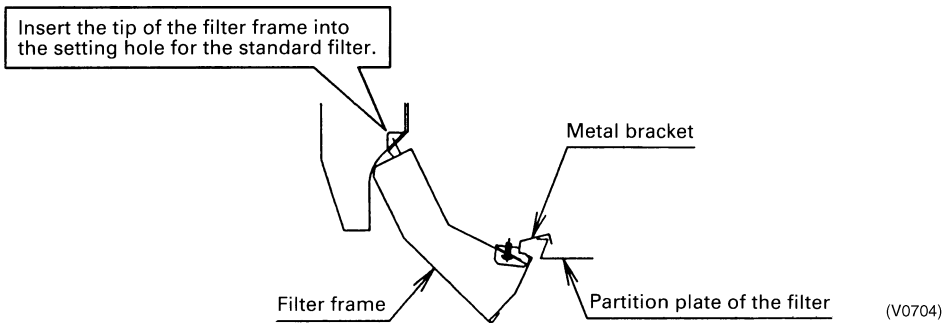



**In case of KAFJ532G160 and KAFJ533G160**

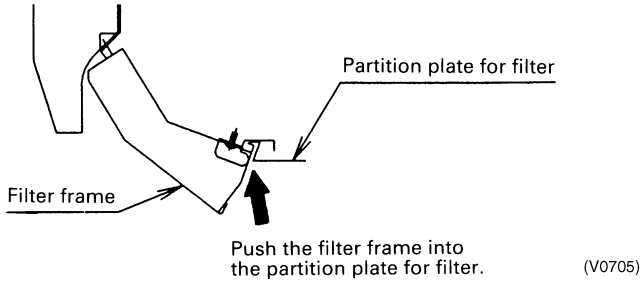
There are four filter frames of 2 kinds of each having different position of the metal bracket. Install the filter frames to the indoor unit as shown below.



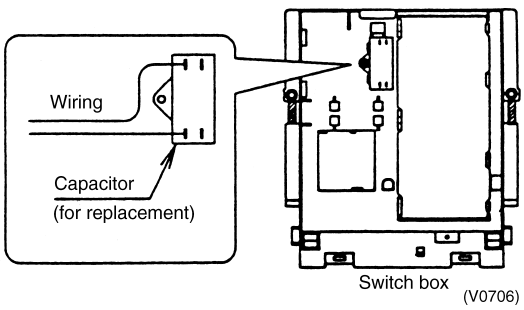

1. Loose the screw of the metal bracket located on each end of the filter frame and hook the filter frame temporarily to the partition plate located at the center of the indoor unit.




2. Fasten the screw of the metal bracket tightly.




**Replacement guide of capacitor for fan motor**




■ **Capacity of a capacitor to be replaced.**

| Model | Capacitor's Capacity | Applicable Models |
|---|---|---|
| KAFJ532·533G36 | 2μF | 20·25·32Class |
| KAFJ532·533G56 | 2μF | 40·50Class |
| KAFJ532·533G80 | 2μF | 63Class |
| KAFJ532·533G160 | 4.5μF | 80Class |
| | 6μF | 125Class |

# FXF-L
# Ceiling Mounted Cassette Type <Multi-Flow>

3

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# 1. Features

## External Appearance

SUPER CASSETTE

**FXF25L/FXF32L/FXF40L**
**FXF50L/FXF63L/FXF80L**
**FXF100L/FXF125L**

## New Super Cassette type is compact, quiet and easy to install.

- Regardless of their difference in capacity, all indoor units feature the same panel size and design, in consideration of harmonized interior

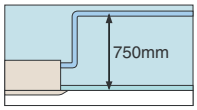
- The FXF25L-80L are thin models (246mm) which can be installed in narrow false ceilings of at least 265mm depth.
- Because of the light weight, suspension is easy.
- Low operating sound

(dB(A))

| Class | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
|---|---|---|---|---|---|---|---|---|
| Operating sound (H/L) | 30/27 | 30/27 | 31/27 | 32/27 | 33/28 | 36/31 | 39/33 | 42/36 |

Note: Operating sound may increase more than that when using with 3-way discharge or 2-way discharge, or when using together with a optional kit.

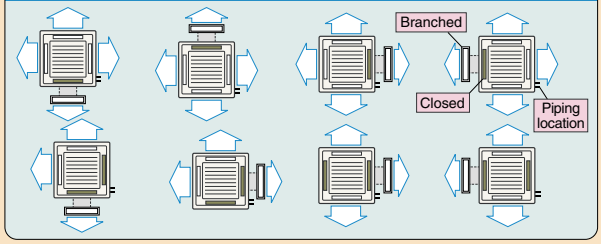
- Provided with high lift drain water lift-up mechanism. (Increased lift of drain pipe up to 750mm from the ceiling.)



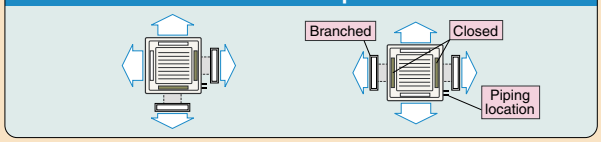

- Installing the fresh air intake is now easier using the new optional kit which requires no special chambers.
- A new long-life filter (maintenance-free period extended from one year to two) is equipped as standard accessory.

- 7 discharge patterns in 2 to 4 directions can be selected to suit the requirements of installation site or the shape of the room.
- The number of installation method using ducts has increased as shown below.

**Single branch—8 patterns**




**2 branches—2 patterns**



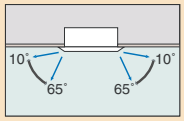

### *Can also be installed in high ceilings.*

| | | Number of discharge outlets used | | | | | |
|---|---|---|---|---|---|---|---|
| | | FXF25L-80L | | | FXF100L-125L | | |
| | | 4-way air discharge | 3-way air discharge | 2-way air discharge | 4-way air discharge | 3-way air discharge | 2-way air discharge |
| Ceiling height | Standard | 2.7m | 3.0m | 3.5m | 3.2m | 3.6m | 4.2m |
| | High ceiling ① | 3.0m | 3.3m | 3.8m | 3.6m | 4.0m | 4.2m |
| | High ceiling ② | 3.5m | 3.5m | — | 4.2m | 4.2m | — |

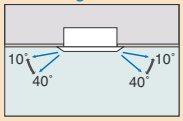
Note: Set standard 4-way discharge when shipped.
High ceiling types ① and ② will be set for remote control operation

### *There are 2 patterns in auto swing operation*

Pattern *1 Standard setting*




Pattern *2 Draft Prevention setting*




✻Has been set to standard setting at time of shipment.
This can be changed using the remote control

# 2. Specifications



## Ceiling Mounted Cassette Type (Multi-flow)

| Model | | | FXF25LVE | FXF32LVE | FXF40LVE | FXF50LVE |
|---|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 2,500 | 3,150 | 4,000 | 5,000 |
| | | Btu/h | 9,900 | 12,500 | 15,900 | 19,900 |
| | | kW | 2.9 | 3.7 | 4.7 | 5.8 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 2.8 | 3.6 | 4.5 | 5.6 |
| ★3 Heating Capacity | | kcal/h | 2,800 | 3,400 | 4,300 | 5,400 |
| | | Btu/h | 10,900 | 13,600 | 17,000 | 21,500 |
| | | kW | 3.2 | 4.0 | 5.0 | 6.3 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 246×840×840 | 246×840×840 | 246×840×840 | 246×840×840 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 2×8×1.2 | 2×8×1.2 | 2×8×1.2 | 2×8×1.2 |
| | Face Area | m² | 0.363 | 0.363 | 0.363 | 0.363 |
| Fan | Model | | QTS46D14M | QTS46D14M | QTS46D14M | QTS46D14M |
| | Type | | Turbo Fan | Turbo Fan | Turbo Fan | Turbo Fan |
| | Motor Output × Number of Units | W | 30×1 | 30×1 | 30×1 | 30×1 |
| | Air Flow Rate (H/L) | m³/min | 13/10 | 13/10 | 15/11 | 16/11 |
| | | cfm | 459/353 | 459/353 | 530/388 | 565/388 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Polyurethane Form | Polyurethane Form | Polyurethane Form | Polyurethane Form |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) |
| | Drain Pipe | mm | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) |
| Machine Weight | | kg | 24 | 24 | 24 | 24 |
| ★5 Sound Level (H/L) (220V)(cooling) | | dBA | 30/27 | 30/27 | 31/27 | 32/27 |
| Safety Devices | | | Fuse | Fuse | Fuse | Fuse |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series |
| Decoration Panels (Option) | Model | | BYCP125D-W1 | BYCP125D-W1 | BYCP125D-W1 | BYCP125D-W1 |
| | Panel Color | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) |
| | Dimensions: (H×W×D) | mm | 45×950×950 | 45×950×950 | 45×950×950 | 45×950×950 |
| | Air Filter | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| | Weight | kg | 5.5 | 5.5 | 5.5 | 5.5 |
| Standard Accessories | | | Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting. | Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting. | Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting. | Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting. |
| Drawing No. | | | 3D034210A | | | |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 107 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860 |
| Btu/h=kW×3414 |
| cfm=m³/min×35.3 |

## Ceiling Mounted Cassette Type (Multi-flow)

| Model | | | FXF63LVE | FXF80LVE | FXF100LVE | FXF125LVE |
|---|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 6,300 | 8,000 | 10,000 | 12,500 |
| | | Btu/h | 25,000 | 31,800 | 39,700 | 49,600 |
| | | kW | 7.3 | 9.3 | 11.6 | 14.5 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 7.1 | 9.0 | 11.2 | 14.0 |
| ★3 Heating Capacity | | kcal/h | 6,900 | 8,600 | 10,800 | 13,800 |
| | | Btu/h | 27,300 | 34,100 | 42,700 | 54,600 |
| | | kW | 8.0 | 10.0 | 12.5 | 16.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 246×840×840 | 246×840×840 | 288×840×840 | 288×840×840 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 2×10×1.2 | 2×10×1.2 | 2×12×1.2 | 2×12×1.2 |
| | Face Area | m² | 0.454 | 0.454 | 0.544 | 0.544 |
| Fan | Model | | QTS46D14M | QTS46D14M | QTS46C17M | QTS46C17M |
| | Type | | Turbo Fan | Turbo Fan | Turbo Fan | Turbo Fan |
| | Motor Output × Number of Units | W | 30×1 | 30×1 | 120×1 | 120×1 |
| | Air Flow Rate (H/L) | m³/min | 18.5/14 | 20/15 | 26/21 | 30/24 |
| | | cfm | 653/494 | 706/530 | 918/741 | 1,059/847 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Polyurethane Form | Polyurethane Form | Polyurethane Form | Polyurethane Form |
| Piping Connections | Liquid Pipes | mm | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ19.1 (Flare Connection) | ϕ19.1 (Flare Connection) |
| | Drain Pipe | mm | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) |
| Machine Weight | | kg | 25 | 25 | 29 | 29 |
| ★5 Sound Level (H/L)(cooling) | | dBA | 33/28 | 36/31 | 39/33 | 42/36 |
| Safety Devices | | | Fuse | Fuse | Fuse | Fuse |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series |
| Decoration Panels (Option) | Model | | BYCP125D-W1 | BYCP125D-W1 | BYCP125D-W1 | BYCP125D-W1 |
| | Panel Color | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) |
| | Dimensions: (H×W×D) | mm | 45×950×950 | 45×950×950 | 45×950×950 | 45×950×950 |
| | Air Filter | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| | Weight | kg | 5.5 | 5.5 | 5.5 | 5.5 |
| Standard Accessories | | | Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting. | Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting. | Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting. | Operation manual, Installation manual, Paper pattern for installation, Drain hose, Clamp metal, Washer fixing plate, Sealing pads, Clamps, Screws, Washer for hanging bracket, Insulation for fitting. |
| Drawing No. | | | 3D034210A | | | |

### Notes:

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 107 for Fan Motor Input.

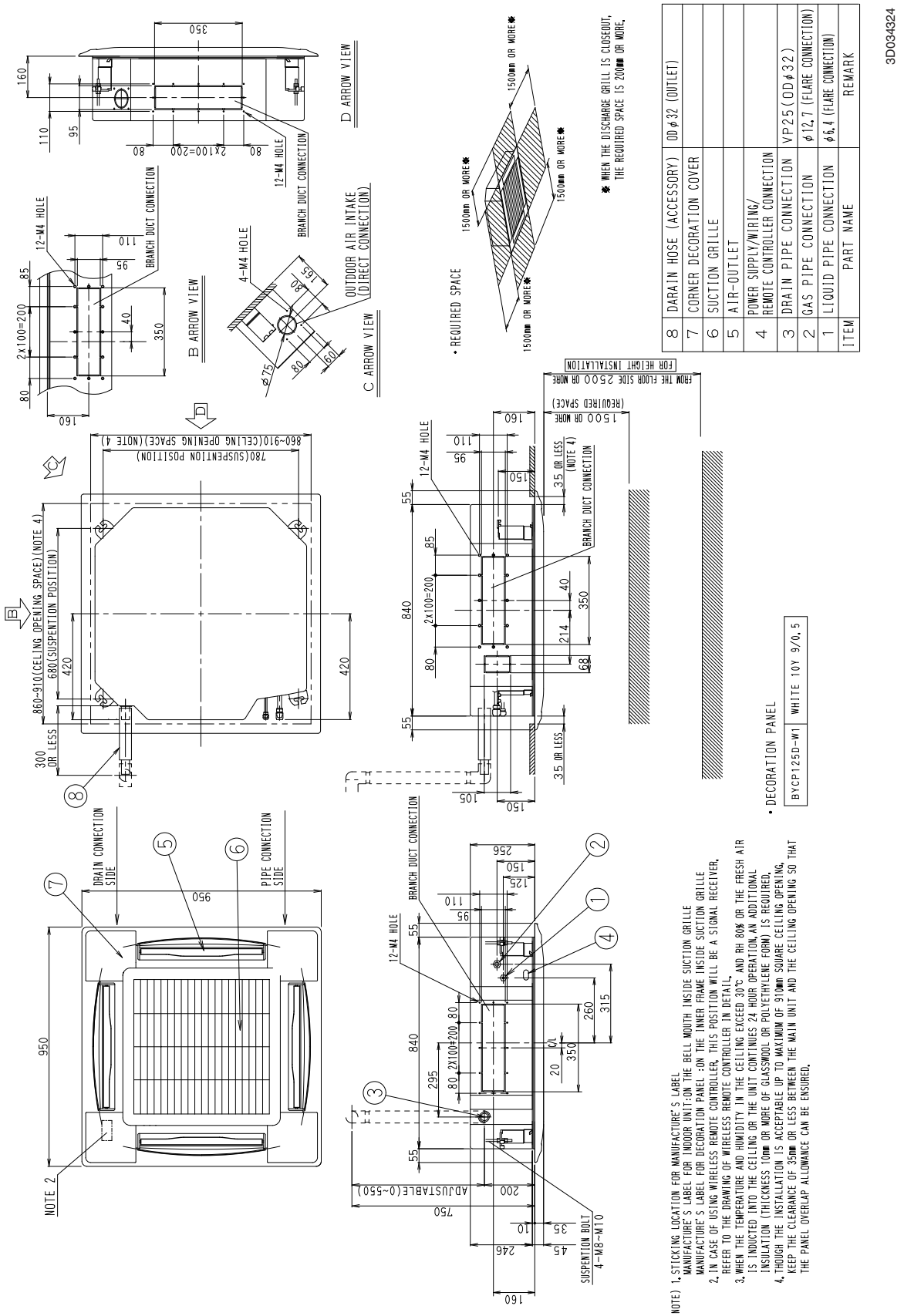
| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

# 3. Dimensions

**FXF25L + BYCP125D-W1(Decoration Panel)**
**FXF32L + BYCP125D-W1(Decoration Panel)**
**FXF40L + BYCP125D-W1(Decoration Panel)**



Unit (mm)




| ITEM | PART NAME | REMARK |
|---|---|---|
| 8 | DARAIN HOSE (ACCESSORY) | OD φ32 (OUTLET) |
| 7 | CORNER DECORATION COVER | |
| 6 | SUCTION GRILLE | |
| 5 | AIR-OUTLET | |
| 4 | POWER SUPPLY/WIRING/ REMOTE CONTROLLER CONNECTION | |
| 3 | DRAIN PIPE CONNECTION | VP25(OD φ32) |
| 2 | GAS PIPE CONNECTION | φ12.7 (FLARE CONNECTION) |
| 1 | LIQUID PIPE CONNECTION | φ6.4 (FLARE CONNECTION) |

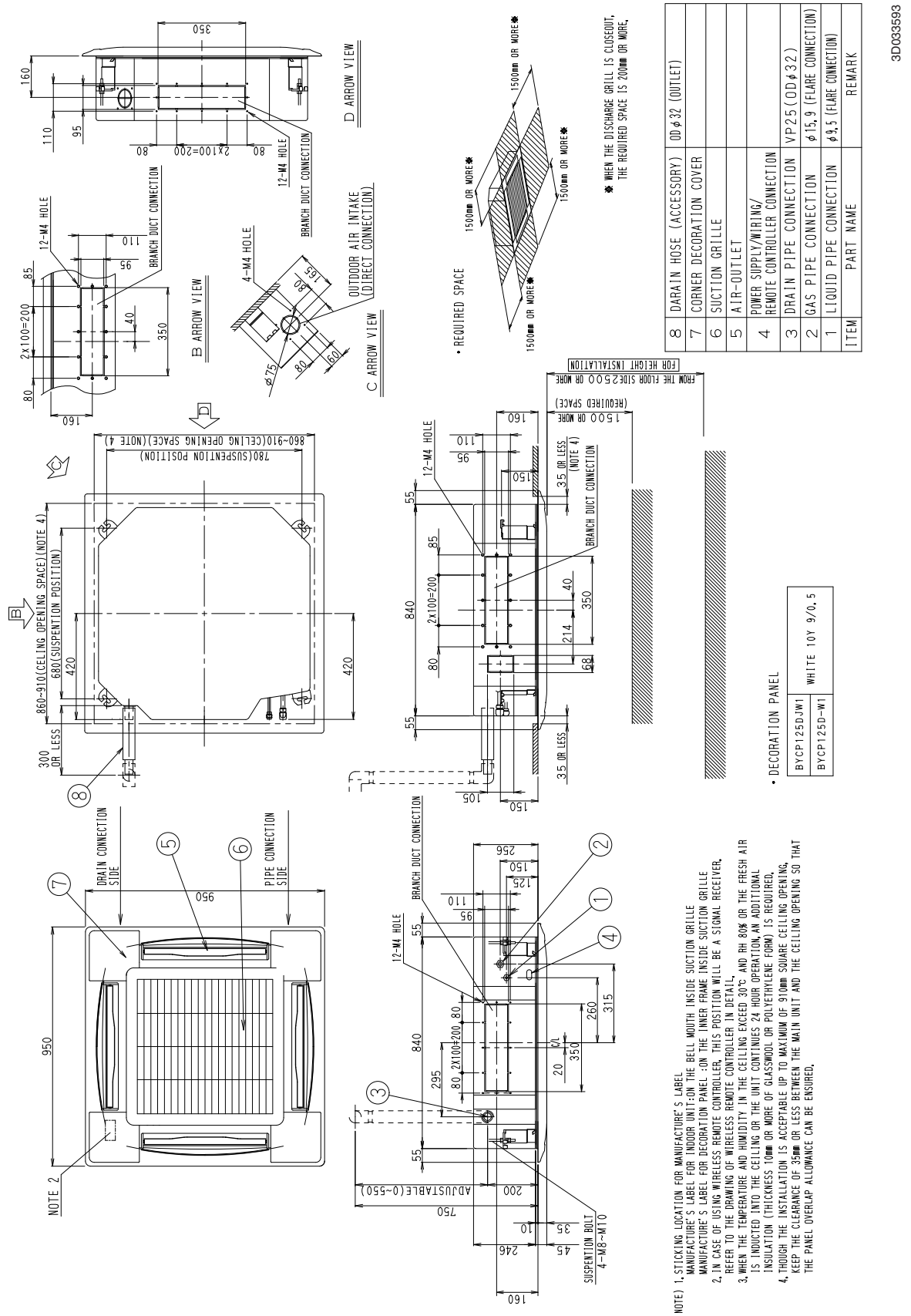
• DECORATION PANEL

| | |
|---|---|
| BYCP125D-W1 | WHITE 10Y 9/0.5 |

NOTE) 1. STICKING LOCATION FOR MANUFACTURE'S LABEL
MANUFACTURE'S LABEL FOR INDOOR UNIT:ON THE BELL MOUTH INSIDE SUCTION GRILLE
MANUFACTURE'S LABEL FOR DECORATION PANEL :ON THE INNER FRAME INSIDE SUCTION GRILLE
2. IN CASE OF USING WIRELESS REMOTE CONTROLLER, THIS POSITION WILL BE A SIGNAL RECEIVER, REFER TO THE DRAWING OF WIRELESS REMOTE CONTROLLER IN DETAIL.
3. WHEN THE TEMPERATURE AND HUMIDITY IN THE CEILING EXCEED 30°C AND RH 80% OR THE FRESH AIR IS INDUCTED INTO THE CEILING OR THE UNIT CONTINUES 24 HOUR OPERATION, AN ADDITIONAL INSULATION (THICKNESS 10mm OR MORE OF GLASSWOOL OR POLYETHYLENE FORM) IS REQUIRED.
4. THOUGH THE INSTALLATION IS ACCEPTABLE UP TO MAXIMUM OF 910mm SQUARE CEILING OPENING, KEEP THE CLEARANCE OF 35mm OR LESS BETWEEN THE MAIN UNIT AND THE CEILING OPENING SO THAT THE PANEL OVERLAP ALLOWANCE CAN BE ENSURED.

**FXF50L + BYCP125D-W1 (Decoration Panel)**
**FXF63L + BYCP125D-W1 (Decoration Panel)**
**FXF80L + BYCP125D-W1 (Decoration Panel)**

Unit (mm)

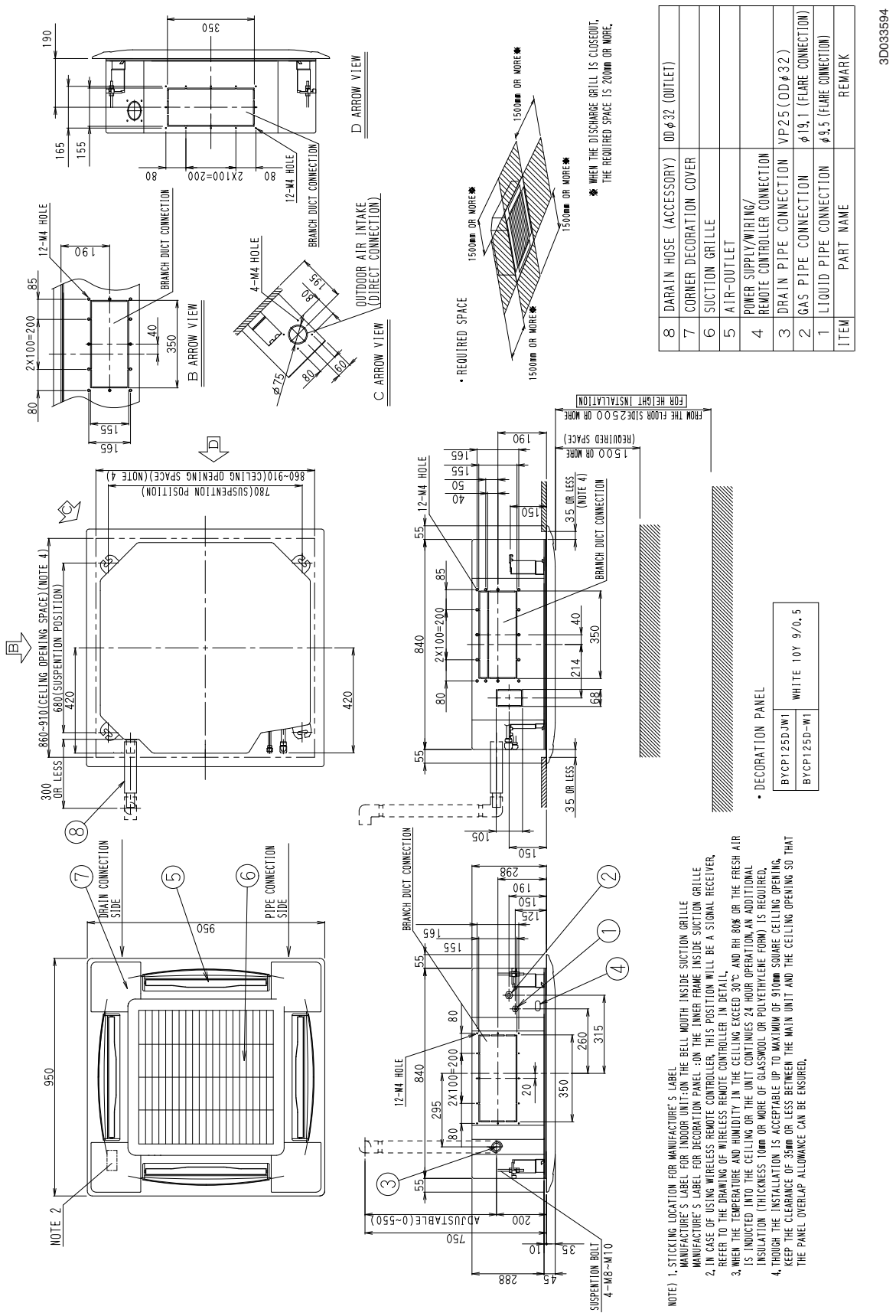



| ITEM | PART NAME | REMARK |
|---|---|---|
| 1 | LIQUID PIPE CONNECTION | ϕ9,5 (FLARE CONNECTION) |
| 2 | GAS PIPE CONNECTION | ϕ15,9 (FLARE CONNECTION) |
| 3 | DRAIN PIPE CONNECTION | VP25(ODϕ32) |
| 4 | POWER SUPPLY/WIRING/ REMOTE CONTROLLER CONNECTION | |
| 5 | AIR-OUTLET | |
| 6 | SUCTION GRILLE | |
| 7 | CORNER DECORATION COVER | |
| 8 | DARAIN HOSE (ACCESSORY) | ODϕ32 (OUTLET) |

NOTE) 1. STICKING LOCATION FOR MANUFACTURE'S LABEL
MANUFACTURE'S LABEL FOR INDOOR UNIT:ON THE BELL MOUTH INSIDE SUCTION GRILLE
MANUFACTURE'S LABEL FOR DECORATION PANEL :ON THE INNER FRAME INSIDE SUCTION GRILLE
2. IN CASE OF USING WIRELESS REMOTE CONTROLLER, THIS POSITION WILL BE A SIGNAL RECEIVER, REFER TO THE DRAWING OF WIRELESS REMOTE CONTROLLER IN DETAIL.
3. WHEN THE TEMPERATURE AND HUMIDITY IN THE CEILING EXCEED 30°C AND RH 80% OR THE FRESH AIR IS INDUCTED INTO THE CEILING OR THE UNIT CONTINUES 24 HOUR OPERATION,AN ADDITIONAL INSULATION (THICKNESS 10mm OR MORE OF GLASSWOOL OR POLYETHYLENE FORM) IS REQUIRED.
4. THOUGH THE INSTALLATION IS ACCEPTABLE UP TO MAXIMUM OF 910mm SQUARE CEILING OPENING, KEEP THE CLEARANCE OF 35mm OR LESS BETWEEN THE MAIN UNIT AND THE CEILING OPENING SO THAT THE PANEL OVERLAP ALLOWANCE CAN BE ENSURED.

## FXF100L + BYCP125D-W1 (Decoration Panel)
## FXF125L + BYCP125D-W1 (Decoration Panel)

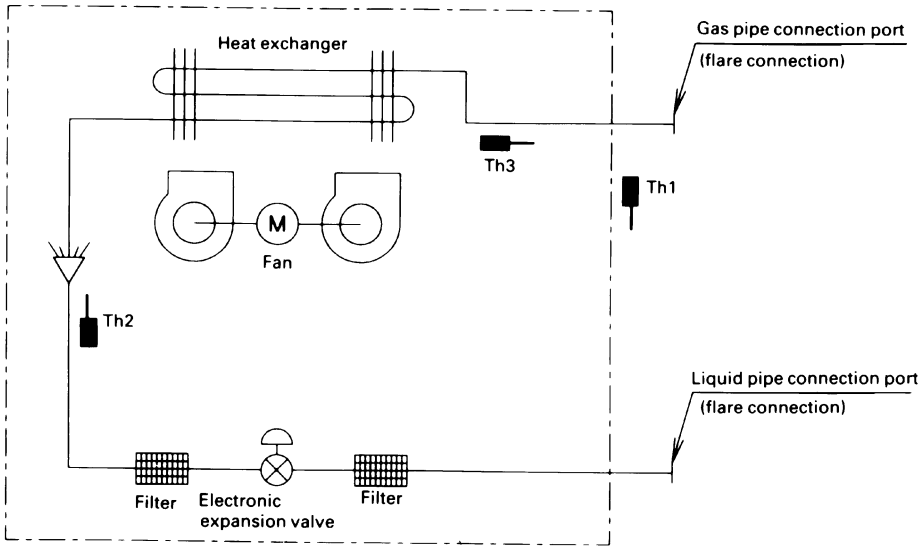
Unit (mm)




| ITEM | PART NAME | REMARK |
|---|---|---|
| 8 | DARAIN HOSE (ACCESSORY) | OD φ32 (OUTLET) |
| 7 | CORNER DECORATION COVER | |
| 6 | SUCTION GRILLE | |
| 5 | AIR-OUTLET | |
| 4 | POWER SUPPLY/WIRING/ REMOTE CONTROLLER CONNECTION | |
| 3 | DRAIN PIPE CONNECTION | VP25(OD φ32) |
| 2 | GAS PIPE CONNECTION | φ19,1 (FLARE CONNECTION) |
| 1 | LIQUID PIPE CONNECTION | φ9,5 (FLARE CONNECTION) |

NOTE) 1. STICKING LOCATION FOR MANUFACTURE'S LABEL
MANUFACTURE'S LABEL FOR INDOOR UNIT:ON THE BELL MOUTH INSIDE SUCTION GRILLE
MANUFACTURE'S LABEL FOR DECORATION PANEL :ON THE INNER FRAME INSIDE SUCTION GRILLE
2. IN CASE OF USING WIRELESS REMOTE CONTROLLER, THIS POSITION WILL BE A SIGNAL RECEIVER, REFER TO THE DRAWING OF WIRELESS REMOTE CONTROLLER IN DETAIL.
3. WHEN THE TEMPERATURE AND HUMIDITY IN THE CEILING EXCEED 30°C AND RH 80% OR THE FRESH AIR IS INDUCTED INTO THE CEILING OR THE UNIT CONTINUES 24 HOUR OPERATION, AN ADDITIONAL INSULATION (THICKNESS 10mm OR MORE OF GLASSWOOL OR POLYETHYLENE FORM) IS REQUIRED.
4. THOUGH THE INSTALLATION IS ACCEPTABLE UP TO MAXIMUM OF 910mm SQUARE CEILING OPENING, KEEP THE CLEARANCE OF 35mm OR LESS BETWEEN THE MAIN UNIT AND THE CEILING OPENING SO THAT THE PANEL OVERLAP ALLOWANCE CAN BE ENSURED.

# 4. Piping Diagrams




Th1: Thermister for suction air temp.
Th2: Thermister for liquid line temp.
Th3: Thermister for gas line temp.

4D024460

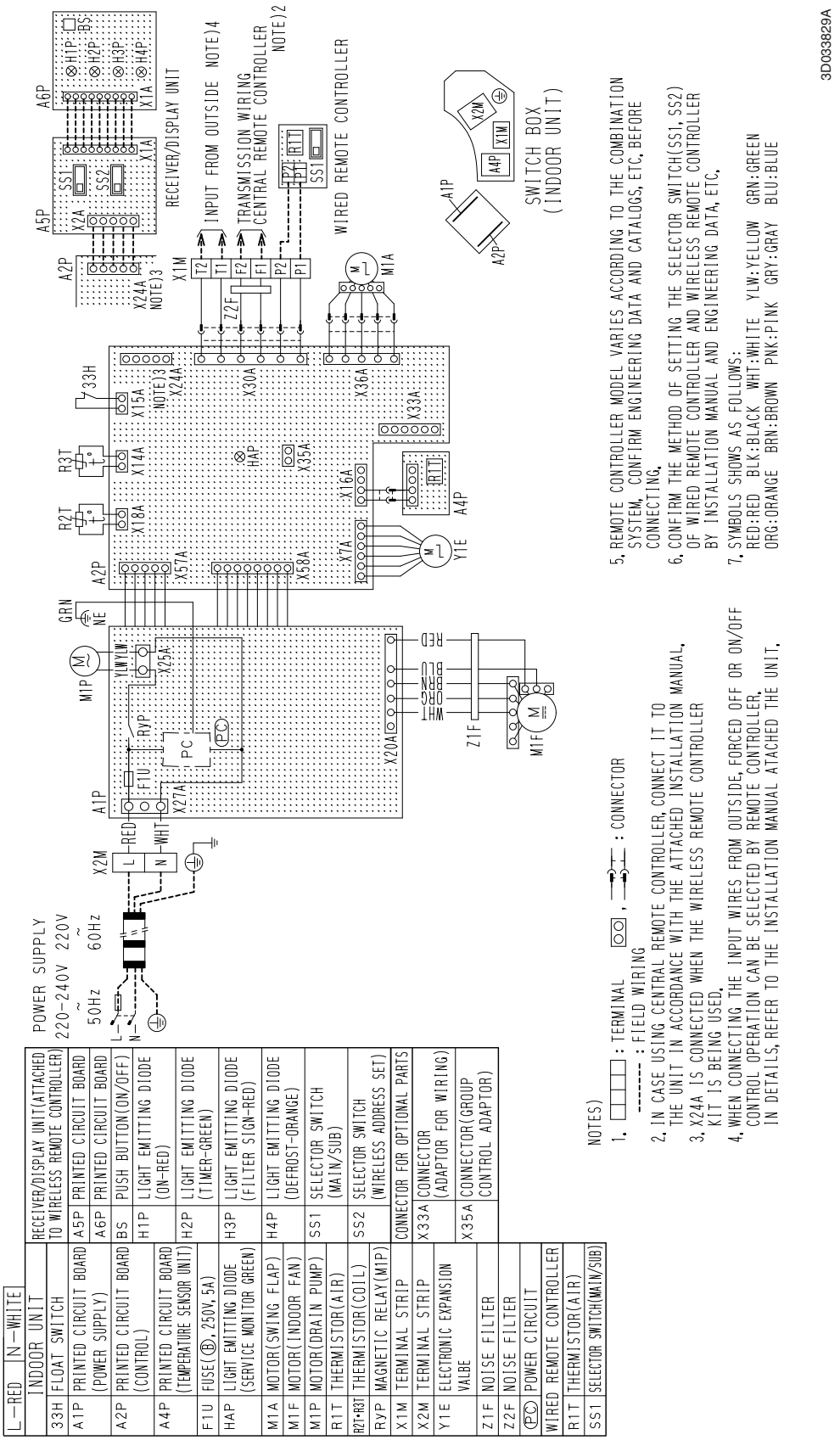
■ **Refrigerant pipe connection port diameters**

(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXF25L / 32L / 40L | ϕ12.7 | ϕ6.4 |
| FXF50L / 63L / 80L | ϕ15.9 | ϕ9.5 |
| FXF100L / 125L | ϕ19.1 | |

# 5. Wiring Diagrams

**FXF25L / 32L / 40L / 50L / 63L / 80L / 100L / 125LVE**



# 6. Capacity Tables

## 6.1 50Hz

### 6.1.1 Cooling Capacity

**FXF-L**

**[50Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 25 | 10.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.4 |
| | 12.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.6 | 2.3 |
| | 14.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.6 | 2.3 |
| | 16.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.5 | 2.3 |
| | 18.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.5 | 2.3 |
| | 20.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.4 | 2.2 |
| | 21.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.4 | 2.2 |
| | 23.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.3 | 3.4 | 2.2 |
| | 25.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.2 | 2.3 | 3.3 | 2.1 |
| | 27.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.2 | 2.3 | 3.3 | 2.1 |
| | 29.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.1 | 2.2 | 3.2 | 2.1 |
| | 31.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.1 | 2.2 | 3.2 | 2.1 |
| | 33.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.1 | 2.2 | 3.1 | 2.1 |
| | 35.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 2.9 | 2.3 | 3.0 | 2.2 | 3.1 | 2.1 |
| | 37.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 2.9 | 2.3 | 3.0 | 2.2 | 3.0 | 2.1 |
| | 39.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 2.9 | 2.3 | 2.9 | 2.2 | 3.0 | 2.1 |
| 32 | 10.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 12.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.6 | 2.9 |
| | 14.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.6 | 2.9 |
| | 16.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.5 | 2.8 |
| | 18.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.5 | 2.8 |
| | 20.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.4 | 2.8 |
| | 21.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.4 | 2.7 |
| | 23.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.2 | 2.9 | 4.3 | 2.7 |
| | 25.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.2 | 2.8 | 4.3 | 2.7 |
| | 27.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.1 | 2.8 | 4.2 | 2.6 |
| | 29.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.0 | 2.8 | 4.1 | 2.6 |
| | 31.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.0 | 2.7 | 4.1 | 2.6 |
| | 33.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 3.9 | 2.7 | 4.0 | 2.6 |
| | 35.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.8 | 3.9 | 2.7 | 4.0 | 2.6 |
| | 37.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.7 | 2.8 | 3.8 | 2.7 | 3.9 | 2.6 |
| | 39.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.7 | 2.8 | 3.8 | 2.7 | 3.8 | 2.6 |
| 40 | 10.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.4 |
| | 12.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.8 | 3.4 |
| | 14.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 16.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 18.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 20.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.5 | 3.2 |
| | 21.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.5 | 3.2 |
| | 23.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.4 | 3.2 |
| | 25.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.2 | 3.3 | 5.3 | 3.1 |
| | 27.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.1 | 3.3 | 5.2 | 3.1 |
| | 29.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.1 | 3.2 | 5.2 | 3.1 |
| | 31.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.0 | 3.2 | 5.1 | 3.1 |
| | 33.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 4.9 | 3.2 | 5.0 | 3.1 |
| | 35.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.7 | 3.3 | 4.8 | 3.2 | 4.9 | 3.0 |
| | 37.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.7 | 3.3 | 4.8 | 3.2 | 4.9 | 3.0 |
| | 39.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.6 | 3.3 | 4.7 | 3.1 | 4.8 | 3.0 |

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 12.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.2 | 4.2 |
| | 14.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.1 | 4.1 |
| | 16.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.0 | 4.1 |
| | 18.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 6.9 | 4.0 |
| | 20.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 6.8 | 4.0 |
| | 21.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 6.8 | 3.9 |
| | 23.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.1 | 6.7 | 3.9 |
| | 25.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.5 | 4.1 | 6.6 | 3.8 |
| | 27.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.4 | 4.0 | 6.5 | 3.8 |
| | 29.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.3 | 4.0 | 6.4 | 3.8 |
| | 31.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.2 | 3.9 | 6.3 | 3.8 |
| | 33.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.1 | 3.9 | 6.2 | 3.7 |
| | 35.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.0 | 6.0 | 3.9 | 6.2 | 3.7 |
| | 37.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.8 | 4.0 | 5.9 | 3.8 | 6.1 | 3.6 |
| | 39.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.7 | 4.0 | 5.8 | 3.8 | 6.0 | 3.6 |
| 63 | 10.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 12.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.1 | 5.4 |
| | 14.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.0 | 5.4 |
| | 16.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 8.9 | 5.3 |
| | 18.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 8.8 | 5.2 |
| | 20.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 8.7 | 5.2 |
| | 21.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 8.6 | 5.1 |
| | 23.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.3 | 5.4 | 8.5 | 5.1 |
| | 25.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.2 | 5.3 | 8.4 | 5.0 |
| | 27.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.1 | 5.2 | 8.3 | 5.0 |
| | 29.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.0 | 5.2 | 8.2 | 4.9 |
| | 31.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 7.9 | 5.1 | 8.0 | 4.9 |
| | 33.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 7.8 | 5.1 | 7.9 | 4.9 |
| | 35.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 7.6 | 5.0 | 7.8 | 4.8 |
| | 37.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.4 | 5.2 | 7.5 | 5.0 | 7.7 | 4.8 |
| | 39.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.3 | 7.2 | 5.2 | 7.4 | 4.9 | 7.6 | 4.7 |
| 80 | 10.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.7 | 7.3 |
| | 12.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.6 | 7.2 |
| | 14.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.4 | 7.2 |
| | 16.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.3 | 7.1 |
| | 18.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.1 | 7.0 |
| | 20.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.0 | 6.9 |
| | 21.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 10.9 | 6.8 |
| | 23.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.6 | 7.2 | 10.8 | 6.7 |
| | 25.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.4 | 7.1 | 10.6 | 6.7 |
| | 27.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.3 | 7.0 | 10.5 | 6.6 |
| | 29.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.1 | 6.9 | 10.3 | 6.6 |
| | 31.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.0 | 6.9 | 10.2 | 6.5 |
| | 33.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 9.8 | 6.8 | 10.0 | 6.5 |
| | 35.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.5 | 7.1 | 9.7 | 6.8 | 9.9 | 6.5 |
| | 37.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.3 | 7.0 | 9.5 | 6.7 | 9.7 | 6.4 |
| | 39.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.1 | 9.2 | 7.0 | 9.4 | 6.6 | 9.6 | 6.4 |

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 100 | 10.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.6 | 8.5 |
| | 12.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.4 | 8.4 |
| | 14.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.2 | 8.3 |
| | 16.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.1 | 8.2 |
| | 18.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 13.9 | 8.1 |
| | 20.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 13.7 | 8.0 |
| | 21.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 13.6 | 7.9 |
| | 23.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.2 | 8.3 | 13.4 | 7.8 |
| | 25.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.0 | 8.1 | 13.2 | 7.7 |
| | 27.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 12.8 | 8.0 | 13.0 | 7.6 |
| | 29.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 12.6 | 7.9 | 12.9 | 7.6 |
| | 31.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 12.4 | 7.8 | 12.7 | 7.5 |
| | 33.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 12.2 | 7.8 | 12.5 | 7.4 |
| | 35.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.8 | 8.0 | 12.0 | 7.7 | 12.3 | 7.3 |
| | 37.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.6 | 7.9 | 11.9 | 7.6 | 12.1 | 7.2 |
| | 39.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.4 | 7.8 | 11.7 | 7.5 | 11.9 | 7.2 |
| 125 | 10.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 18.3 | 10.6 |
| | 12.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 18.0 | 10.4 |
| | 14.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 17.8 | 10.3 |
| | 16.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 17.6 | 10.2 |
| | 18.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 17.3 | 10.0 |
| | 20.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 17.1 | 9.9 |
| | 21.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 17.0 | 9.8 |
| | 23.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.4 | 10.3 | 16.8 | 9.7 |
| | 25.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.2 | 10.1 | 16.5 | 9.6 |
| | 27.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.0 | 10.0 | 16.3 | 9.5 |
| | 29.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 15.7 | 9.9 | 16.1 | 9.4 |
| | 31.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 15.5 | 9.7 | 15.8 | 9.3 |
| | 33.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 15.3 | 9.7 | 15.6 | 9.2 |
| | 35.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.7 | 10.0 | 15.1 | 9.6 | 15.4 | 9.1 |
| | 37.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.5 | 9.9 | 14.8 | 9.5 | 15.1 | 9.0 |
| | 39.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.9 | 14.3 | 9.8 | 14.6 | 9.4 | 14.9 | 9.0 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.1.2 Heating Capacity

### FXF-L

**[50Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp. : °CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 25 | -14.7 | -15.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -12.6 | -13.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -10.5 | -11.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | -9.5 | -10.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -8.5 | -9.1 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -7.0 | -7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -5.0 | -5.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -3.0 | -3.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | 0.0 | -0.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 3.0 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -12.6 | -13.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -10.5 | -11.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | -9.5 | -10.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -8.5 | -9.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -7.0 | -7.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -5.0 | -5.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -3.0 | -3.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | 0.0 | -0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 3.0 | 2.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.4 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -12.6 | -13.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -10.5 | -11.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -9.5 | -10.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -8.5 | -9.1 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| | -7.0 | -7.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -5.0 | -5.6 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -3.0 | -3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | 0.0 | -0.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 3.0 | 2.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.5 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.7 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## [50Hz]

**Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp. : °CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -12.6 | -13.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | -10.5 | -11.0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| | -9.5 | -10.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| | -8.5 | -9.1 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | -7.0 | -7.6 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -5.0 | -5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -3.0 | -3.7 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | 0.0 | -0.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 3.0 | 2.2 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.1 | 6.1 | 6.1 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 6.9 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.1 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 80 | -14.7 | -15.0 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| | -12.6 | -13.0 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | -10.5 | -11.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| | -9.5 | -10.0 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| | -8.5 | -9.1 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| | -7.0 | -7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| | -5.0 | -5.6 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| | -3.0 | -3.7 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| | 0.0 | -0.7 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.4 |
| | 3.0 | 2.2 | 9.3 | 9.3 | 9.3 | 9.3 | 9.2 | 8.4 |
| | 5.0 | 4.1 | 9.6 | 9.6 | 9.6 | 9.6 | 9.2 | 8.4 |
| | 7.0 | 6.0 | 10.0 | 10.0 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 9.0 | 7.9 | 10.3 | 10.3 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 11.0 | 9.8 | 10.6 | 10.6 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 13.0 | 11.8 | 11.0 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 15.0 | 13.7 | 11.3 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |

## [50Hz]

**Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp. : °CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 100 | -14.7 | -15.0 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| | -12.6 | -13.0 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| | -10.5 | -11.0 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| | -9.5 | -10.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| | -8.5 | -9.1 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 |
| | -7.0 | -7.6 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| | -5.0 | -5.6 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| | -3.0 | -3.7 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| | 0.0 | -0.7 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 10.5 |
| | 3.0 | 2.2 | 11.7 | 11.7 | 11.7 | 11.7 | 11.5 | 10.5 |
| | 5.0 | 4.1 | 12.1 | 12.1 | 12.1 | 12.0 | 11.5 | 10.5 |
| | 7.0 | 6.0 | 12.5 | 12.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 9.0 | 7.9 | 12.9 | 12.9 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 11.0 | 9.8 | 13.3 | 13.3 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 13.0 | 11.8 | 13.8 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 15.0 | 13.7 | 14.2 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| 125 | -14.7 | -15.0 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| | -12.6 | -13.0 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| | -10.5 | -11.0 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| | -9.5 | -10.0 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| | -8.5 | -9.1 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | -7.0 | -7.6 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| | -5.0 | -5.6 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| | -3.0 | -3.7 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |
| | 0.0 | -0.7 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 13.5 |
| | 3.0 | 2.2 | 14.9 | 14.9 | 14.9 | 14.9 | 14.7 | 13.5 |
| | 5.0 | 4.1 | 15.4 | 15.4 | 15.4 | 15.3 | 14.7 | 13.5 |
| | 7.0 | 6.0 | 16.0 | 16.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 9.0 | 7.9 | 16.5 | 16.5 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 11.0 | 9.8 | 17.0 | 17.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 13.0 | 11.8 | 17.5 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 15.0 | 13.7 | 18.1 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

# 6.2 60Hz

## 6.2.1 Cooling Capacity

**FXF-L**

**[60Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 25 | 10.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.4 |
| | 12.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.4 |
| | 14.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.4 |
| | 16.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.4 |
| | 18.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.4 |
| | 20.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.4 |
| | 21.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.4 |
| | 23.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.6 | 2.4 |
| | 25.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.6 | 2.3 |
| | 27.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.5 | 2.3 |
| | 29.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.5 | 2.3 |
| | 31.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.4 | 2.3 |
| | 33.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.4 | 2.3 |
| | 35.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.3 | 2.3 |
| | 37.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.2 | 2.4 | 3.3 | 2.3 |
| | 39.0 | 1.9 | 2.0 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.4 | 3.2 | 2.3 | 3.2 | 2.2 |
| 32 | 10.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 3.0 |
| | 12.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 3.0 |
| | 14.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 3.0 |
| | 16.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 3.0 |
| | 18.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 3.0 |
| | 20.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 3.0 |
| | 21.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 3.0 |
| | 23.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 25.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.6 | 2.9 |
| | 27.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.5 | 2.9 |
| | 29.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.5 | 2.9 |
| | 31.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 2.9 | 4.4 | 2.8 |
| | 33.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.3 | 2.9 |
| | 35.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.2 | 2.9 | 4.3 | 2.8 |
| | 37.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.1 | 2.9 | 4.2 | 2.8 |
| | 39.0 | 2.5 | 2.4 | 2.9 | 2.7 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 3.0 | 4.1 | 2.9 | 4.2 | 2.8 |
| 40 | 10.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 12.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 14.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 16.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 18.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 20.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 21.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 23.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.8 | 3.4 |
| | 25.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 27.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 29.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.6 | 3.4 |
| | 31.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.4 | 5.5 | 3.3 |
| | 33.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.3 | 3.5 | 5.4 | 3.3 |
| | 35.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.2 | 3.4 | 5.4 | 3.3 |
| | 37.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.2 | 3.4 | 5.3 | 3.3 |
| | 39.0 | 3.1 | 2.8 | 3.7 | 3.0 | 4.2 | 3.3 | 4.5 | 3.3 | 4.8 | 3.4 | 5.1 | 3.4 | 5.2 | 3.2 |

## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 12.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 14.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 16.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 18.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 20.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 21.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 23.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 25.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.2 | 4.2 |
| | 27.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.1 | 4.1 |
| | 29.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 7.0 | 4.1 |
| | 31.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 6.9 | 4.1 |
| | 33.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.6 | 4.2 | 6.8 | 4.0 |
| | 35.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.5 | 4.2 | 6.7 | 4.0 |
| | 37.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.4 | 4.1 | 6.6 | 3.9 |
| | 39.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 3.9 | 5.6 | 4.0 | 5.9 | 4.1 | 6.3 | 4.1 | 6.5 | 3.9 |
| 63 | 10.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 12.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 14.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 16.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 18.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 20.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 21.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 23.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.2 | 5.5 |
| | 25.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 9.1 | 5.5 |
| | 27.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 8.9 | 5.4 |
| | 29.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.4 | 8.8 | 5.3 |
| | 31.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 8.7 | 5.3 |
| | 33.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 8.6 | 5.3 |
| | 35.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.3 | 5.4 | 8.4 | 5.2 |
| | 37.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.1 | 5.4 | 8.3 | 5.2 |
| | 39.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.3 | 7.5 | 5.4 | 8.0 | 5.3 | 8.2 | 5.1 |
| 80 | 10.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.8 | 7.4 |
| | 12.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.8 | 7.4 |
| | 14.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.8 | 7.4 |
| | 16.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.8 | 7.4 |
| | 18.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.8 | 7.4 |
| | 20.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.8 | 7.4 |
| | 21.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.8 | 7.4 |
| | 23.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.7 | 7.3 |
| | 25.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.5 | 7.2 |
| | 27.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.3 | 7.2 |
| | 29.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.2 | 11.2 | 7.1 |
| | 31.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.0 | 7.1 |
| | 33.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.6 | 7.4 | 10.9 | 7.0 |
| | 35.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.1 | 10.5 | 7.3 | 10.7 | 7.0 |
| | 37.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.0 | 9.6 | 7.2 | 10.3 | 7.3 | 10.5 | 6.9 |
| | 39.0 | 6.2 | 5.5 | 7.3 | 6.2 | 8.4 | 6.7 | 9.0 | 7.1 | 9.6 | 7.2 | 10.2 | 7.2 | 10.4 | 6.9 |

## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 100 | 10.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.7 | 8.5 |
| | 12.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.7 | 8.5 |
| | 14.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.7 | 8.5 |
| | 16.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.7 | 8.5 |
| | 18.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.7 | 8.5 |
| | 20.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.7 | 8.5 |
| | 21.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.7 | 8.5 |
| | 23.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.5 | 8.4 |
| | 25.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.3 | 8.4 |
| | 27.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.3 | 14.1 | 8.3 |
| | 29.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.4 | 13.9 | 8.2 |
| | 31.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.3 | 8.4 | 13.7 | 8.1 |
| | 33.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.2 | 8.4 | 13.5 | 8.0 |
| | 35.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 13.0 | 8.3 | 13.3 | 7.9 |
| | 37.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.1 | 12.8 | 8.2 | 13.1 | 7.8 |
| | 39.0 | 7.7 | 6.4 | 9.1 | 7.1 | 10.5 | 7.7 | 11.2 | 7.9 | 11.9 | 8.2 | 12.6 | 8.1 | 12.9 | 7.8 |
| 125 | 10.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 18.3 | 10.6 |
| | 12.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 18.3 | 10.6 |
| | 14.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 18.3 | 10.6 |
| | 16.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 18.3 | 10.6 |
| | 18.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 18.3 | 10.6 |
| | 20.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 18.3 | 10.6 |
| | 21.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 18.3 | 10.6 |
| | 23.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 18.1 | 10.5 |
| | 25.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 17.9 | 10.4 |
| | 27.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 17.6 | 10.3 |
| | 29.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 17.4 | 10.2 |
| | 31.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.6 | 10.4 | 17.1 | 10.1 |
| | 33.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.0 | 16.5 | 10.5 | 16.9 | 9.9 |
| | 35.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.1 | 16.3 | 10.4 | 16.6 | 9.9 |
| | 37.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.8 | 14.9 | 10.1 | 16.0 | 10.3 | 16.4 | 9.8 |
| | 39.0 | 9.7 | 7.9 | 11.4 | 8.8 | 13.1 | 9.6 | 14.0 | 9.9 | 14.9 | 10.2 | 15.8 | 10.2 | 16.1 | 9.7 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2.2 Heating Capacity

### FXF-L

**[60Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp. : °CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 25 | -14.7 | -15.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -12.6 | -13.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -10.5 | -11.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -9.5 | -10.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -8.5 | -9.1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -7.0 | -7.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -5.0 | -5.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -3.0 | -3.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 0.0 | -0.7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 3.0 | 2.2 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -12.6 | -13.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -10.5 | -11.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -9.5 | -10.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -8.5 | -9.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -7.0 | -7.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | -5.0 | -5.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| | -3.0 | -3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 0.0 | -0.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 3.0 | 2.2 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.5 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -12.6 | -13.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -10.5 | -11.0 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| | -9.5 | -10.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -8.5 | -9.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -7.0 | -7.6 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| | -5.0 | -5.6 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| | -3.0 | -3.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 0.0 | -0.7 | 4.8 | 4.8 | 4.8 | 4.8 | 4.6 | 4.2 |
| | 3.0 | 2.2 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.6 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## [60Hz]

**Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp. : °CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | -12.6 | -13.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | -10.5 | -11.0 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -9.5 | -10.0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| | -8.5 | -9.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -7.0 | -7.6 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | -5.0 | -5.6 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.3 |
| | -3.0 | -3.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 0.0 | -0.7 | 6.0 | 6.0 | 6.0 | 6.0 | 5.8 | 5.3 |
| | 3.0 | 2.2 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 7.0 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 7.2 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | -12.6 | -13.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -10.5 | -11.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | -9.5 | -10.0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -8.5 | -9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -7.0 | -7.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| | -5.0 | -5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | -3.0 | -3.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.8 |
| | 0.0 | -0.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.4 | 6.8 |
| | 3.0 | 2.2 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.9 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 9.2 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 80 | -14.7 | -15.0 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| | -12.6 | -13.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| | -10.5 | -11.0 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| | -9.5 | -10.0 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| | -8.5 | -9.1 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| | -7.0 | -7.6 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| | -5.0 | -5.6 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.4 |
| | -3.0 | -3.7 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.4 |
| | 0.0 | -0.7 | 9.4 | 9.4 | 9.4 | 9.4 | 9.2 | 8.4 |
| | 3.0 | 2.2 | 10.0 | 10.0 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 5.0 | 4.1 | 10.3 | 10.3 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 7.0 | 6.0 | 10.7 | 10.7 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 9.0 | 7.9 | 11.1 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 11.0 | 9.8 | 11.4 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 13.0 | 11.8 | 11.6 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 15.0 | 13.7 | 11.6 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |

## [60Hz]

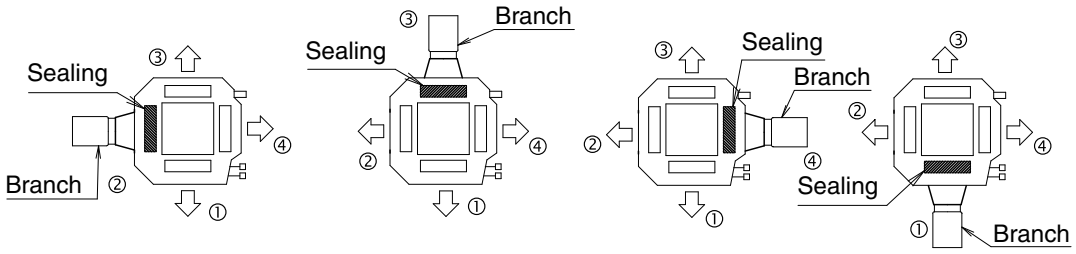
**Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp. : °CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 100 | -14.7 | -15.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| | -12.6 | -13.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| | -10.5 | -11.0 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 |
| | -9.5 | -10.0 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 |
| | -8.5 | -9.1 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| | -7.0 | -7.6 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| | -5.0 | -5.6 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.5 |
| | -3.0 | -3.7 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 10.5 |
| | 0.0 | -0.7 | 11.8 | 11.8 | 11.8 | 11.8 | 11.5 | 10.5 |
| | 3.0 | 2.2 | 12.5 | 12.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 5.0 | 4.1 | 13.0 | 13.0 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 7.0 | 6.0 | 13.4 | 13.4 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 9.0 | 7.9 | 13.8 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 11.0 | 9.8 | 14.3 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 13.0 | 11.8 | 14.5 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 15.0 | 13.7 | 14.5 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| 125 | -14.7 | -15.0 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| | -12.6 | -13.0 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| | -10.5 | -11.0 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| | -9.5 | -10.0 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 |
| | -8.5 | -9.1 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 |
| | -7.0 | -7.6 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 |
| | -5.0 | -5.6 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.5 |
| | -3.0 | -3.7 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 13.5 |
| | 0.0 | -0.7 | 15.1 | 15.1 | 15.1 | 15.1 | 14.7 | 13.5 |
| | 3.0 | 2.2 | 16.0 | 16.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 5.0 | 4.1 | 16.5 | 16.5 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 7.0 | 6.0 | 17.1 | 17.1 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 9.0 | 7.9 | 17.6 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 11.0 | 9.8 | 18.2 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 13.0 | 11.8 | 18.4 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 15.0 | 13.7 | 18.4 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

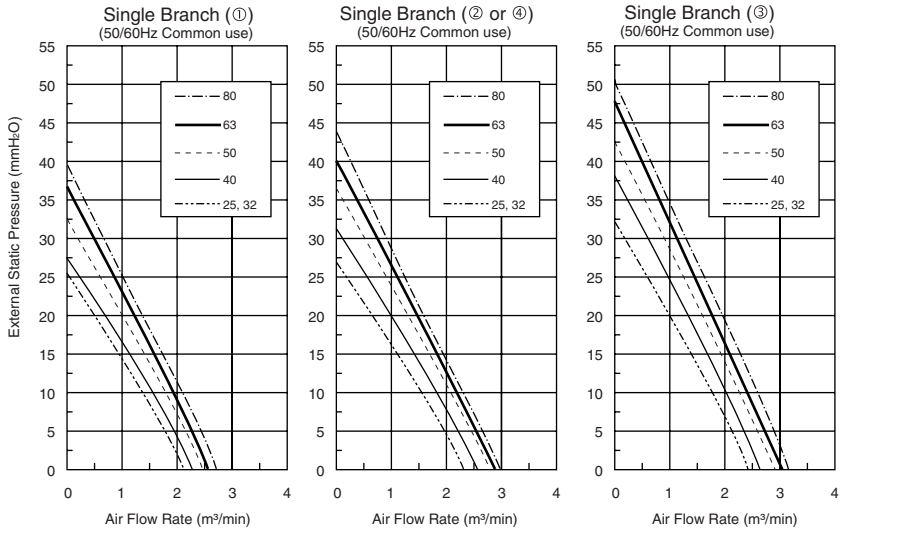
# 7. Fan Performance and Discharge Pattern in case of using Branch Duct

### Single Branch — 3 Way Discharge



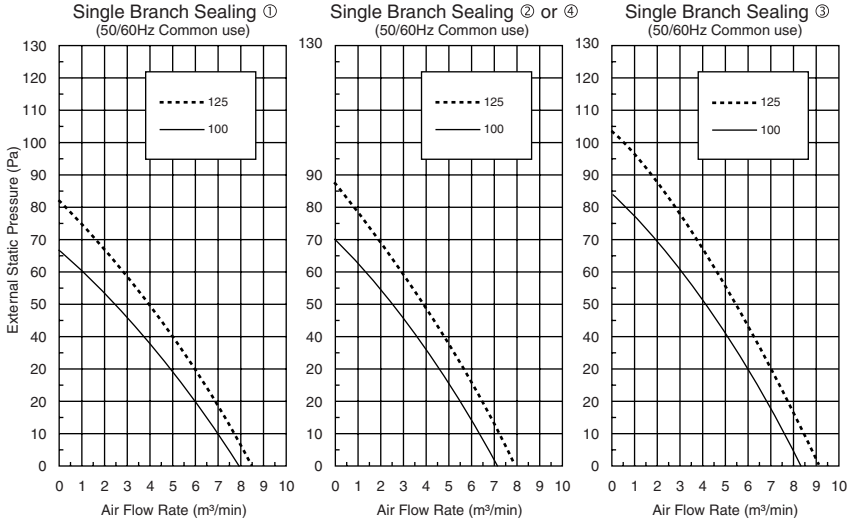

(V0690)

**25~80**



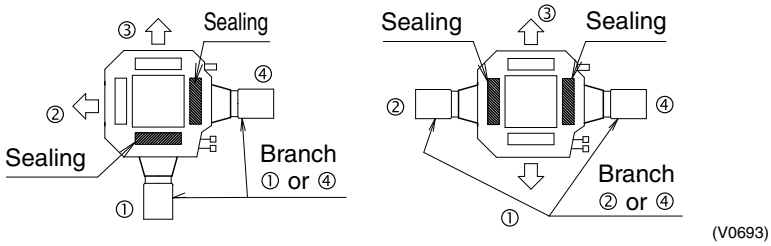

(V0691)

**100, 125**



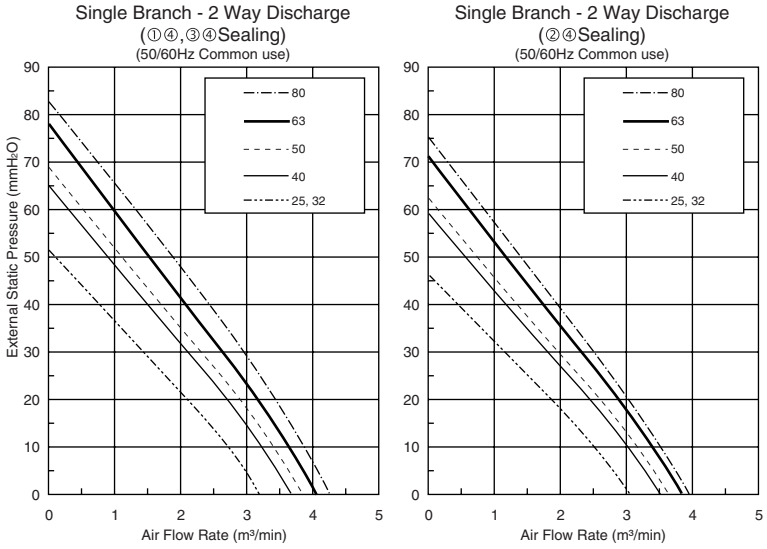

(V0692)

## Single Branch — 2 Way Discharge



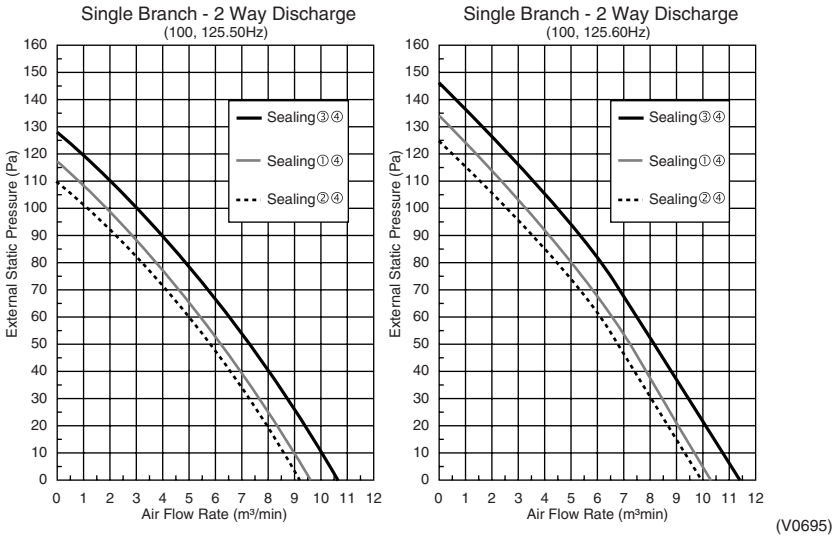

(V0693)

**25~80**



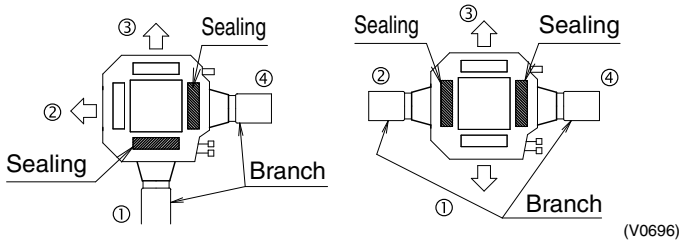

(V0694)

**100, 125**



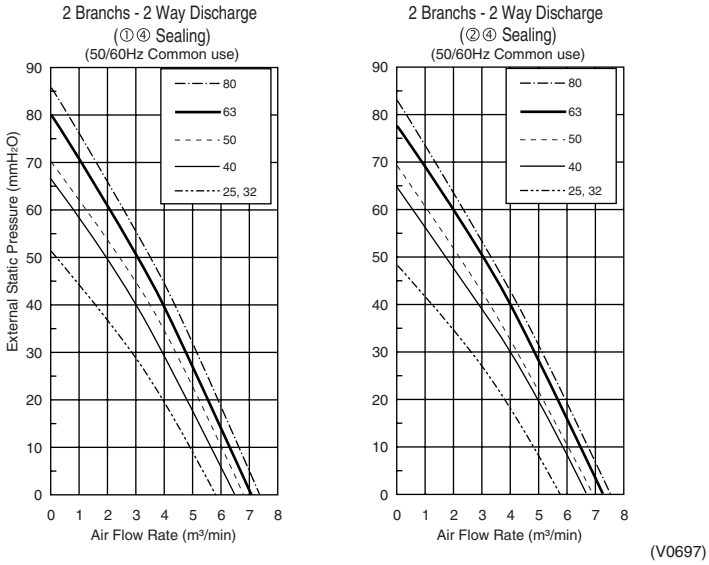

(V0695)

## 2 Branches — 2 Way Discharge



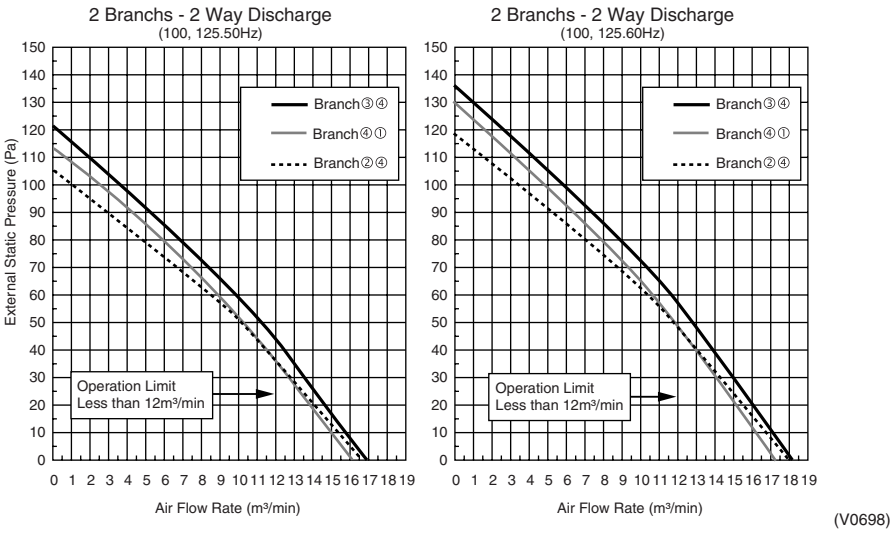

(V0696)

**25~80**




(V0697)

**100, 125**



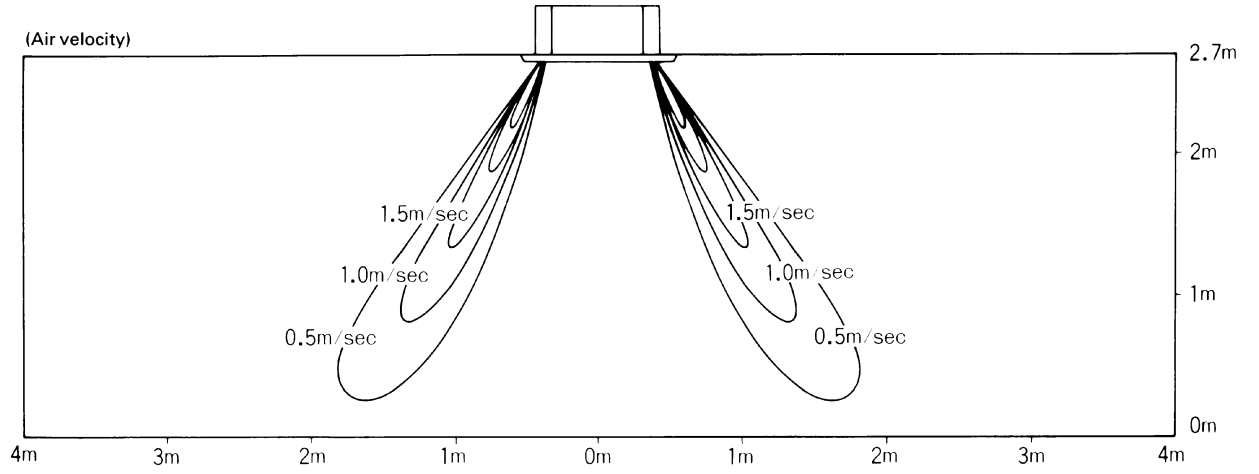

(V0698)

# 8. Air Velocity and Temperature Distributions (Reference Data)



**FXF63L**

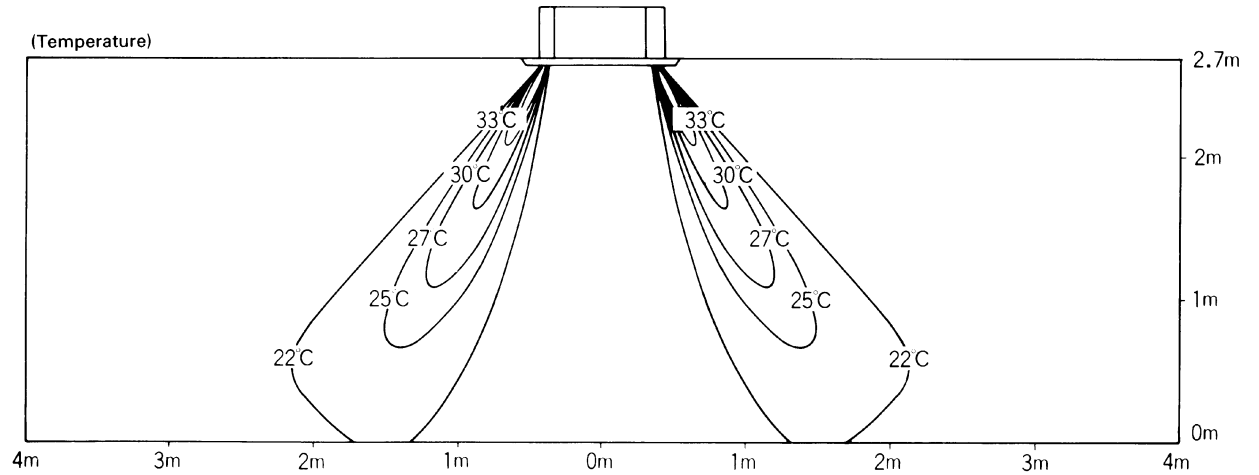
**(Heating·Air Velocity Distribution)**
**Discharge Angle : 65°**




(V0456)

**FXF63L**

**(Heating·Temperature Distribution)**
**Discharge Angle : 65°**

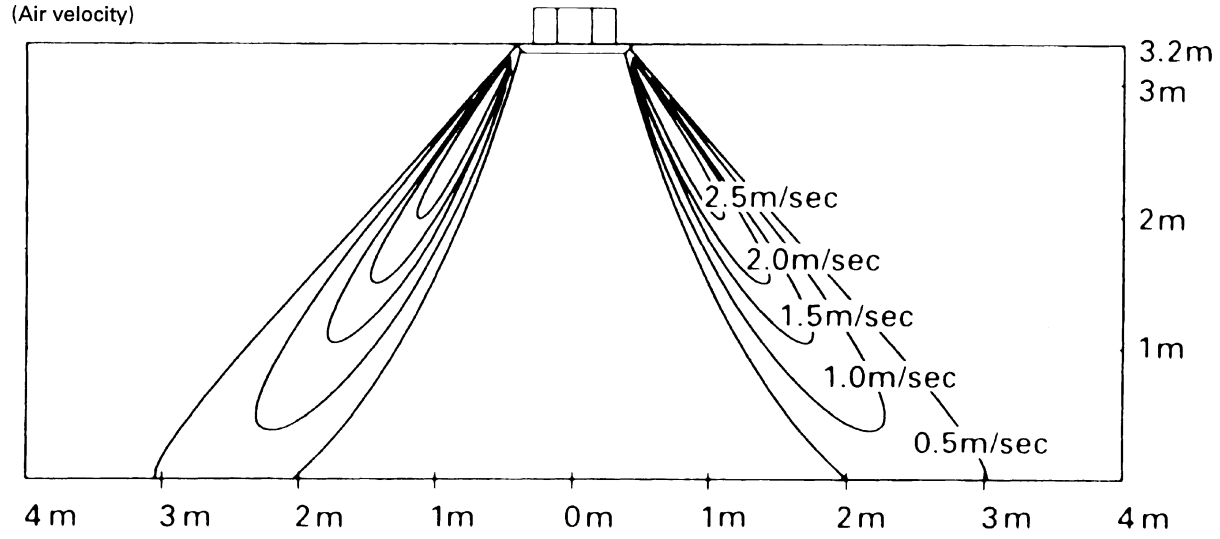



(V0457)

**Note:**
The standard setup height the Multi flow type is 2.7m maximum. Shown here is the measurement distribution at the ceiling height of 2.7m.

**FXF125L**

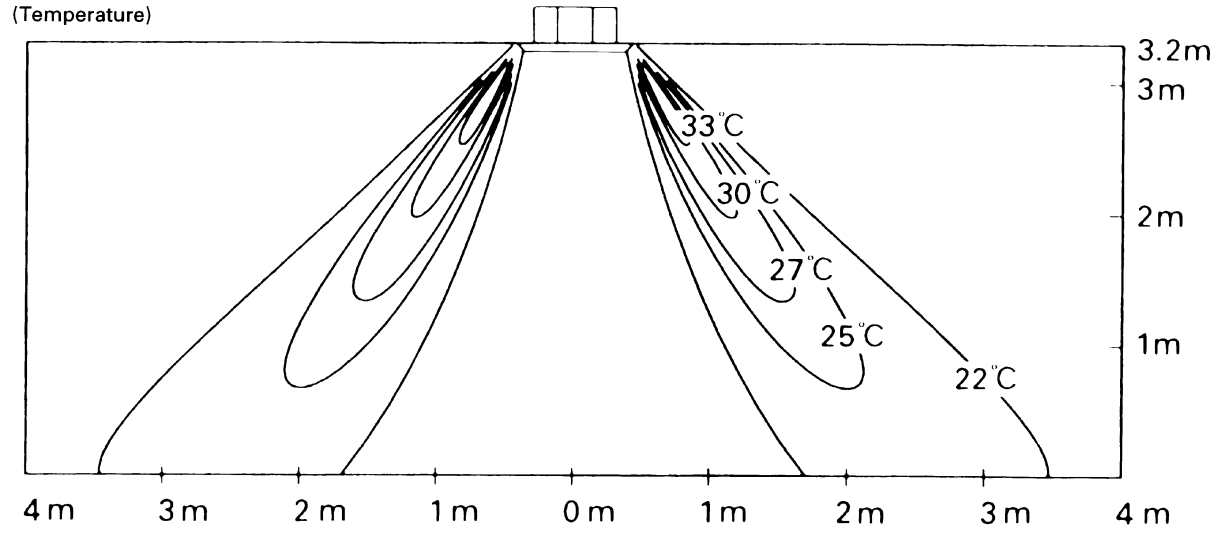
**(Heating·Air Velocity Distribution)**
**Discharge Angle : 65°**




(V0458)

**FXF125L**

**(Heating·Temperature Distribution)**
**Discharge Angle : 65°**




(V0459)

**Note:**
The standard setup height the Multi flow type is 3.2m maximum. Shown here is the measurement distribution at the ceiling height of 3m.

# 9. Electric Characteristics

| Units | | | | | Power supply | | IFM | | Input(W) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Type | Hz | Volts | Voltage range | MCA | MFA | kW | FLA | Cooling | Heating |
| FXF25L, FXFQ25M | VE VEC | 50 | 220-240 | MAX. 264 Min. 198 | 0.3 | 15 | 0.030 | 0.2 | 43 | 30 |
| FXF32L, FXFQ32M | | | | | 0.3 | 15 | 0.030 | 0.2 | 43 | 30 |
| FXF40L, FXFQ40M | | | | | 0.3 | 15 | 0.030 | 0.2 | 47 | 34 |
| FXF50L, FXFQ50M | | | | | 0.3 | 15 | 0.030 | 0.2 | 53 | 38 |
| FXF63L, FXFQ63M | | | | | 0.4 | 15 | 0.030 | 0.3 | 67 | 54 |
| FXF80L, FXFQ80M | | | | | 0.5 | 15 | 0.030 | 0.4 | 94 | 76 |
| FXF100L, FXFQ100M | | | | | 0.6 | 15 | 0.120 | 0.5 | 89 | 94 |
| FXF125L, FXFQ125M | | | | | 0.9 | 15 | 0.120 | 0.7 | 121 | 125 |
| FXF25L, FXFQ25M | VE | 60 | 220 | MAX. 242 Min. 198 | 0.3 | 15 | 0.030 | 0.2 | 42 | 30 |
| FXF32L, FXFQ32M | | | | | 0.3 | 15 | 0.030 | 0.2 | 42 | 30 |
| FXF40L, FXFQ40M | | | | | 0.3 | 15 | 0.030 | 0.2 | 46 | 34 |
| FXF50L, FXFQ50M | | | | | 0.3 | 15 | 0.030 | 0.2 | 51 | 38 |
| FXF63L, FXFQ63M | | | | | 0.4 | 15 | 0.030 | 0.3 | 66 | 54 |
| FXF80L, FXFQ80M | | | | | 0.5 | 15 | 0.030 | 0.4 | 93 | 76 |
| FXF100L, FXFQ100M | | | | | 0.6 | 15 | 0.120 | 0.5 | 88 | 94 |
| FXF125L, FXFQ125M | | | | | 0.9 | 15 | 0.120 | 0.7 | 120 | 125 |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
kW : Fan Motor Rated Output(kW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range

   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

   MCA = 1.25 X FLA

   MFA ≦ 4 X FLA
   (Next lower standard fuse rating. Min. 15A)

4. Select wire size based on the MCA.

5. Instead of fuse, use Circuit Breaker.

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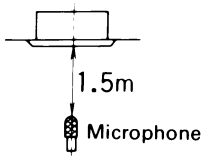
# 10. Sound Levels

## Overall

■ **Ceiling Mounted Cassette Type (Multi Flow Type)**
**- Super Cassette -**




(V0471)

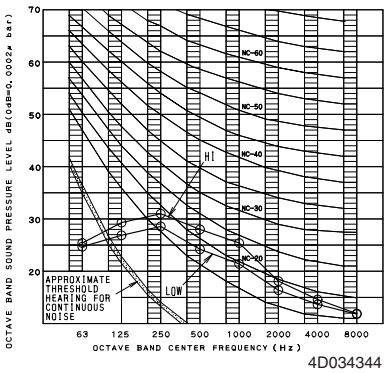
**Note:**
1. The operating conditions are assumed to be standard (JIS conditions)
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

dBA

| Model | 50/60Hz | |
|---|---|---|
| | H | L |
| FXF25L | 30 | 27 |
| FXF32L | 30 | 27 |
| FXF40L | 31 | 27 |
| FXF50L | 32 | 27 |
| FXF63L(C/H) | 33/34 | 28 |
| FXF80L | 36 | 31 |
| FXF100L | 39 | 33 |
| FXF125L(C/H) | 42/43 | 36 |

## Octave Band Level

### FXF25L / FXF32L

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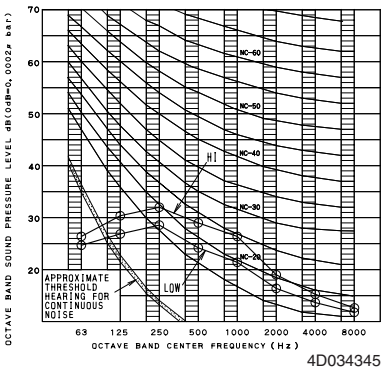
### FXF40L

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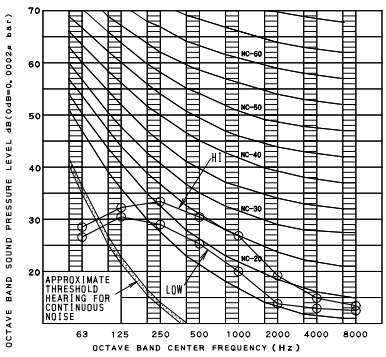
### FXF50L

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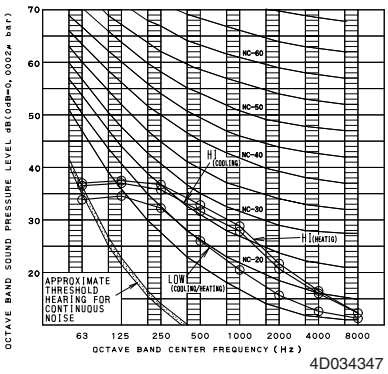
### FXF63L

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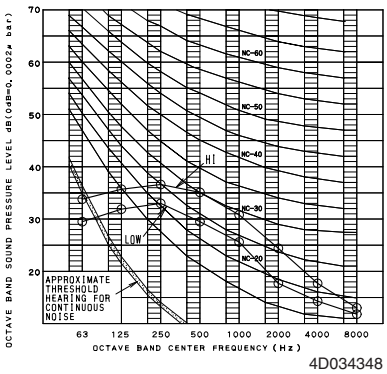
### FXF80L

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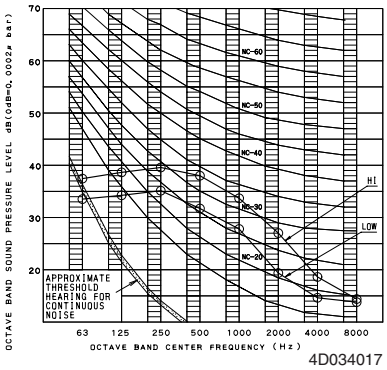
### FXF100L

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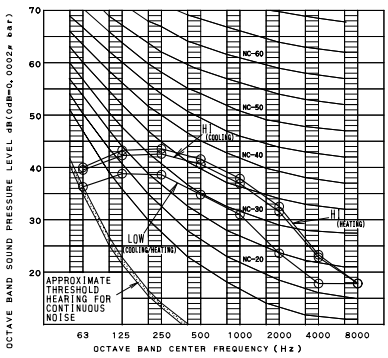
### FXF125L

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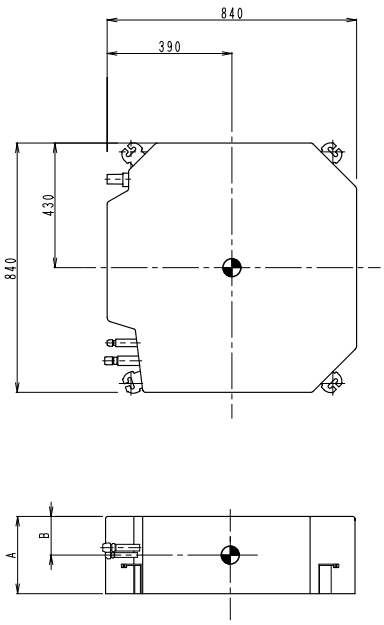
# 11. Installation

## Center of Gravity




Unit (mm)

| MODEL NAME | A | B |
|---|---|---|
| FXF25~80LVE | 246 | 90 |
| FXF100~125LVE | 288 | 120 |

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## Service Space for Indoor Units

Unit (mm)

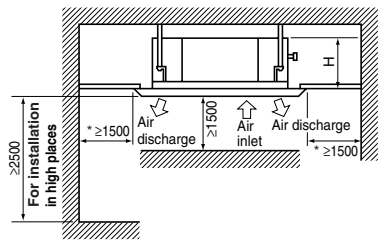



Fig. 1

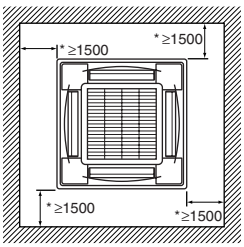


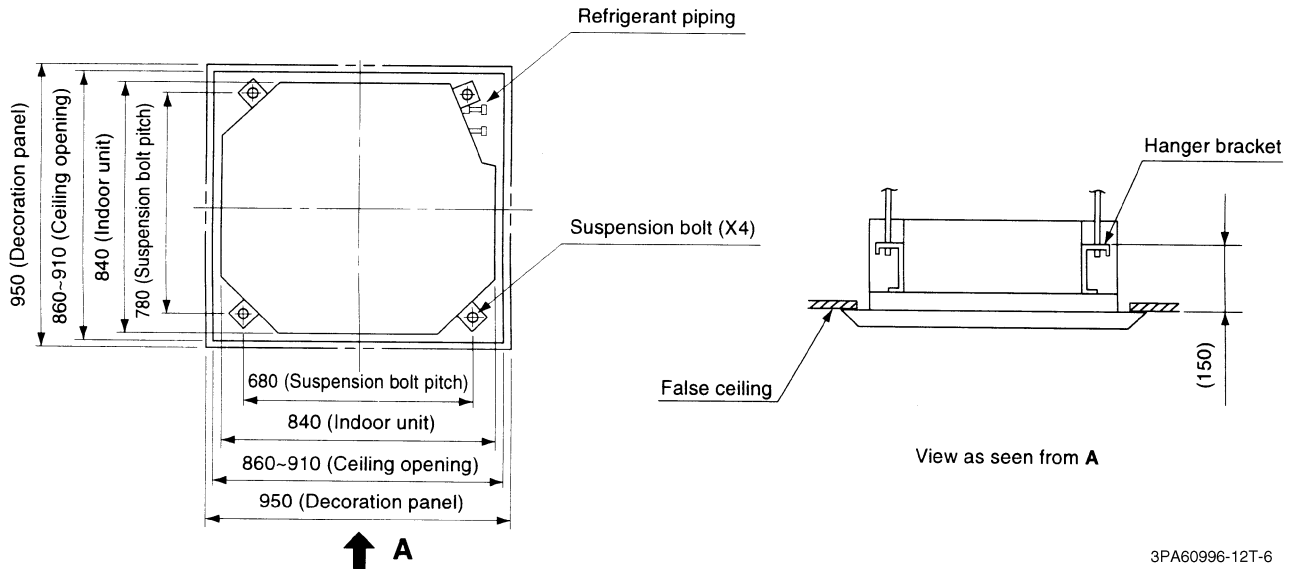

Fig. 2

NOTE
・Leave 200 mm or more space where marked with the *, on sides where the air outlet is closed.

| Model | H |
|---|---|
| FXF25·32·40·50·63·80L | 256 |
| FXF100·125L | 298 |

**Note:**
Above figure means minimum value. Please these value at least.

**Bolt Pitch**




**Drain Pump Kit**

| Indoor unit | Drain pump kit |
|---|---|
| FXF~L | Standard (Equipped with indoor unit) |

(**1)** Rig drain piping

- Lay pipes so as to ensure that drainage can occur with no problems.
- Employ a pipe with either the same diameter or with the diameter larger (excluding the raising section) than that of the connecting pipe (PVC pipe, nominal diameter 25 mm, outside diameter 32 mm).
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air pockets from forming.
- If the drain hose cannot be sufficiently set on a slope, execute the drain raising piping.
- To keep the drain hose from sagging, space hanging wires every 1 to 1.5 m.

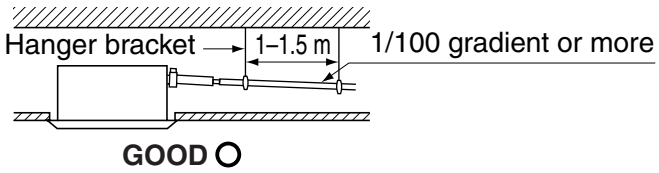



Fig. 18

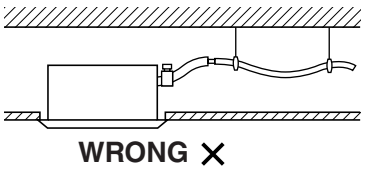



Fig. 19

- Use the attached drain hose (1) and clamp (2).
- Insert the drain hose into the drain socket up to the base, and tighten the clamp securely within the portion of a white tape of the hose-inserted tip. Tighten the clamp until the screw head is less than 4 mm from the hose.
- Wrap the attached sealing pad (10) over the clamp and drain hose to insulate.
- Make sure that heat insulation work is executed on the following 2 spots to prevent any possible water leakage due to dew condensation.
  - Indoor drain pipe
  - Drain socket

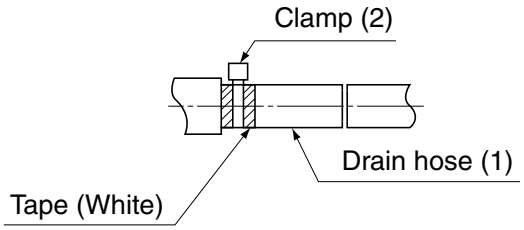



Fig. 20

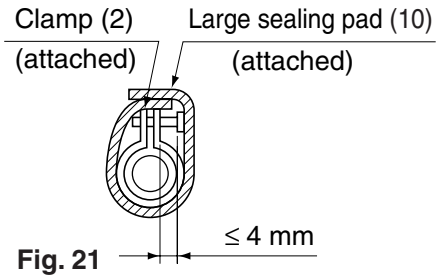



Fig. 21

**<PRECAUTIONS FOR DRAIN RAISING PIPING>**

- Install the drain raising pipes at a height of less than 550 mm.
- Install the drain raising pipes at a right angle to the indoor unit and no more than 300 mm from the unit.

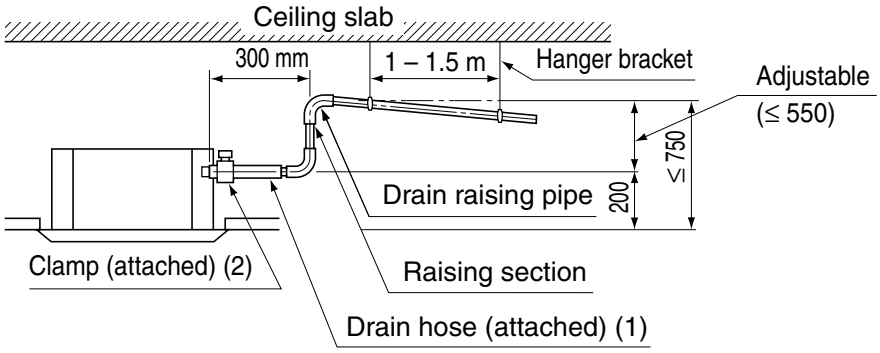



Fig. 22

**NOTE**

- To ensure no excessive pressure is applied to the included drain hose (1), do not bend or twist when installing. (This may cause leakage.)
- If converging multiple drain pipes, install according to the procedure shown below.

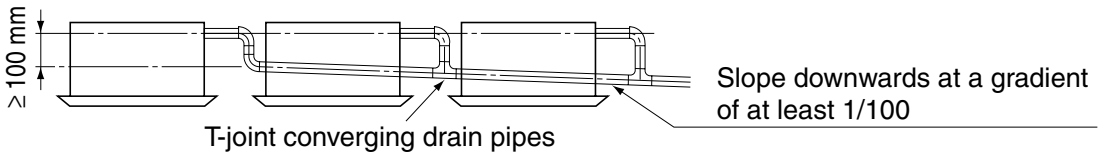



Fig. 23

Select converging drain pipes whose gauge is suitable for the operating capacity of the unit.

**(2)** After piping work is finished, check if drainage flows smoothly.
- Add approximately 2000 cc of water slowly from the air outlet and check drainage flow.

**WHEN ELECTRIC WIRING WORK IS FINISHED**
- Check drainage flow during COOL running, explained under “TEST OPERATION”.

**WHEN ELECTRIC WIRING WORK IS NOT FINISHED**
- Remove the terminal box lid connect a power supply and remote controller to the terminals. (Refer to the Installation Manual)

  Next, press the inspection/test operation button “ TEST ” on the remote controller. The unit will engage the test operation mode. Press the operation mode selector button “ ” until selecting FAN OPERATION “ ”. Then, press the ON/OFF button “ ”. The indoor unit fan and drain pump will start up. Check that the water has brained from the unit. Press “ TEST ” to go back to the first mode.
- **Note that the fan also starts rotating.**
- Attach the terminal box lid as before.

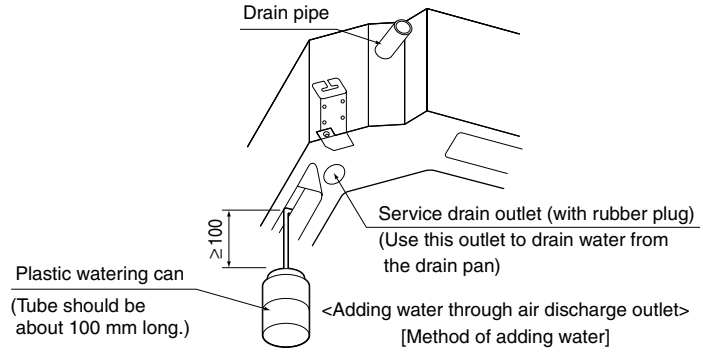



Fig. 24

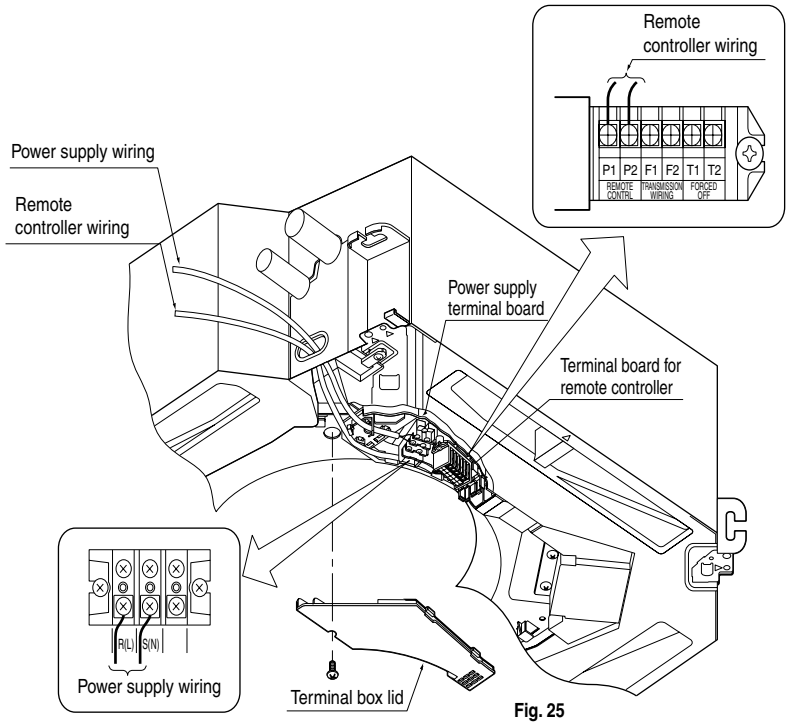



Fig. 25

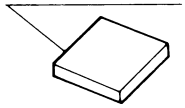
**⚠ CAUTION**

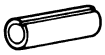
Drain piping connections
Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.

# 12. Accessories

## Standard Accessories

**FXF25L~125L**

| Name | ① Drain hose | ② Clamp metal | ③ Washer for hanging bracket | ④ Clamp | ⑤ Paper pattern for installation |
|---|---|---|---|---|---|
| Quantity | 1 pc. | 1 pc. | 8 pcs. | 8 pcs. | 1 pc. |
| Shape | | | | | Also used as packing material  |

| Name | ⑥ Screws (M5) | ⑦ Washer fixing plate | Insulation for fitting | Sealing pad | | (Other) |
|---|---|---|---|---|---|---|
| Quantity | 4 pcs. | 4 pcs. | 1 each | 1 each | 1 pcs. | |
| Shape | For paper pattern for installation | |  ⑧ for gas pipe ⑨ for liquid pipe | ⑩ Large ⑪ Medium | ⑫ Small | ● Installation manual ● Operation manual |

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## Optional Accessories (For Unit)

| Item | | | Model | FXF25LVE | FXF32LVE | FXF40LVE | FXF50LVE | FXF63LVE | FXF80LVE | FXF100LVE | FXF125LVE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Decoration Panel | | | | BYCP125D-W1 | | | | | | | |
| Sealing material of air Discharge outlet | | | | KDBH55D160W | | | | | | | |
| Panel Spacer | | | | KDBJ55K160W | | | | | | | |
| Filter related | High efficiency filter unit | 65% | | KAFP556D80 | | | | | | KAFP556D160 | |
| | | 90% | | KAFP557D80 | | | | | | KAFP557D160 | |
| | Replacement high efficiency filter | 65% | | KAFJ552K80 | | | | | | KAFJ552K160 | |
| | | 90% | | KAFJ553K80 | | | | | | KAFJ553K160 | |
| | Filter chamber | | | KDDFP55D160 | | | | | | | |
| | Long life replacement filter | Non-woven type | | KAFJ551C160 | | | | | | | |
| | Ultra long-life filter | | | KAFP55D160 | | | | | | | |
| | Replacement ultra long-life filter | | | KAFJ55K160H | | | | | | | |
| Fresh air intake kit | Chamber type | Without T shape pipe and fan | | KDDP55D160 | | | | | | | |
| | | With T shape pipe without fan | | KDDP55D160K | | | | | | | |
| | Direct installation type | | | KDDJ55X160 | | | | | | | |
| Branch duct chamber | | | | KDP55D80 | | | | | | KDP55D160 | |
| Chamber connection kit | | | | KKSJ55K160 | | | | | | | |
| Insulation kit for high humidity | | | | KDT-55D80 | | | | | | KDT-55D160 | |

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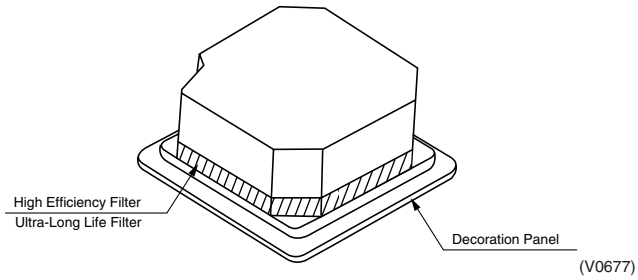
## Optional Accessories (For Controls) Refer to P.484.




(V0677)

**BYCP125D-W1 – Decoration Panel**

# 1. BEFORE INSTALLATION

## 1. PRECAUTIONS

- Refer also to the installation manual attached to the indoor unit.

## 2. ACCESSORIES

Installation manual.

## 3. NOTE TO INSTALLER

Be sure to instruct the customer how to properly operate the system showing him/her the attached operation manual.

# 2. PREPARATION OF DECORATION PANEL

For this unit, you are able to select air flow directions. To discharge air in 2 or 3 directions, it is necessary to purchase optional blocking pad kit.

**HANDLING OF DECORATION PANELS**

Never place the panel facing down nor lean it against a wall nor leave it on a projecting object.
Never touch or put pressure on the swing flap.
(The swing flap may malfunction)

**(1)** Remove the swing flap motor lead wire on the back of the decoration panel form the hook.
Push the wires outward to the frame surface and remove the wires from the hook in the middle.
**(Refer to Fig. 1)**

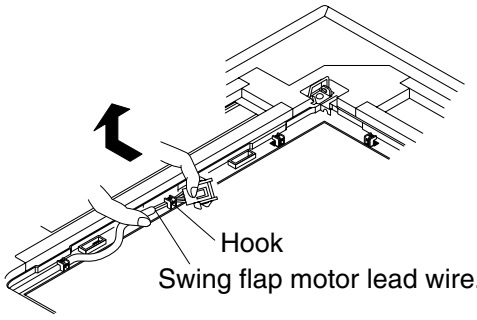



**Fig. 1**

**(2)** Remove the suction grille from the decoration panel.

**1** Push the suction grille lever inward and lift up the lever side. **(Refer to Fig. 2)**

**2** Detach the suction grille from the decoration panel by lifting the grille up approximately 45 degrees. **(Refer to Fig. 3)**

**(3)** Remove the service cover on the corner.
Slide the service cover outward to remove. **(Refer to Fig. 4)**

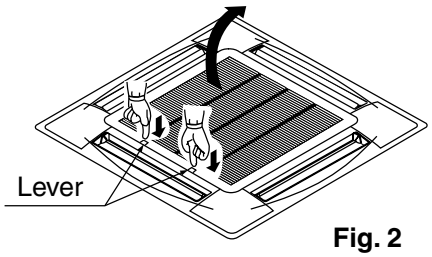



**Fig. 2**

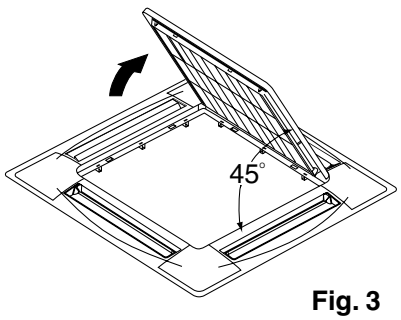



**Fig. 3**

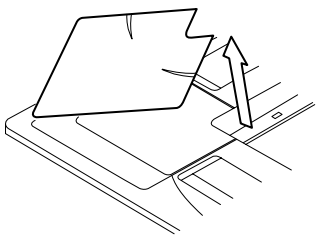


**Fig. 4**

## 3. INSTALLATION OF THE DECORATION PANEL TO THE INDOOR UNIT BODY

Refer to the installation manual attached to the indoor unit for the installation of the indoor unit.

**(1)** Match the “PIPING SIDE” and “DRAIN SIDE” displays on the decoration panel with the position of the piping section and drain section on the indoor unit.

**(2)** Install the decoration panel

**1** Temporarily install the decoration panel to the indoor unit by hanging the latch on the opposite side of the swing flap motor of the decoration panel to the hook of the indoor unit body. (2 positions)

**2** Temporarily hang the remaining 2 latches to the hooks on the sides of the indoor unit. (Be careful not to let the swing motor lead wire get caught in the sealing material.)

**3** Screw all 4 hexagon head screws located right beneath the latches in approximately 5 mm. (Panel will rise)

**4** Adjust the decoration panel by turning it to the arrowed direction in Fig. 5 so that the ceiling opening is completely covered.

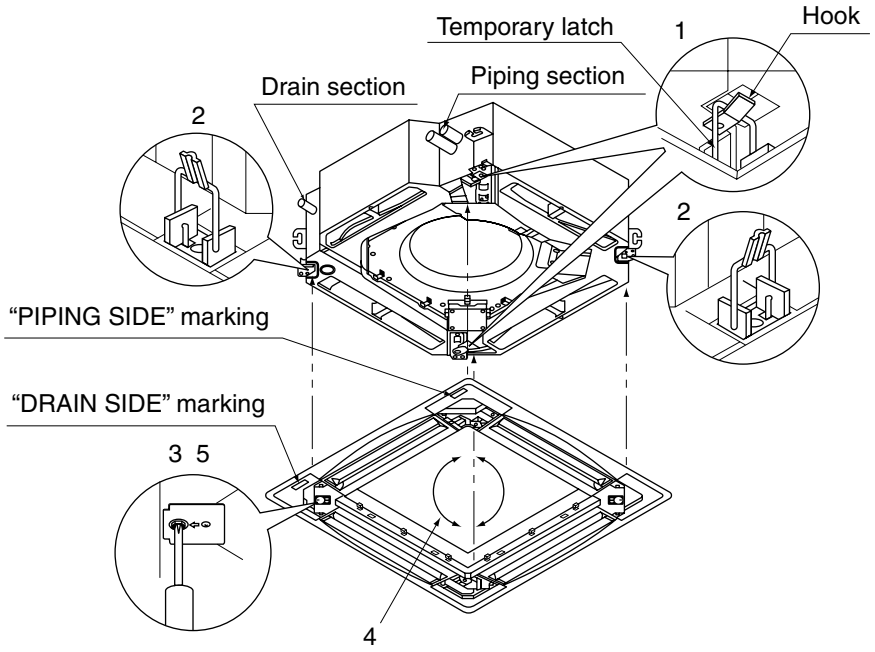



**Fig. 5**

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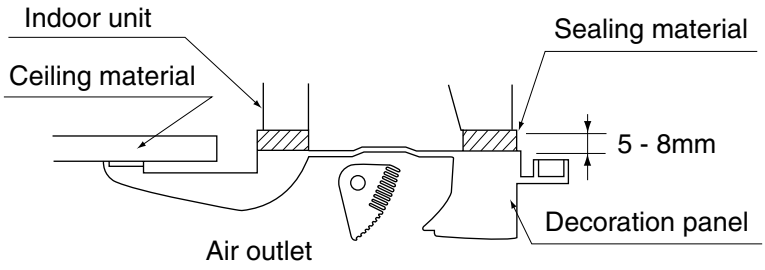
**5** Tighten the screws until the thickness of the sealing material between the decoration panel and the indoor unit body reduces to 5-8 mm.




**[ PRECAUTIONS ]**

Inproper screwing of the screws may cause the troubles shown in Fig. 6 Screw properly.

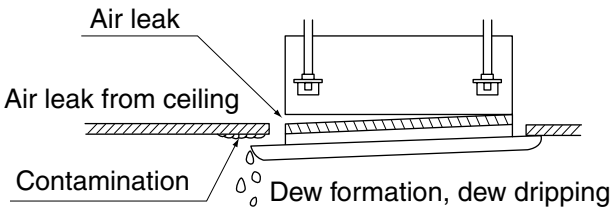



**Fig. 6**

If gap is still left between the ceiling and the decoration panel after screwing the screws, readjust the indoor unit body height. **(Refer to Fig. 7)**

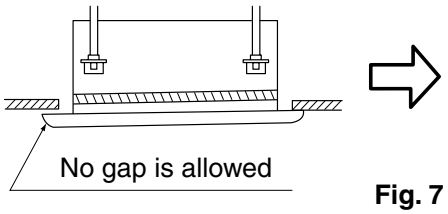
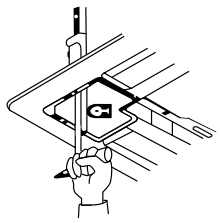



**Fig. 7**

Adjustment of the indoor unit body height from the holes in the corner of the decoration panel is possible if the indoor unit is kept leveled and the drain piping, etc. is unaffected.



**(3)** Wiring of the decoration panel **(Refer to Fig. 8)**

**6** Remove the terminal box lid.

**7** Connect the connectors for swing flap motor lead wire installed on the decoration panel.

**8** Replace the terminal box lid reversing the procedure to remove it.

Make sure that the swing flap motor lead wire is not caught between the indoor unit and the decoration panel.

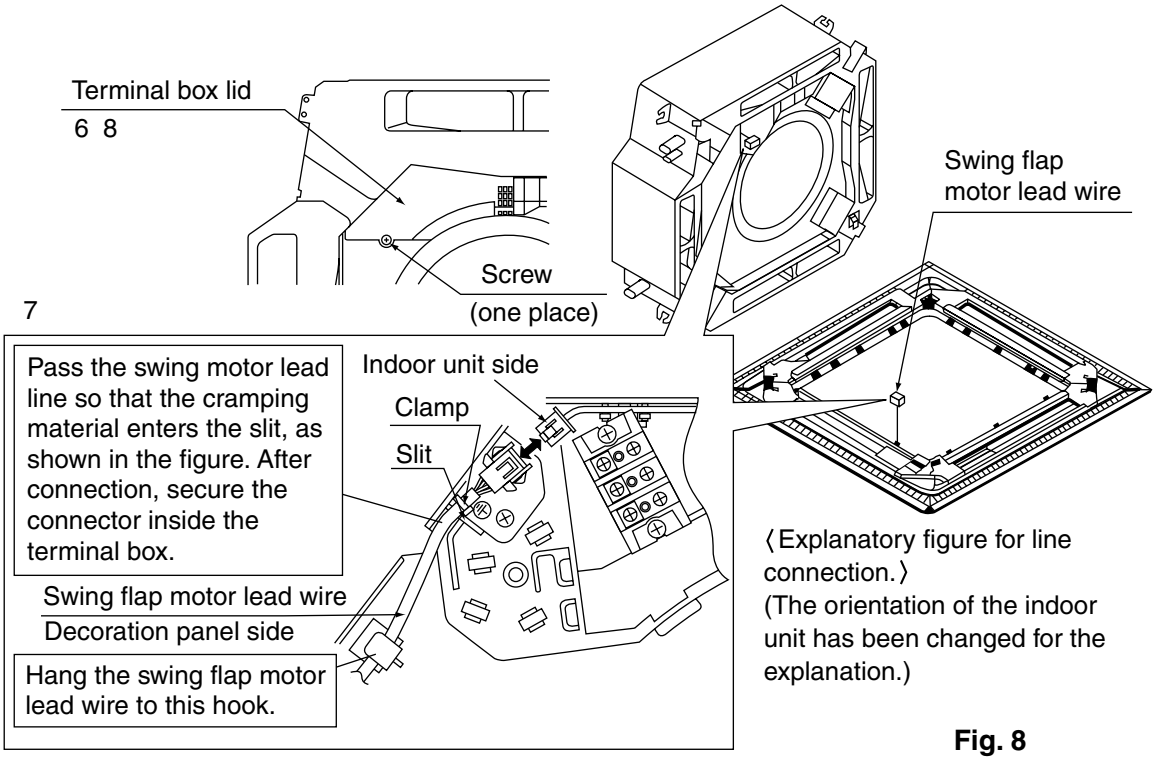



**Fig. 8**

## 4. INSTALLATION OF SUCTION GRILLE AND SERVICE COVER

**(1)** Install the suction grille
Install by reversing the procedure shown in “PREPARATION OF DECORATION PANEL”.
It is possible to install the suction grille in 4 directions by turning the suction grille.
Change the direction when adjusting the direction of the suction grille of multiple units or in meeting customers’ demands.

**NOTE**
Be careful not to get swing flap motor lead wire get caught when installing the suction grille.

**(2)** Install the service cover on the corner.

**1** Attach the string of the service cover to the pin of the decoration panel. **(Refer to Fig. 9)**

**2** Install the service cover over the decoration panel. **(Refer to Fig. 10)**

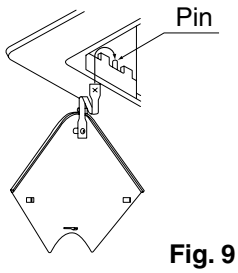



**Fig. 9**

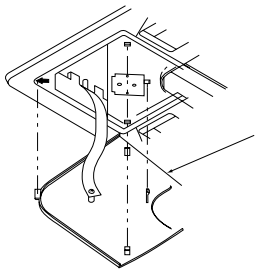



**Fig. 10**

3PA64319_11M_P4

3

## KDBH55D160W – Sealing Member of Air Discharge Outlet

**Caution**

- Refer to the installation manual for both indoor unit and the decoration panel.
- When you install other optional kit , it may not be possible to select the 3-way or 2-way air discharge. (followed table)
  For details , refer to the manual for the optional kit or the catalogue.

| Optional kit | 4-way air discharge | 3-way air discharge | 2-way air discharge |
|---|---|---|---|
| Branch duct chamber | ○ | ○ | ○ |
| High efficiency filter chamber | ○ | × Not possible to install | × Not possible to install |

**Contents of Kit**

Prior to installation make sure you have the complete of parts.

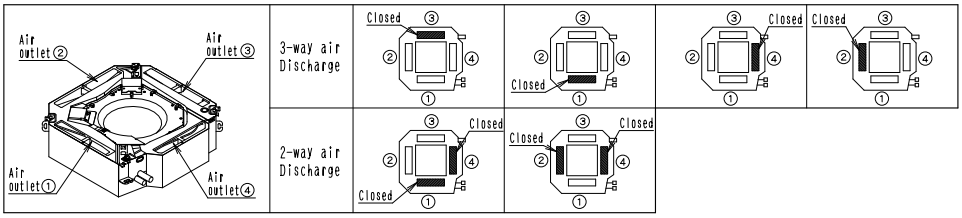
| Name | Sealing Material | Tape for fixing the Sealing Material | Insulation for Side Plate | Moisture Absorber for Bell-Mouth | Moisture Absorber for Swing flap | Spacer | Spacer installation screw |
|---|---|---|---|---|---|---|---|
| Quantity | 2 pieces | 2 pieces | 2 pieces | 1 pieces | 3 pieces | 1 pieces | 1 pieces |
| Shape・marking | ① | ② | ③ 100mm×1480mm | ④ 55mm×1055mm | ⑤ | ⑥ | ⑦ (M3x10) |

### ❶ The direction of air discharge and the positioning of sealing material

(1) Selection of the air outlet

- Select the direction of air discharge from the following table according to the location of the indoor unit.
  Refer to ❷ Setting of indoor unit Setting of indoor unit for setting position number.
  Refer to the installation manual attached to the indoor unit for selection of installation location.

**Caution** Never select the direction of air discharge other than the following pattern.
(You may have a condensation problem.)

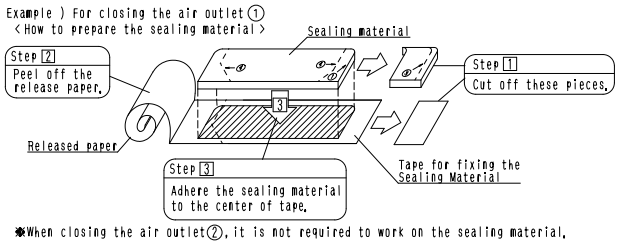



(2) Prepare the sealing material and the tape for fixing the sealing material according to the air outlet No. to be closed.

- Cut off the sealing material and the tape along the perforated lines (marked ———).
- Adhere the sealing material to tape. (Make sure that the sealing material is placed at the center of the tape.)

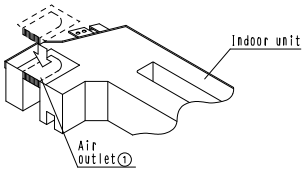
Example ) For closing the air outlet ①

<How to prepare the sealing material>




※When closing the air outlet②, it is not required to work on the sealing material.

(3) Adhere the sealing material prepared according to the procedure (2) to the indoor unit air outlet.




<Installation for air outlet>

**Caution**

The sealing material has directional characteristics.
Make sure to adhere the sealing material fixing tape in the direction which the parts from ①to④can be seen as shown above.

## ❷ Setting for indoor unit

It is required to make a field setting from the remote controller according to how the indoor units are installed.
The direction of air discharge must also be set by the remote controller.

- The 3 different kinds of setting such as "Mode number", "The setting switch number" and "The setting position number" must be made by the remote controller.
- Refer to the item of "Field setting" in the operation manual of the remote controller for the setting procedure.

(1) Setting according to number of use of the air discharge.
Check the setting position number corresponding to the direction of air discharge in a right table.

(Content of setting)

| (Number of use of air outlets) | Mode number | The setting switch number | The setting position number |
|---|---|---|---|
| 3-way air discharge | 13(23) | 1 | 02 |
| 2-way air discharge | | | 03 |

Note) Refer to the table for height of the ceiling for each direction of air outlet. (The setting of the ceiling height is also required.)

(2) Setting according to height of ceiling.
As for the ceiling height, see the left table below which shows the standard of ceiling height and number of air outlets to be used.
Then, taking this standard into account, make a field setting of ceiling height from the remote controller according to the right table below.

(Standards of ceiling height and number of air outlets)

| Indoor unit (FHYCP, FXF) | | Number of use of air outlets | | | | | |
|---|---|---|---|---|---|---|---|
| | | 25~80 type | | | 100~140 type | | |
| | | 4-way air discharge | 3-way air discharge | 2-way air discharge | 4-way air discharge | 3-way air discharge | 2-way air discharge |
| Ceiling height (m) | Standard | ~2.7 | ~3.0 | ~3.5 | ~3.2 | ~3.6 | ~4.2 |
| | Semi-high | 2.7~3.0 | 3.0~3.3 | 3.5~3.8 | 3.2~3.6 | 3.6~4.0 | ~4.2 |
| | High | 3.0~3.5 | 3.3~3.5 | —— | 3.6~4.2 | 4.0~4.2 | —— |

(Content of setting)

| | | Mode number | The setting switch number | The setting position number |
|---|---|---|---|---|
| Ceiling height (m) | Standard | 13(23) | 1 | 01 |
| | Semi-high | | | 02 |
| | High | | | 03 |

(Ceiling height is reference value)

## ❸ Installation of the insulation

Please turn off the power supply for safety absolutely, before you do installation of the decoration panel and affixation of insulation and connected work of swing conector.

(1) Adhere the insulations for side plate ③ in position, referring Fig. 1.
(2) Adhere the moisture absorber for bell-mouth ④ on the inner surface of the bell-mouth. See Fig. 1 Fig. 2.
(3) Adhere the moisture absorber for swing flap aligning with the upper edge of the swing flap on the air outlet. See Fig. 3.

Fig. 1

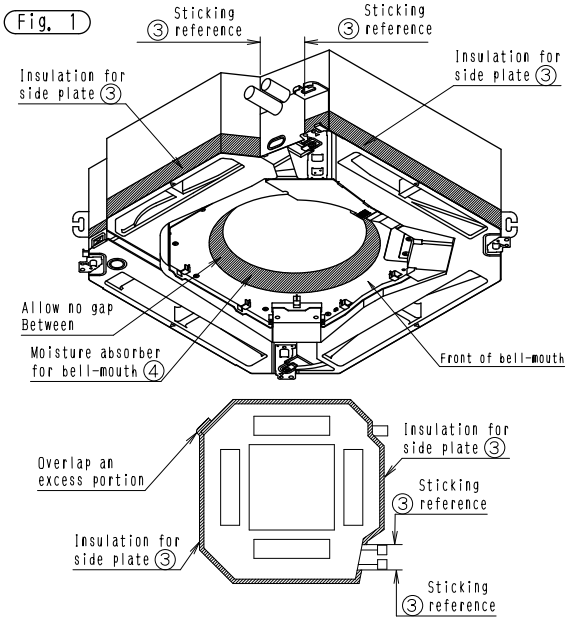



Fig. 2

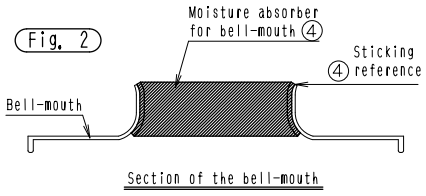
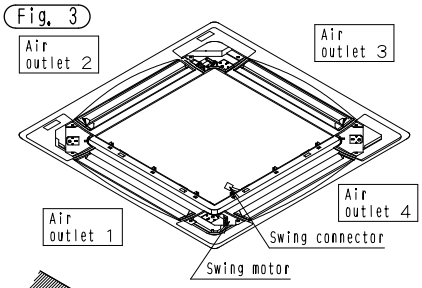
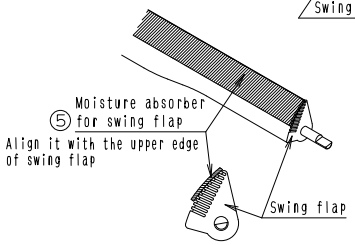



Fig. 3

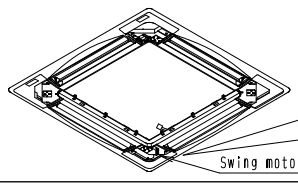


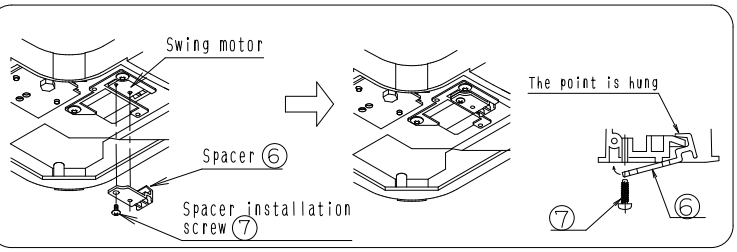




※All air outlets which are not closed.

## ❹ Installation of the spacer

Please install spacer ⑥ on the swing motor with the spacer installation screw ⑦.




1P088448A-2/2

## KDBJ55K160W – Panel Spacer

**Combination table**

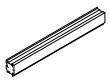
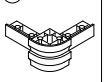
| | |
|---|---|
| Panel spacer | KDBJ55K160W |
| Decoration panel | BYCP125D-W1 |

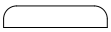
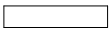
**Caution**

- When the Panel Spacer is installed, it is not possible to have 2-way air outlet.
- Refer to the installation manual for both indoor unit and the Panel spacer for its installation.

**Contents of kit**

Check if following parts are included with your kit.

| Name | Panel spacer frame | Resin corner part | Fixing metal | Screw |
|---|---|---|---|---|
| Quantity | 4 PCS. | 4 PCS. | 4 PCS. | 28 PCS. |
| Shape • number | ①  | ②  | ③ | ④ M4×12 Tapping screw (Class 2) |

| Name | Sealing material | | Caution label |
|---|---|---|---|
| Quantity | 2 PCS. | 2 PCS. | 1 PC. |
| Shape • number | ⑤  | ⑥  | ⑦ |

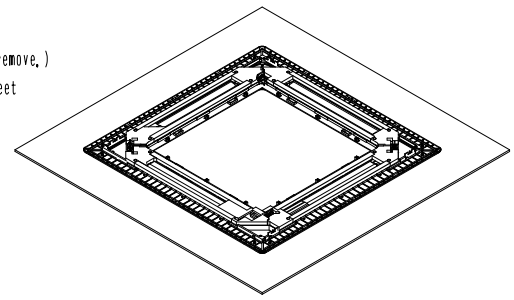
### ❶ Preparation of the Decoration panel

- Handle the decoration panel with care.

Never place the panel face down, or lean the panel against wall or place on the projective object.
(It causes the dent or damage of the surface of the panel or damage of swing motor.)

(1) Remove the suction grill from the decoration panel.
( Refer to the installtion manual of the decoration panel how to remove.)

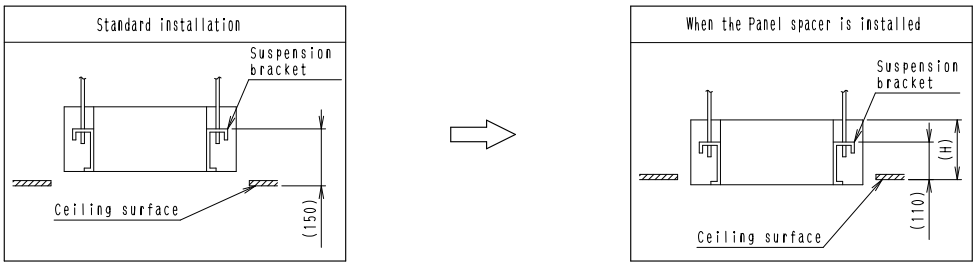
(2) Place the panel face down on the corrugated board or the vinyl sheet to protect the surface of the panel.



### ❷ Installation of the indoor unit

Adjust the height of the indoor unit.

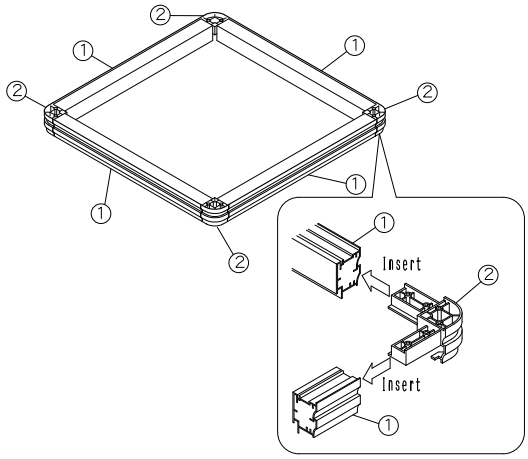
Be sure the piping will not contact with the ceiling joist etc. after adjusting the height.



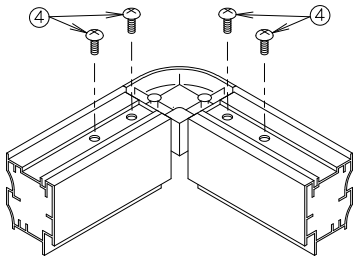

| Indoor unit | H |
|---|---|
| 25~80 | 216 |
| 100~140 | 258 |

## ❸ Assembly of panel spacer

(1) Assemble the panel spacer frame ① and the plastic corner joint ② temporarily.

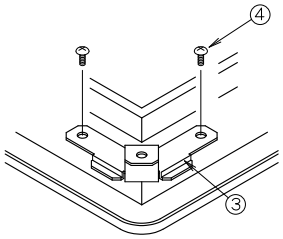



(2) Fix with the screws ④ from the top. (4 screws in each corner)

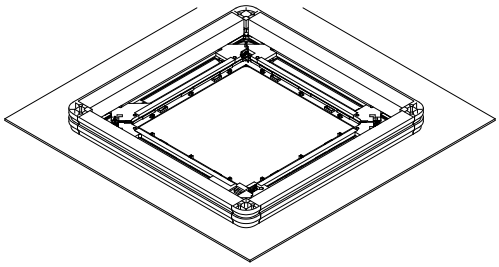


## ❹ Fixing to the Decoration panel

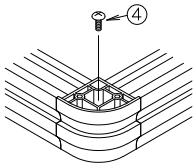
(1) Set the fixing metal ③ on each corner with screws ④.



(2) Place the panel spacer assembled in item ③Assembly of panel spacer of the above on the outer frame of the Decoration panel.

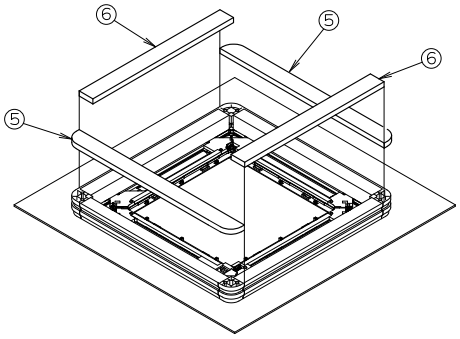


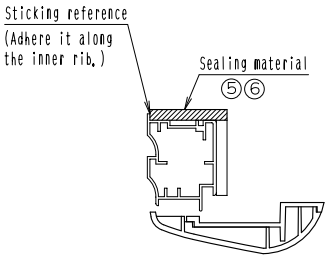
(3) Fix the panel spacer to the fixing metal ③ with screws ④ (4 portions).



## ❺ Adhesion of the sealing material

Adhere the sealing material ⑤ ⑥ on the upper face of the panel spacer in the order of ⑤ and ⑥.



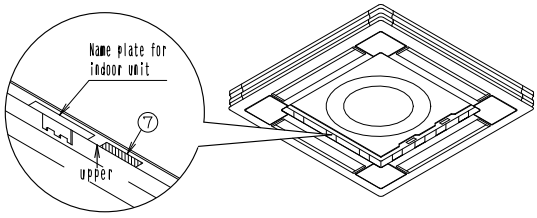



## ❻ Installation of the Decoration panel

(1) install the decoration panel to the indoor unit according to the installation manual of decoration panel.

| |
|---|
| The panel spacer is not firmly fixed to the decoration panel, so that never hold the panel spacer directly or lean the decoration panel extremely. |

(2) After installation of the Decoration panel, adhere the caution sticker ⑦ next to the name plate of the indoor unit as shown on the right.




1P089652

## KDDP55D160(K) – Fresh Air Intake Kit

**⚠Caution** Before starting the installation work, carefully read the following, safety precautions and observe them to ensure safety during work.

- Make sure to use the attached or spcified components to install the pducts, Otherwise, it may cause air leak or the product may fall.
- After installation, check whether there is no abnomality during the trial operation.

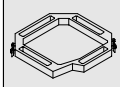
**REMARKS**

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner<Multi-flow type>.
- Before installation, make sure the indoor unit number.
- Refer to the installation manuals for the indoor unit and the decoration panel.

**Combination table**

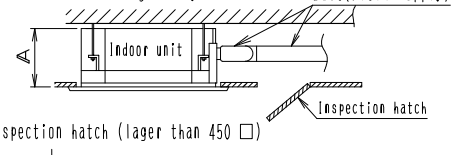
| Kit name | Indoor unit model that party crowded is possible | |
|---|---|---|
| KDDP55D160 KDDP55D160K | SPLIT | FHYCP50·60·71·100·125DVE FHYCP71·100·125·140DVL |
| | VRV | FXF25·32·40·50·63·80·100·125LVE FXF25·32·40·50·63·80·100·125LVEC |

**Components** Check if the following parts are included with your kit.
Shaded part ▭ is separately packed.

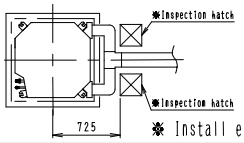
| Name | ①Suction Chamber | ②Connecting Chamber (Right) | ③Connecting Chamber (Left) | ④Screw | ⑤Closing Material | ⑥T Joint | ⑦Flexible Duct | ⑧Clamp | ⑨Installation Manual |
|---|---|---|---|---|---|---|---|---|---|
| Shape |  | | | M4×12 | | | | | |
| Q'ty KDDP55D160 | 1 PC. | 1 PC. | 1 PC. | 4 PCS. | 1 PC. | —— | —— | —— | 1 PC. |
| Q'ty KDDP55D160K | 1 PC. | 1 PC. | 1 PC. | 4 PCS. | —— | 1 PC. | 2 PCS. | 4 PCS. | 1 PC. |

### ❶ Selection of Location and Access Door

1. Referto the following table.




2. Inspection hatch (lager than 450 □)



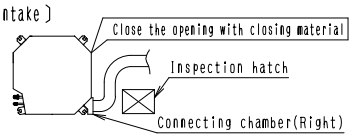

| Indoor unit | A |
|---|---|
| 25~80 | 306 |
| 100~140 | 348 |

※ Install either one of hatches

**In case of KDDP55D160**

- When the intake from both sides can not be obtained due to an obstacle, one side intake is acceptable. In this case, make sure to close the opening with the closing material⑤.
- In case of one side intake, the noise will be larger than intake from both sides.

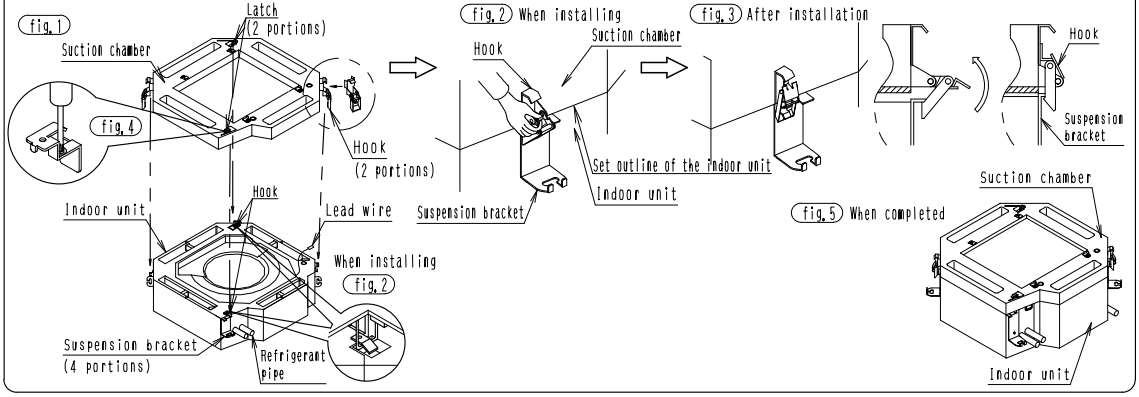
(Example of one side intake)




※When installing the wireless receiver kit on the indoor unit, the duct must be led from right side as shwn. In this case, use KDDP55D160.

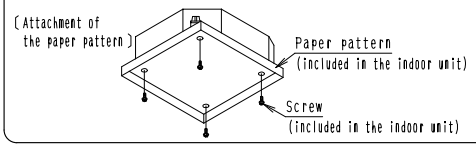
### ❷ Installation of the Suction chamber

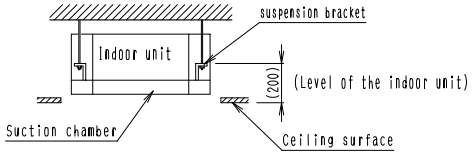
1. Remove the decoration panel. (This is not required for the new installtion)
   - Remove the decoration panel in the reverse step when the panel is installed. (Refer to the installation manual of the decoration panel for the detais.)
2. Temporarily install the suction chamber to the indoor unit by hanging the lutch on the opposite side of the suction chamber to the hook of the indoor unit body. (2 portions)
   Temporarily hang the remaining 2 hooks of the suction chamber to the hooks on the sides of the indoor unit. (fig. 1) ~ (fig. 3)
   (When the indoor unit is already installed, hang the hook to the suspennsion bracket temporarily and fix the hook.)
   ※Installation set outline of the indoor unit (fig. 2)
3. Tighten 2hexahead screws located beneath the lutches until the thickness of the sealing material of chamber reduces to 5~8mm. (fig. 4) (fig. 5)



## ❸ Installation of the Indoor Unit and the Suction Chamber

- Install the indoor unit and the suction chamber.
  Refer to the installation manual of the indoor unit.
  (For the height of the unit, refer to the drawing on the right.)
- Be complete installated refrigerant piping, and drain piping.
- Attach the paper pattern for installation to the indoor unit with screws to protect the indoor unit from dirt. [See below]
  (When the indoor unit is newly installed)
  (See below)
- In case of attaching the chamber after installed indoor unit.
  For the height of the unit, change the height shown on the right drawing.




## ❹ Installation of Connecting duct

1. Install the Connecting chamber(right & left)in accordance with the procedure shown in fig.5 .

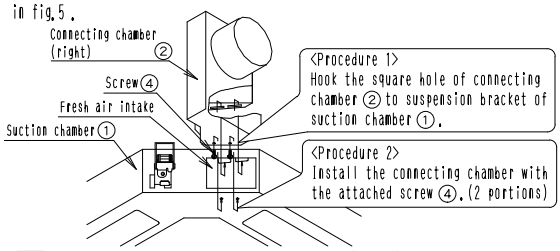
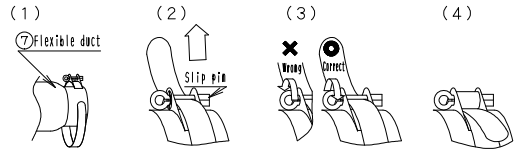



fig.5 Installation of the connecting chamber(right)
(Same as the left side)

<How to tighten the clamp>




(1)Wrap the clamp around the duct.
(2)Install the edge of clamp between the sit of pin. Tighten the clamp by hand.
(3)Make sure the tightening direction and tighten the clamp with standard tools (ex. Screwdriver or pliers) as shown.
(4)Completed.

Caution
Do not turn the slit pin reversely.
If turned reversely, ratchet part many break down.

In case of KDDP55D160K

2. Connect the T Joint and Connecting chamber. fig.6

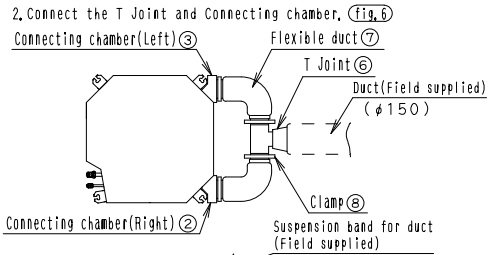



fig.6

Hang the T Joint with suspension band for duct to reduce the weight of the duct to the chamber.

[Installation of closing material in case of one side intake] (for KDDP55D160)

- Install the closing material in accordance with the following procedures. fig.7
  Closing material can be used either right or left side opening.

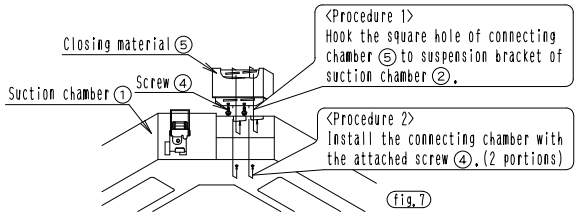
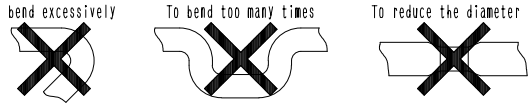



fig.7

## ❺ Duct connection 《Duct:diameter φ150》

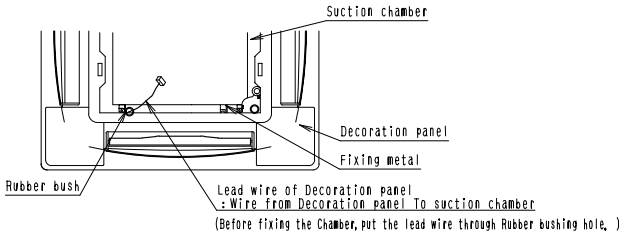
1) Attach the duct to the outside of the Branch duct chamber.
   - Wrap the duct tape(Field supplied)around the connection to prenent air leak.
   - Insulate the duct to prevent condensate.
2) Do not perform the following duct work.




Caution
- follow the local code or regulation to install the duct.
- In case that metal duct is penetrated through wooden wall, make sure the duct and the wall are electrically insulated.
- Install the outdoor unit duct inclined downwardly so that the rain will not get into the duct. (Inclination 1/100 to 1/50)
- Where it contact the outside air, make sure to install screen to avoid birds, small animals or insects getting inside the duct.
- Where it contact the outside air, make sure to install air filter to protect heat exchanger for indoor unit.

## ❻ Installation of Decoration panel

- Install the Decoration panel in accordance with the installation manual attached to the decoration panel.

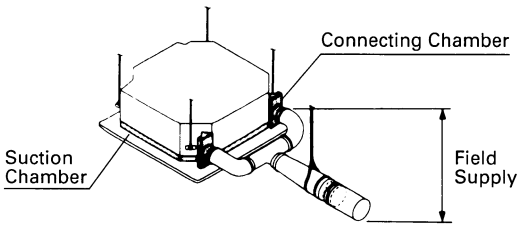



In case of the panel for Wireless remote controller

- Put the Connector for receiver lead wire through rubber bush and connect to the indoor PC board.
- Refer to the installation manual attached to the Wireless remote controller kit(optional)for the detail.

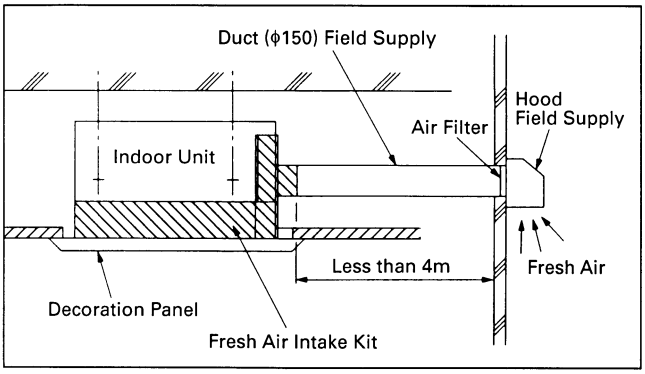
3K011144-1

**• KDDP55D160(Without T Joint, Duct Fan)**




**Note:**
1. As the principle, the duct fan is unnecessary for 4 meters or less. When needing enough fresh air taking-in, use Kit with Duct Fan of optional, which is shown in the following.
2. The other part of Fresh air intake kit (Duct, T Joint, Air Filter, Hood, etc) is field supplied.
3. In wireless remote controller use, Flexible Duct in the right can not connect.

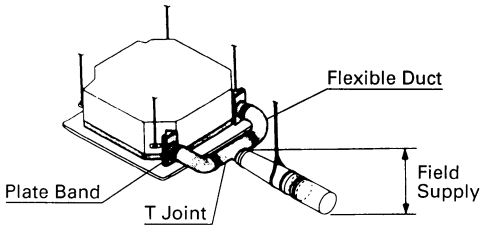
**• Example of Installation**




**• Specifications**

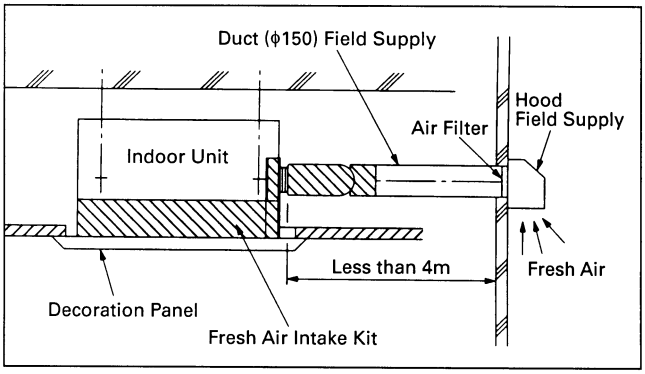
| Item \ Kit Name | KDDP55D160 |
|---|---|
| Method of Fresh Air Intake | Fresh Air Intake by The Indoor Unit Fan |
| Size of Connecting Duct | ϕ150 |
| Applicable Models | For Indoor Unit |

**• KDDP55D160K(Attached T Joint, Without Duct Fan)**




**Note:**
1. As the principle, the duct fan is unnecessary for 4 meters or less. When needing enough fresh air taking-in, use Kit with Duct Fan of optional, which is shown in the following.
2. The other part of Fresh air intake kit (Duct, T Joint, Air Filter, Hood, etc) is field supplied.
3. It isn't possible to do simultaneous use with wireless remote controller.

**• Example of Installation**




**• Specifications**

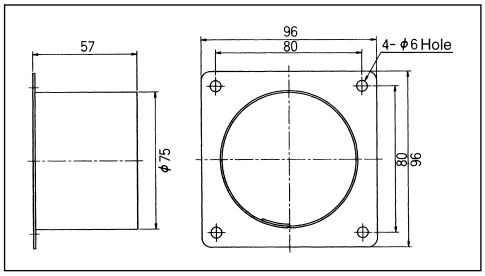
| Item \ Kit Name | KDDP55D160K |
|---|---|
| Method of Fresh Air Intake | Fresh Air Intake by The Indoor Unit Fan |
| Size of Connecting Duct | ϕ150 |
| Applicable Models | For Indoor Unit |

(B0418)

## KDDJ55X160 – Fresh Air Intake Kit

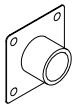
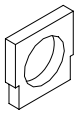
The fresh air is taken into the unit by the indoor unit fan or duct fan, which is field supplied. The location of fresh air intake port will be changeable by installing the duct fan.

### KDDJ55X160




Remarks:
1. This kit can be installed to the Ceiling mounted cassette type (Multi-flow).
2. When installing this kit, duct(Nominal dia. : φ75)is required on site.

Contents
Prior to installation, make sure you have the complete kit of parts.

| Name | ①Duct Flange | ② Screws | ③Insulation for Duct Flange | ④Insulation for Opening of Unit | ⑤ Installation Manual |
|---|---|---|---|---|---|
| Q'ty | 1 piece | 4 pieces | 1 piece | 1 piece | 1 piece |
| Shape |  | M4×12 |  | | |

Necessary tools
Philips head screw driver, nipper, cutter etc.

### ❶ Installation procedures of Duct flange

The method of installation varies with indoor unit type.
The unit type can be distinguished by the position of knockout hole.
1. Cut off the knockout hole on the side plate. (Fig. 1)

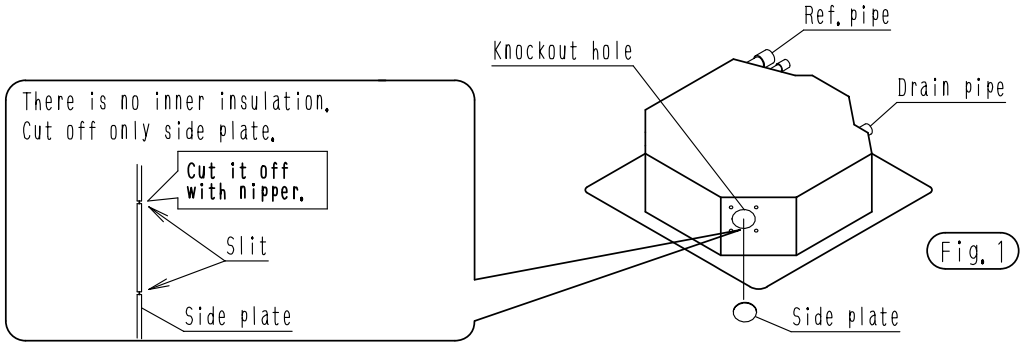



Fig. 1

2. Adhere the insulation④ for opening of unit to the opening. (Fig. 2)

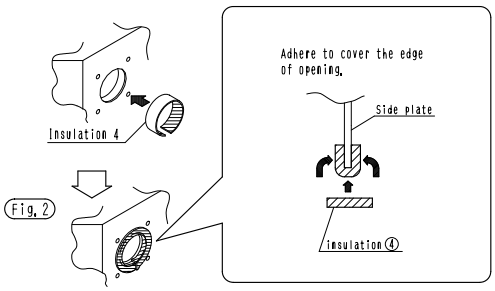



Fig. 2

3. Install the duct flange① with screws② (M4×12, 4 screws) to the opening and adhere the insulation③ (Fig. 3)

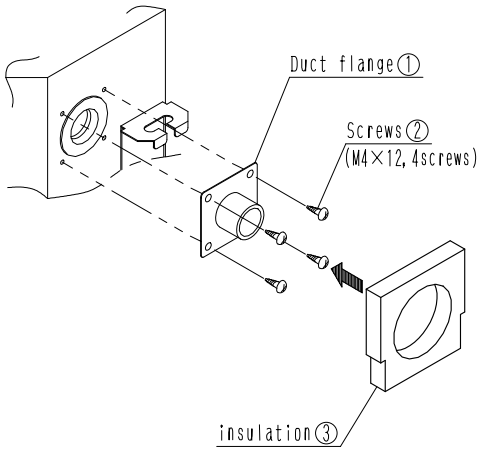



Fig. 3

## ② Installation procedures of Duct<Nominal diameter of duct: φ75>

1. Connect the duct to the duct flange. (Flange fits inside the duct.)(Fig. 4)
2. After connection, wrap vinyl tape (field supply) around the duct connection to prevent air leak.

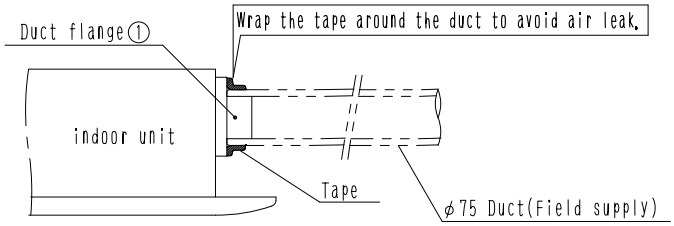



Fig. 4

Precaution

1. ALL ducts must be completely insulated.
2. Do not do the followings when installing duct.

2-1) To bend the duct excessively

WRONG

2-2) To bend the duct too many times

WRONG

2-3) To reduce the duct diameter

WRONG

3. In case that metal duct is penetrated through wooden walls, make sure the duct and the wall electrically insulated.
4. Install the outdoor unit duct inclined downwardly so that the rain may not get into the duct. (Inclination 1/100 to 1/50)
5. To avoid birds, small animals or insects getting inside the duct, make sure to install net where it contacts the outside air.

C : 2P066796-1B

## KAFP556D80 · 160 – High Efficiency Filter (Including Filter Chamber)
## KAFP557D80 · 160 – High Efficiency Filter (Including Filter Chamber)

**Combination table**

| High Efficiency Filter (Set) | High Efficiency Filter | Filter Chamber |
|---|---|---|
| KAFP556D80<br>KAFP557D80 | KAFJ552K80<br>KAFJ553K80 | KDDFP55D160 |
| KAFP556D160<br>KAFP557D160 | KAFJ552K160<br>KAFJ553K160 | |

## KAFJ552K80 · 160 – High Efficiency Filter (Replacement)
## KAFJ553K80 · 160 – High Efficiency Filter (Replacement)

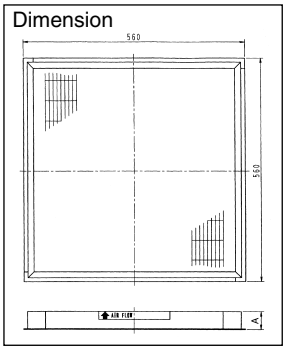
**Specifications**

| High Efficiency Filter (Replacement) | KAFJ552K80 | KAFJ552K160 | KAFJ553K80 | KAFJ553K160 |
|---|---|---|---|---|
| Filter Chamber | KDDFP55D160 | | | |
| Collecting Efficiency (%) | 65% (NBS Calorimetric method) | | 90% (NBS Calorimetric method) | |
| Initial Pressure Loss Pa | 34 | | 44 | |
| Final Pressure Loss Pa | 78 | | 98 | |
| Filter | Non-woven Fabric of Synthetic Fiber | | Non-woven Fabric of Synthetic Fiber | |
| Life (h) | 2,500 h (Dust Concentration 0.15 mg / $m^3$) | | 1,800 h (Dust Concentration 0.15 mg / $m^3$) | |
| Models to be Applied | 25~80 Model | 100, 125 Model | 25~80 Model | 100, 125 Model |

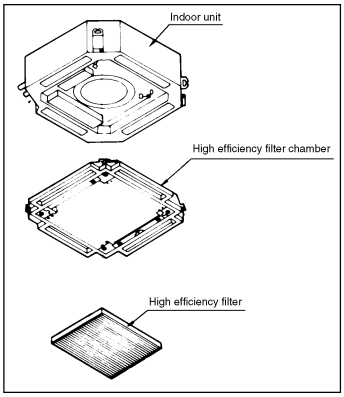
**Precaution at use**

1. The high efficiency filter, and the other filter can not be installed together.
2. The unit should be operated with 4-way discharge when the high efficiency filter is installed. It can not be applied to the high ceiling room.
3. Field setting by remote controller is necessary when the high efficiency filter is installed.

Dimension




| Model | A |
|---|---|
| KAFJ552K80, 553K80 | 25 |
| KAFJ552K160, 553K160 | 45 |



## KRP1D98 – Installation Box for Adaptor PCB

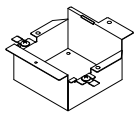
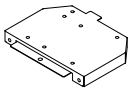
**Caution**

- This box is mountable on the ceiling mounted cassette type (multi-flow type) unit. After confirming the indoor unit model name, mount this box on the unit listed in the table shown right.
- When mounting the box, see also the indoor unit installation manual and the adapter PCB (Printed Circuit Board) mounting instruction.

| Kit name | Indoor unit model that party crowded is possible | |
|---|---|---|
| KRP1D98 | SPLIT | FHYCP50 • 60 • 71 • 100 • 125DVE<br>FHYCP71 • 100 • 125 • 140DVL |
| | VRV | FXF25 • 32 • 40 • 50 • 63 • 80 • 100 • 125LVE<br>FXF25 • 32 • 40 • 50 • 63 • 80 • 100 • 125LVEC |

**Accessories**

Check if the following accessories are included with your kit.

| Name | Adapter box | Adapter box cover | Clamp | Screw(1) | Screw(2) | Installation manual |
|---|---|---|---|---|---|---|
| Quantity | 1PC. | 1PC. | 8PCS. | 2PCS. | 2PCS. | 1PC. |
| Shape |  |  | | M4×12 | M4×8 | |

**Applicable PCBs**

| Adapter PCB name | Kit name | |
|---|---|---|
| | SPLIT | VRV |
| Adapter for wiring | KRP1B59 | |
| Wiring adapter for electrical appendices(1) | ——— | KRP2A62 |
| Wiring adapter for electrical appendices(2) | KRP4A53 | |

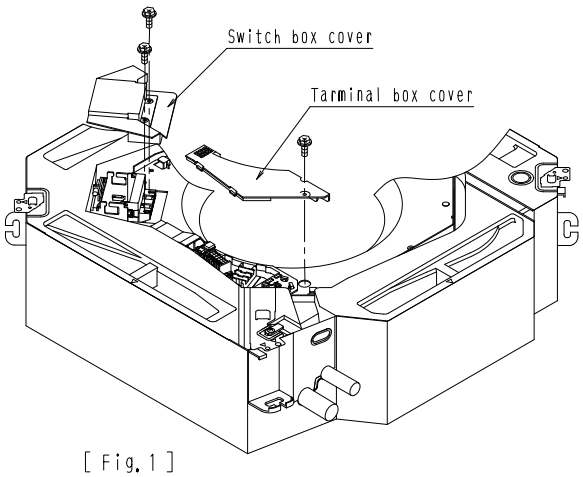
## ❶ Mounting the adapter box

《Preparation before wiring》

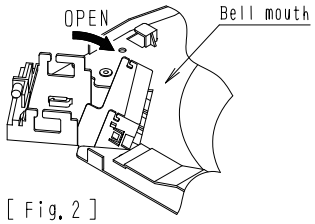
①Remove the switch box cover and the terminal cover. (Fig. 1)
②Open the switch box until it almost touches the bell mouth. (Fig. 2)

《Mounting the adapter box》

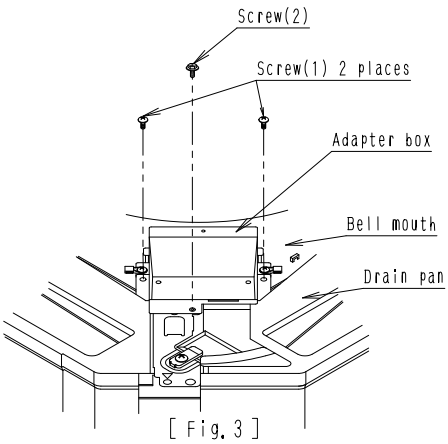
①Fix the box with the attached fixing screws (1) at two places and the fixing screw (2) at one place. (Fig. 3)




[ Fig. 1 ]




[ Fig. 2 ]




[ Fig. 3 ]

1P086302-1/2

## ❷ Mounting the adapter PCB

《How to mount the adapter PCB》

①Connect the wiring to the adapter PCB.
(The work is easier if the wiring is connected to the PCB first.)
- See the instruction attached to the adapter PCB for where to connect the wiring.

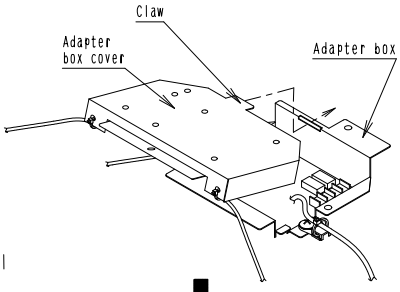
②Mount the adapter PCB on the adapter box and the adapter box cover.

| Adapter PCB | Place where to mount |
|---|---|
| Adapter for wiring | The PCB to be mounted on the adapter box cover. (Fig. 1) |
| Wiring adapter for electrical appendices(1)(2) | The PCB to be mounted on the adapter box. (Fig. 2) |

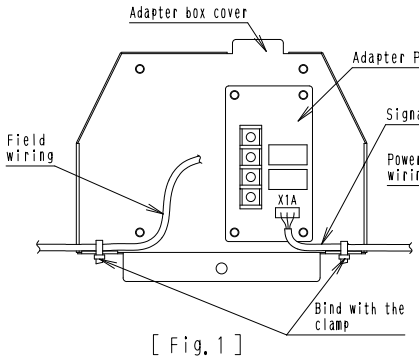
- For the mounting position of the adapter PCB, see the instruction attached to the adapter PCB.

③Bind the wiring from the adapter PCB (signal wires, power supply wires) with the attached clamp. (Fig. 1) (Fig. 2)

④After putting the claw of the cover into the hole of the box, fix them with the attached screw (2). (Fig. 3)
- Take precautions to prevent the wires from getting caught.

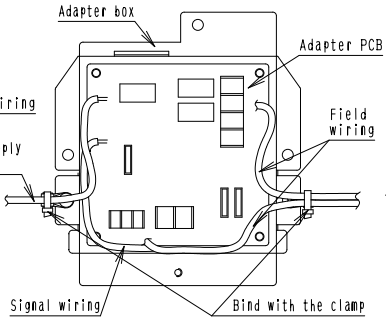



〈Adapter for wiring〉

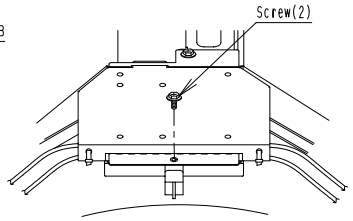



[ Fig. 1 ]

〈Wiring adapter for electrical appendices(1)(2)〉




[ Fig. 2 ]




[ Fig. 3 ]

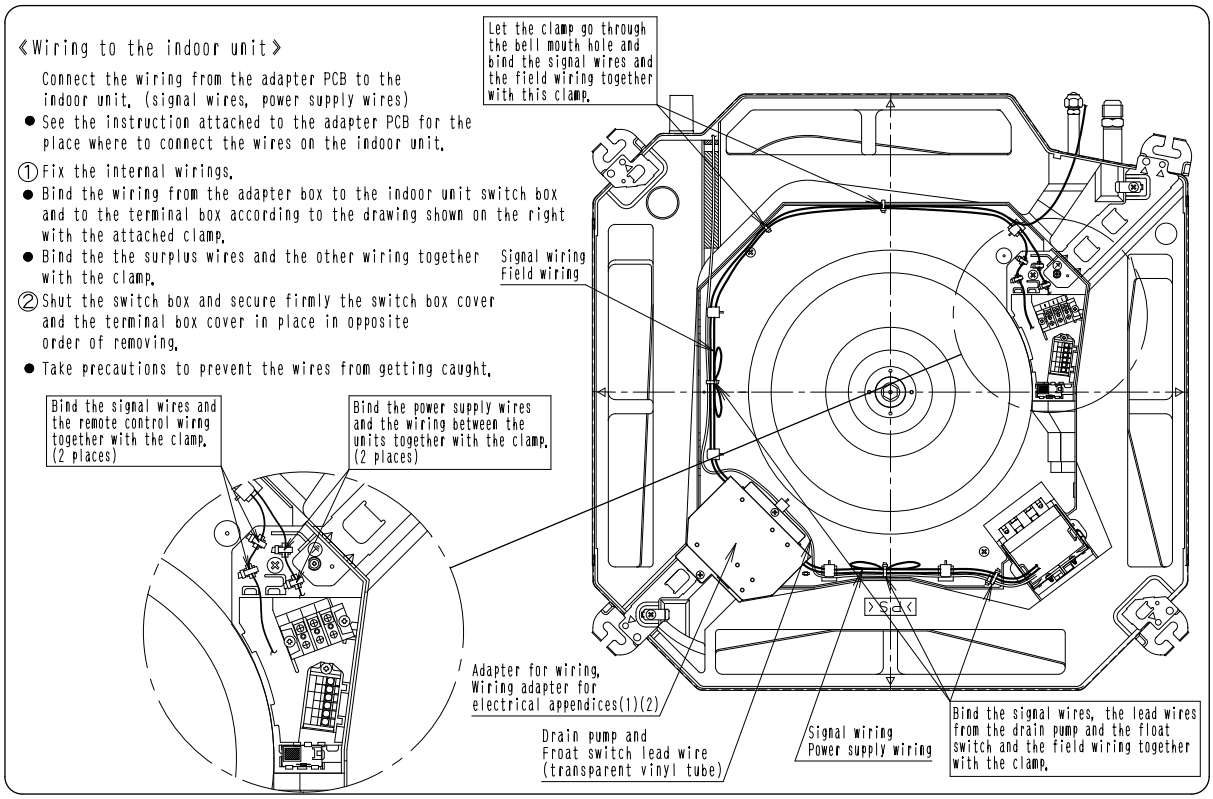
## ❸ How to handle the wiring

《Wiring to the indoor unit》

Connect the wiring from the adapter PCB to the indoor unit. (signal wires, power supply wires)
- See the instruction attached to the adapter PCB for the place where to connect the wires on the indoor unit.

①Fix the internal wirings.
- Bind the wiring from the adapter box to the indoor unit switch box and to the terminal box according to the drawing shown on the right with the attached clamp.
- Bind the the surplus wires and the other wiring together with the clamp.

②Shut the switch box and secure firmly the switch box cover and the terminal box cover in place in opposite order of removing.
- Take precautions to prevent the wires from getting caught.




1P086302-2/2

3

## KDDFP55D160 – High Efficiency Filter Chamber

⚠Caution Before starting the installation work, carefully read the following, safety precautions and observe them to ensure safety during work.

- Make sure to use the attached or spcified components to install the products. Otherwise, it may cause air leak or the product may fall.
- After installation, check whether there is no abnomality during the trial operation.

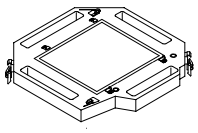
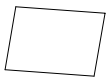
REMARKS

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner<Multi-flow type>.
- Before installation, make sure the indoor unit model name.
- Refer to the installation manuals for the indoor unit and the decoration panel.

Notes (In case of useing the Ultra-long life filter)

Ultra-long life filter can be reused by cleaning. After installtion, instruct filter cleaning periad and removeing to customers.

Components Check if following parts are included with your kit.

| Name | Filter chamber | Installation manual |
|---|---|---|
| Shape |  |  |
| Quantity | 1 PC. | 1 PC. |

Combination table

| Kit name | High Effciency filter | Ultra-long life filter | Indoor unit model that party crowed is possible | |
|---|---|---|---|---|
| KDDFP 55D160 | KAFJ552K80 or KAFJ553K80 | KAFJ55K160H | SPLIT | FHYCP50・60・71DVE<br>FHYCP71DVL |
| | | | VRV | FXF25・32・40・50・63・80LVE<br>FXF25・32・40・50・63・80LVEC |
| | KAFJ552K160 or KAFJ553K160 | | SPLIT | FHYCP100・125DVE<br>FHYCP100・125・140DVL |
| | | | VRV | FXF100・125LVE<br>FXF100・125LVEC |

### ❶ Preparation of indoor unit

- When you instell the Ultra-long life filter, the setting by the remote controller is required. Set the remote controller at the field setting mode and change the setting position number as shown on the table. Refer to the operation manual of remote controller for the field setting.

| Filter name | | Mode No. | Setting switch No. | Setting position No. | | Contents of setting |
|---|---|---|---|---|---|---|
| High Effciency filter | Only 80 | 13 or 23 | 0 | 02 | | ——— |
| | Both 80 and 160 | | 1 | 02 | | |
| Ultra-long life filter | | 10 or 20 | 0 | Less dusty place | 01 | Filter cleaning period :Every 10,000 hrs |
| | | | | Dusty place | 02 | Filter cleaning period :Every 5,000 hrs |
| | | | 1 | 02 | | Filter sign display:Ultra-long life filter |

### ❷ Installation of Filter chamber

1. Remove the decoration panel. (This is not required for the new installtion)
   - Remove the decoration panel in the reverse step when the panel is installed. (Refer to the installation manual of the decoration panel for the details.)
2. Temporarily install the filter chamber to the indoor unit by hanging the lutch on the opposite side of the filter chamber to the hook of the indoor unit body. (2 portions) Temporarily hang the remaining 2 hooks of the filter chamber to the hooks on the sides of the indoor unit. (fig.1) ~ (fig.3)
   (When the indoor unit is already installed, hang the hook to the suspennsion bracket temporarily and fix the hook.)
   ※Installation set outline of the indoor unit (fig.2)
3. Tighten 2hexahead screws located beneath the lutches until the thickness of the sealing material (fig.4) (fig.5) of chamber reduces to 5~8mm.

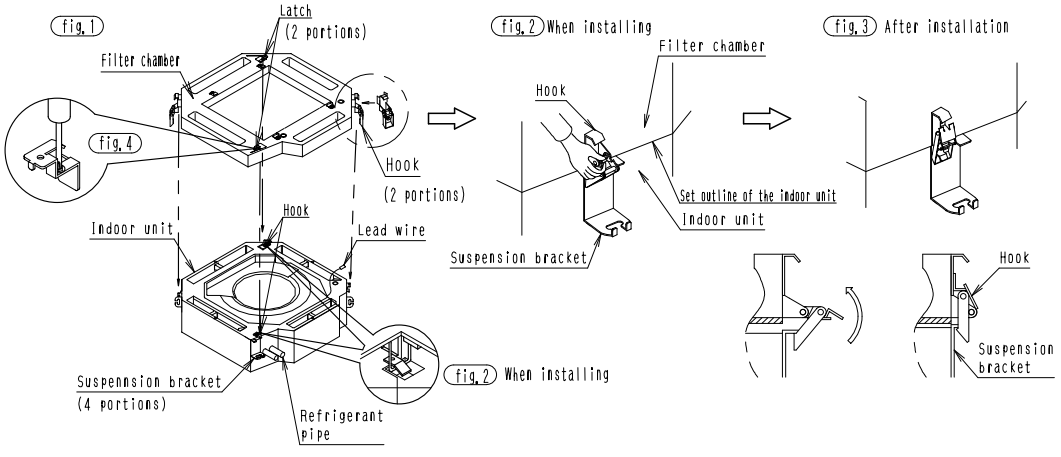
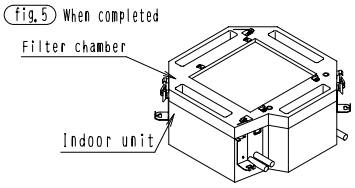
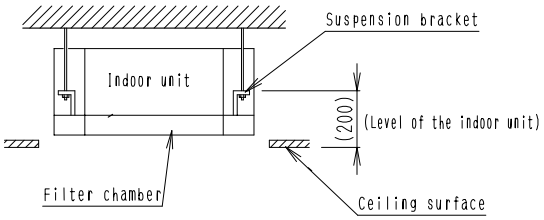


fig. 5 When completed

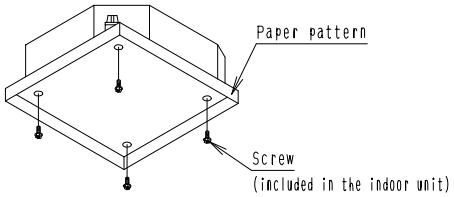



## ❸ Installation of the indoor unit and the Filter chamber

- Install the indoor unit and the filter chamber.
  Refer to the installation manual of the indoor unit.
  (For the height of the unit, refer to the drawing on the right.)
- Be complete installated refrigerant piping, and drain piping.
- Attach the paper pattern for installation to the indoor unit with screws to protect the indoor unit from dirt. [See below]
  (When the indoor unit is newly installed)
  (See below)
- In case of attaching the chamber after installed indoor unit.
  For the height of the unit, change the height shown on the right drawing.

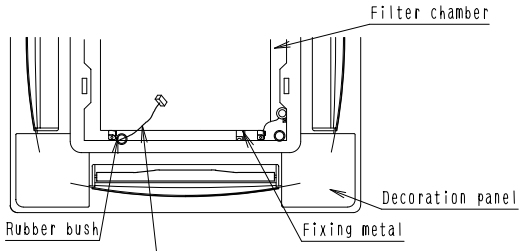



〔Attachment of the paper pattern〕




## ❹ Installation of Decoration panel and the Filter

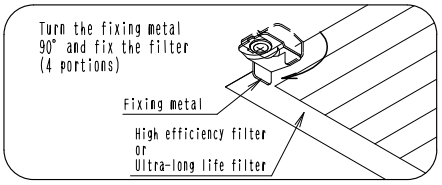
- Install the Decoration panel in accordance with the installation manual attached to the decoration panel.




Lead wire of Decoration panel
:Wire from Decoration panel to Filter chamber
(Before fixing the Chamber, put the lead wire through Rubber bushing hole.)

- Installation of Filter
  After connecting, install the Filter chamber. (fig. 6)

fig. 6




In case of the panel for Wireless remote controller

- Put the Connector for receiver lead wire through rubber bush and connect to the indoor PC board.
- Refer to the installation manual attached to the Wireless remote controller kit(optional)for the detail.

3K011148-1

## KAFJ551C160 – Long-Life Filter for Decoration Panel (Replacement)

- **Specifications**

| | |
|---|---|
| Life | 2,500 h (Dust concentration 0.15 mg / m³) |
| Average collecting efficiency | 65 % (Gravimetric method) |
| Filter material | Mildew proof resin net |
| Quantity per unit | 1 |
| Applicable models | 25~125 model |

(B0479)

## KAFP55D160, – Ultra Long-Life Filter

⚠Caution Before starting the installation work, carefully read the following, safety precautions and observe them to ensure safety during work.

- Make sure to use the attached or specified components to install the products. Otherwise, it may cause air leak or the product may fall.
- After installation, check whether there is no abnormality during the trial operation.

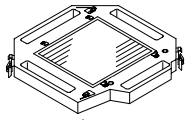
REMARKS

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner<Multi-flow type>.
- Before installation, make sure the indoor unit model name.
- Refer to the installation manuals for the indoor unit and the decoration panel.

Notes

Ultra-long life filter can be reused by cleaning.
After installtion, instruct filter cleaning periad and removeing to customers.

Components Check if following parts are included with your kit.

| Name | Ultra-long Life Filter Unit | Installation manual |
|---|---|---|
| Shape |  | |
| Quantity | 1 PC. | 1 PC. |

Combination table

| Kit name | Indoor unit model that party crowded is possible | |
|---|---|---|
| KAFP55D160 | SPLIT | FHYCP50·60·71·100·125DVE<br>FHYCP71·100·125·140DVL |
| | VRV | FXF25·32·40·50·63·80·100·125LVE<br>FXF25·32·40·50·63·80·100·125LVEC |

### ❶ Preparation of indoor unit

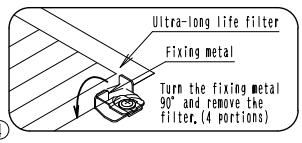
- When you instell the Ultra-long life filter, the setting by the remote controller is required. Set the remote controller at the field setting mode and change the setting position number as shown on the table. Refer to the operation manual of remote controller for the field setting.

| Mode No. | Setting switch No. | Setting position No. | | Contents of setting |
|---|---|---|---|---|
| 10 or 20 | 0 | Less dusty place | 01 | Filter cleaning period :Every 10,000 hrs |
| | | Dusty place | 02 | Filter cleaning period :Every 5,000 hrs |
| | 1 | 02 | | Filter sign display:Ultra-long life filter |

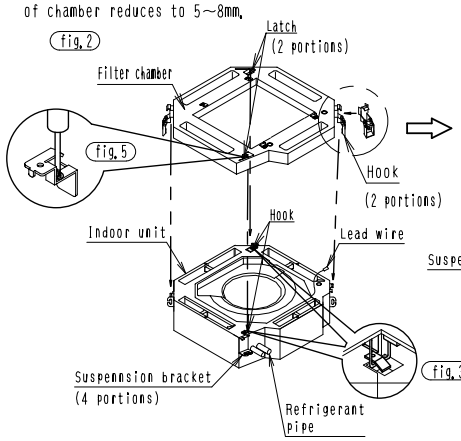
### ❷ Installation of Ultra-long life filter Unit

1. Remove the decoration panel. (This is not required for the new installtion)
   - Remove the decoration panel in the reverse step when the panel is installed. (Refer to the installation manual of the decoration panel for the details.)
2. REmove the Ultra-long life filter. (fig. 1)
3. Temporarily install the filter chamber to the indoor unit by hanging the lutch on the opposite side of the filter chamber to the hook of the indoor unit body. (2 portions)
   Temporarily hang the remaining 2 hooks of the filter chamber to the hooks on the sides of the indoor unit. (fig. 2) ~ (fig. 4)
   (When the indoor unit is already installed, hang the hook to the suspennsion bracket temporarily and fix the hook.)
   ※Installation set outline of the indoor unit (fig. 3)
4. Tighten 2hexahead screws located beneath the lutches until the thickness of the sealing material (fig. 5) (fig. 6) of chamber reduces to 5~8mm.

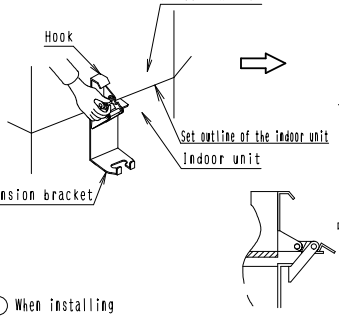
(fig. 1)



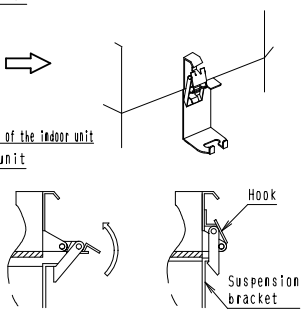

(fig. 2)




(fig. 3) When installing

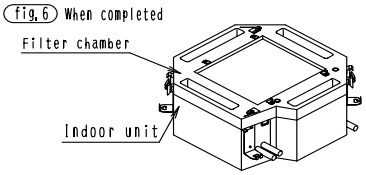



(fig. 4) After installation



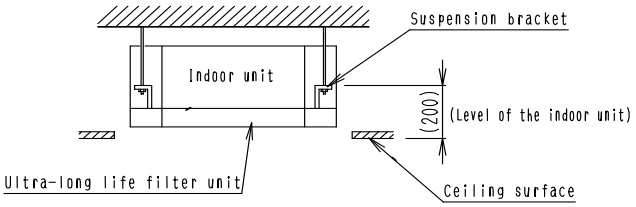

3K011147-1

fig. 6 When completed

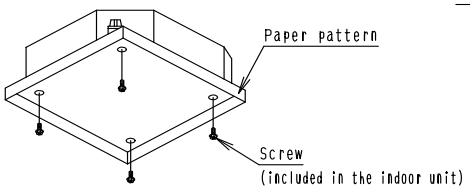



## ③ Installation of the indoor unit and the Ultra-long life filter unit

- Install the indoor unit and the Ultra-long life filter unit.
  Refer to the installation manual of the indoor unit.
  (For the height of the unit, refer to the drawing on the right.)
- Be complete installated refrigerant piping, and drain piping.
- Attach the paper pattern for installation to the indoor unit with screws to protect the indoor unit from dirt. [See below]
  (When the indoor unit is newly installed)
  (See below)
- In case of attaching the chamber after installed indoor unit.
  For the height of the unit, change the height shown on the right drawing.

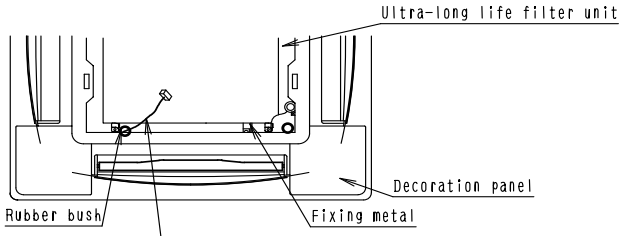



〔Attachment of the paper pattern〕




## ④ Installation of the Decoration panel and the Ultra-long life filter

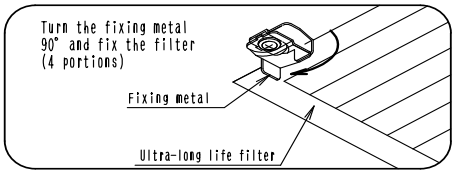
- Install the Decoration panel in accordance with the installation manual attached to the decoration panel.




(Before fixing the Chamber, put the lead wire through Rubber bushing hole.)

- Installation of the Ultra-long life filter
  After connecting, install the Filter chamber. (fig. 7)

fig. 7




**In case of the panel for Wireless remote controller**

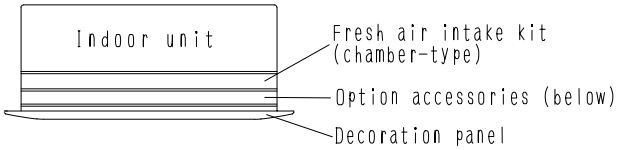
- Put the Connector for receiver lead wire through rubber bush and connect to the indoor PC board.
- Refer to the installation manual attached to the Wireless remote controller kit(optional)for the detail.

3K011147-1

## KKSJ55K160 – Chamber Connection Kit

Combining with option accessories (chamber-type)

- This chamber connection kit is for use with the multi-flow set. Refer to the catalog, etc. for details on the separately sold items (chamber-type) to be connected.
- Refer to the table at right for combinations of this kit and other option accessories(chamber-type). Also, be sure to install the fresh air intake (chamber-type) kit above.




| | | Above |
|---|---|---|
| | Option accessories (chamber-type) | Fresh air intake kit |
| below | Air purification unit | ○ |
| | High Effciency filter unit | ○ |
| | Ultra-long life filter unit | ○ |
| | Fresh air intake kit | |

Combinations not listed in this table should not be attempted as they will cause malfunctions.

Contents of parts

Check the following parts

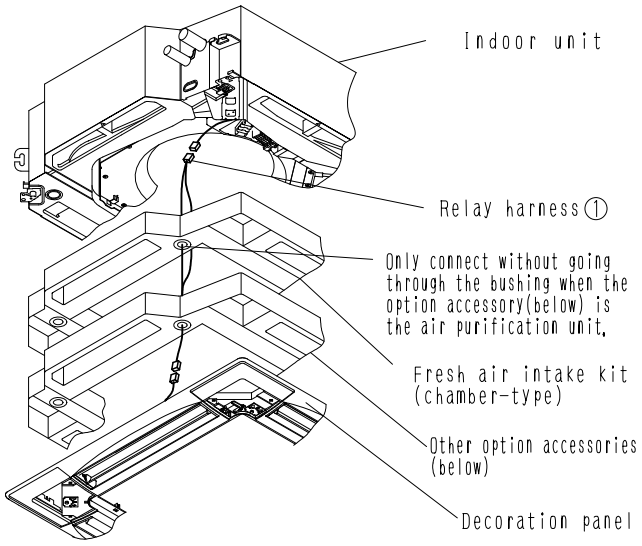
| Name | Relay harness | Clamping material |
|---|---|---|
| Shape | ① | ② |
| Quantity | 1 PC. | 2 PCS. |

**Installation of the Chamber connection kit.**

Refer to the installation (attachment) manuals included with the indoor unit, the option accessories (chamber-type), and Decoration panel for details on installation (attachment).

Caution

Extend the Decoration panel 's swing motor lead wire using the included relay harness ① and connect it to the indoor unit. When doing this, use the included clamping material ② to tie the lead wire so it does not droop.




For FHYCP～DVE, ～DVL
FXF～LVE, ～LVEC

3P089651

## KDP55D80 · KDP55D160 – Branch Duct Chamber

REMARKS

- This kit can be installed to the Ceiling Mounted Cassette Type Air Conditioner<Multi-flow type>.
- Before installation, make sure the indoor unit model name.
- Refer to the installation manuals for the indoor unit and the decoration panel.

Combination table

| Kit name | Indoor unit model that party crowed is possible | |
|---|---|---|
| KDP55D80 | SPLIT | FHYCP50 • 60 • 71DVE<br>FHYCP71DVL |
| | VRV | FXF25 • 32 • 40 • 50 • 63 • 80LVE<br>FXF25 • 32 • 40 • 50 • 63 • 80LVEC |
| KDP55D160 | SPLIT | FHYCP100 • 125DVE<br>FHYCP100 • 125 • 140DVL |
| | VRV | FXF100 • 125LVE<br>FXF100 • 125LVEC |

Contents of kit Check if the following parts are included with this kit.

| NAME | | Branch Duct Chamber | Screw | Installation Manual | Sealing Material | Tape for fixing the Sealing Material |
|---|---|---|---|---|---|---|
| Shape • Number | | | M4x16 | | | |
| Q'ty | 80 | 1 PC. | 10 PCS. | 1 PC. | 2 PCS. | 2 PCS. |
| | 160 | | | | | |

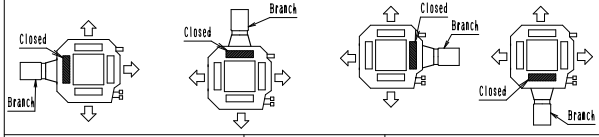
| NAME | | Indoor unit Insulation material | | | | Indoor unit opening seal material | | | Moisture Absorber for Swing flap | Spacer | Spacer installation screw |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Shape • Number | | ① | ② | ③ | ④ | ⑤ (Small) | ⑥A (Large) | ⑥B (Large) | ⑦ There are 5 types (colors) to match the panel color | ⑧ | ⑨ (M3x10) |
| Q'ty | 80 | 1 PC. | 1 PC. | 1 PC. | 1 PC. | 2 PCS. | 2 PCS. | — | 3 PCS. (5types) | 1 PC. | 1 PC. |
| | 160 | | | | | | 1 PC. | 1 PC. | | | |

### ❶ Pre-installation preparations

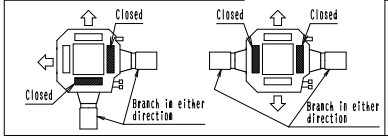
This branch duct can be used for 4 directions independently or 2 directions at once.

- You may choose the following outlet directions for this branch duct chamber. Select the outlet direction that best fits the shape of the room or the installation location. (Outlet directions other than the below cannot be selected)
- Select the duct length and outlet vent according to the external static sound pressure and fan strength characteristics(refer to the technical guide).

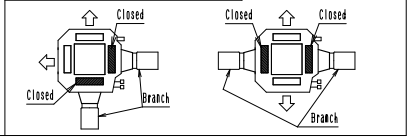
1-direction branch, indoor unit 3-way air discharge




1-direction branch, indoor unit 2-way air discharge




2-direction branch, indoor unit 2-way air discharge




Caution

- Be sure to completely seal off the air outlet on the indoor unit to which the branch duct chamber is attached. If the seal is imperfect, this may cause water splattering and condensation.
  (REfer to ❹ Installation of the sealing material to the indoor unit)
- When attaching the Branch Duct Chamber, be sure to perform the setting for indoor unit.
  (Refer to ❺ Setting for indoor unit)

### ❷ Installation of the Branch Duct Chamber

When installing the indoor unit after attaching the Branch Duct Chamber (for a new installation), avoid applying undue pressure on the Branch Duct Chamber. (This may damage it.)

(1) Select the position to attach the Branch Duct Chamber. (fig. 1)

(2) Attach the Branch duct chamber to the indoor unit following the steps below. (the fig. shows the ① side.)

1) Cut off the indoor unit side panel to which the Branch duct chamber will be attached along the slit. Next, cut off the interior insulating material along the groove. (Cut off the slit part using nippers, and the groove part using cutters.) (fig. 2)

2) Attach the sealing material so that it hides the gap between the side panel and interior insulating material. (fig. 3)

- First attach the indoor unit opening seal material (small) ⑤ to right and left of the opening, then the indoor unit opening seal material (large) ⑥ above and below. At this time, fold the indoor unit opening seal material in so that the gap between the side panel and interior insulating material is hidden.

3) Attach the Branch duct chamber. (fig. 4)

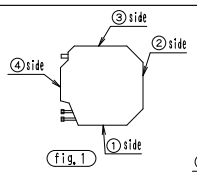



fig. 1

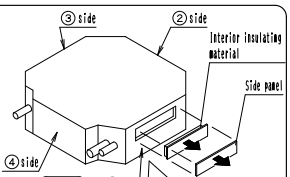
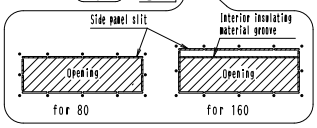



fig. 2



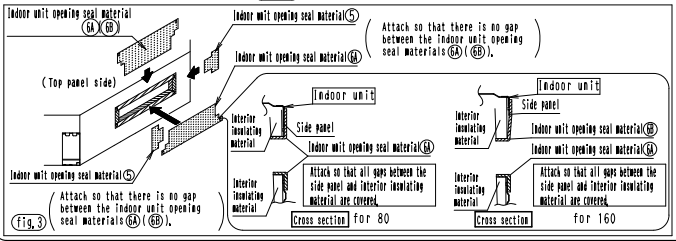




fig. 3

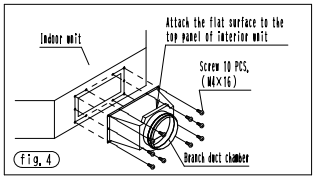
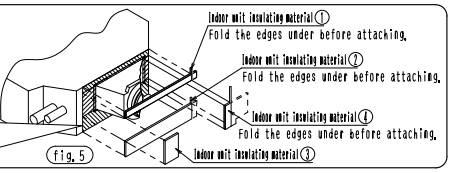



fig. 4

(3) Attach the Indoor unit insulating material to the indoor unit. (The fig. shows the ① side.) fig. 5

Attach aligning the left edges of indoor unit insulating material ① ② ③.

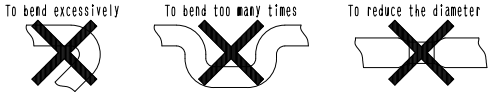
Besure to attach the indoor unit insulating material from above the Branch duct chamber flange (metal plate). This may cause condensation.

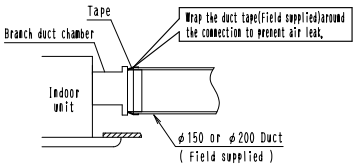



## ❸ Duct connection 《Duct: KDP55D80 ···diameter φ150 KDP55D160···diameter φ200》

1) Attach the duct to the outside of the Branch duct chamber. fig. 6
- Wrap the duct tape (Field supplied) around the connection to prevent air leak.
- Insulate the duct to prevent condensate.

2) Do not perform the following duct work.

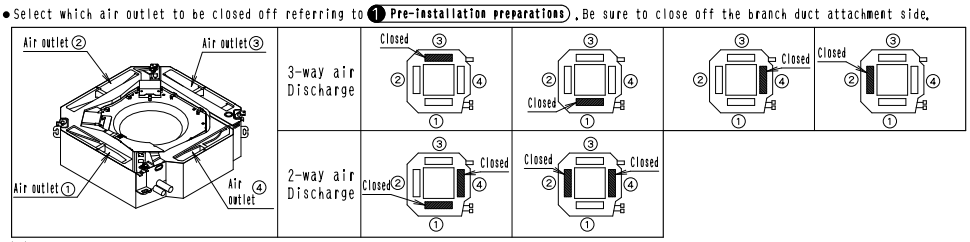



Caution
- follow the local code or regulation to install the duct.
- In case that metal duct is penetrated through wooden wall, make sure the duct and the wall are electrically insulated.

## ❹ Installation of the sealing material to the indoor unit 《The sealing material included in this kit is enough for two air outlets.》

- Select which air outlet to be closed off referring to ❶ Pre-installation preparations. Be sure to close off the branch duct attachment side.

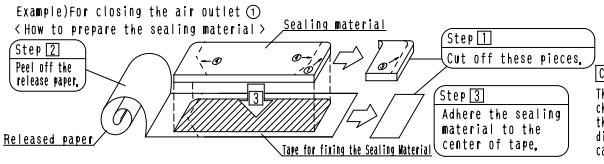



(1) Prepare the sealing material and the tape for fixing the sealing material according to the air outlet No. To be closed.
- Cut off the sealing material and the tape along the perforated lines (marked – – –).
- Adhere the sealing material to tape. (Make sure that the sealing material is placed at the center of the tape.)

(2) Adhere the sealing material prepared according to the procedure (1) to the indoor unit air outlet.

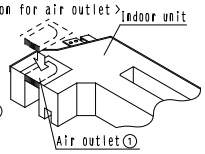
Example) For closing the air outlet ①

<How to prepare the sealing material>




Caution
The sealing material has directional characteristics. Make sure to adhere the sealing material fixing tape in the direction which the parts from ① to ④ can be seen as shown left.

<Installation for air outlet>




✱When closing the air outlet ②, it is not required to work on the sealing material.

## ❺ Setting for indoor unit

- When you install the Branch duct chamber, the setting by the remote controller is required.
  Set the remote controller at the field setting mode and change the setting position number as shown on the table.
  Refer to the operation manual of remote controller for the field setting.

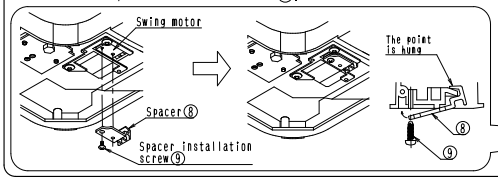
| Branch and air discharge patterns | Mode No. | Setting switch No. | Setting position No. |
|---|---|---|---|
| 1-direction branch, 3-way air Discharge | 13 or 23 | 1 | 02 |
| 1-direction branch, 2-way air Discharge or 2-direction branch, 2-way air Discharge | | | 03 |

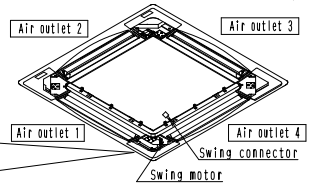
## ❻ Installation of Decoration panel

Please turn off the power supply for safety absolutely, before you do affixation of insulation and connected work of swing conector.

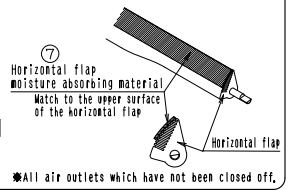
Refer to the installation manual for the decoration panel.
After installing the decoration panel, make sure there are no gaps between it and the indoor unit.

- Please install spacer ⑧ on the swing motor with the spacer installation screw ⑨.




- Attach the horizontal flap moisture absorbing material to the horizontal flaps on the Air outlet as per the figure at bottom. (Attach, matching the color of the panel.)




✱All air outlets which have not been closed off.

1P089650-A

# FXK-L
# Ceiling Mounted Cassette Corner Type



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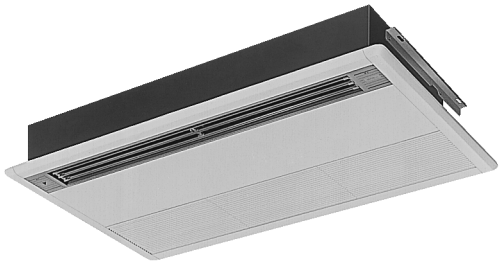
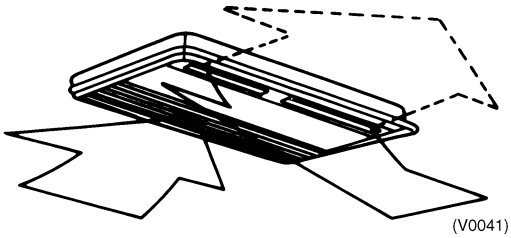
# 1. Features

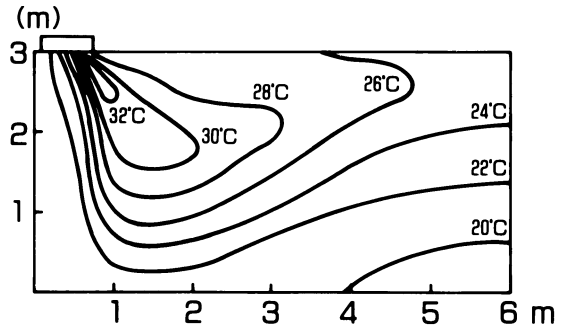
**215 mm-thick body features discreet, slim design and offers a wide variety of discharge methods and mounting such as in corners or in suspended ceilings, etc.**



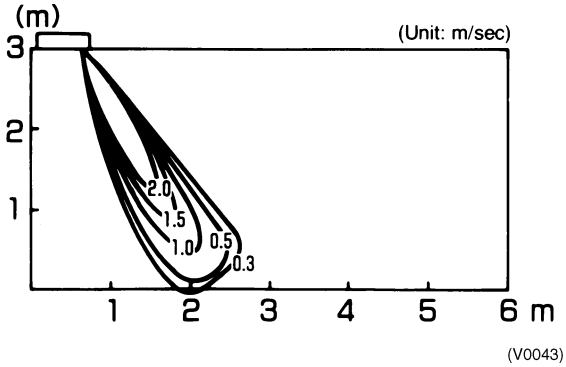
- Single-flow type offers effective air discharge from corners of from a suspended ceiling.



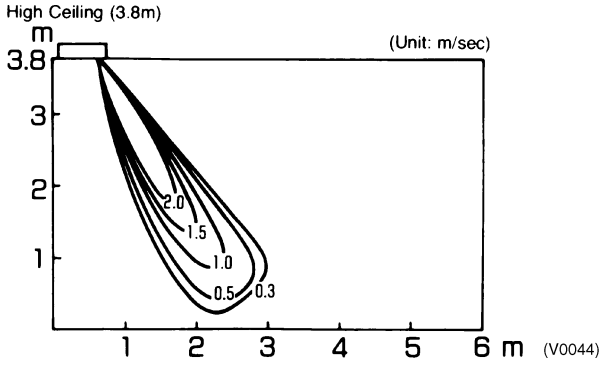

- Thin, discreet design enables mounting when the ceiling pocket is as shallow as 22 cm
- Temperature Distribution (FXK63L: downward discharge angle 65° in heating.).



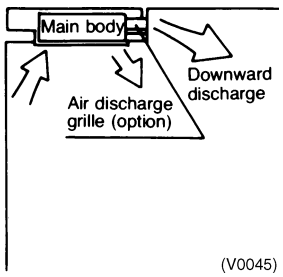

- Air velocity Distribution (FXK63L: downward discharge angle 65° in heating.)



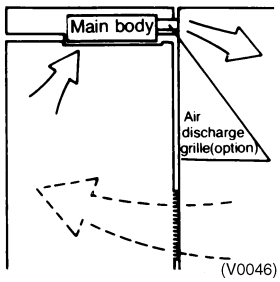

- Air volume switch built into the main body allows mounting in ceilings as high as 3.8 m. This unit is even able to handle spaces with a split level ceiling by accurately adjusting air volume in accordance with the ceiling height.




- The 63 class (equivalent to 2.5HP) features extremely quiet operation, only 42 dBA of sound level.
- In addition to downward discharge, front discharge (straight discharge, neither angled upward nor downward) can be provided by mounting an air discharge unit (optional) to the front of the body; can be mounted even with difficult elements such as suspended ceilings and sagging walls. A combination of front and downward discharge is also possible. (Auto-swing cannot be used with front discharge.)




* Set for front discharge using a suspended ceiling




Downward discharge is shut off and air is blown straight out (front discharge)

- Equipped with a programmed drying mechanism that dehumidifies while inhibiting changes in room temperature.
- Includes as standard equipment a long-life filter that is maintenance-free for approximately one year. (Treated to mold resistant.)
- Equipped with drain pump kit that makes possible draining in the upward direction up to 500 mm from the ceiling surface.
- Decoration panel is thin and unimposing, doesn't clash with interior design and provides an excellent finishing touch for the ceiling. (Available in white.)
- If the ceiling pocket is shallow and the main body will not fit, a thick panel that provides aesthetically appealing cover for the exposed portion (up to 20 mm) is available as an option.

# 2. Specifications

## Ceiling Mounted Cassette Corner Type

| Model | | | | FXK25LVE | FXK32LVE | FXK40LVE | FXK63LVE |
|---|---|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | | kcal/h | 2,500 | 3,150 | 4,000 | 6,300 |
| | | | Btu/h | 9,900 | 12,500 | 15,900 | 25,000 |
| | | | kW | 2.9 | 3.7 | 4.7 | 7.3 |
| ★2 Cooling Capacity (19.0°CWB) | | | kW | 2.8 | 3.6 | 4.5 | 7.1 |
| ★3 Heating Capacity | | | kcal/h | 2,800 | 3,400 | 4,300 | 6,900 |
| | | | Btu/h | 10,900 | 13,600 | 17,000 | 27,300 |
| | | | kW | 3.2 | 4.0 | 5.0 | 8.0 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | | mm | 215×1,110×710 | 215×1,110×710 | 215×1,110×710 | 215×1,310×710 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | | mm | 2×11×1.75 | 2×11×1.75 | 2×11×1.75 | 3×11×1.75 |
| | Face Area | | m² | 0.180 | 0.180 | 0.180 | 0.226 |
| Fan | Model | | | 3D12H1AN1V1 | 3D12H1AN1V1 | 3D12H1AP1V1 | 4D12H1AJ1V1 |
| | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | | W | 15×1 | 15×1 | 20×1 | 45×1 |
| | Air Flow Rate (H/L) | 50Hz | m³/min | 11/9 | 11/9 | 13/10 | 18/15 |
| | | | cfm | 388/318 | 388/318 | 459/353 | 635/530 |
| | | 60Hz | m³/min | 11/8.5 | 11/8.5 | 13/10 | 18/13 |
| | | | cfm | 388/300 | 388/300 | 459/353 | 635/459 |
| | Drive | | | Direct Drive | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | | Polyethylene Foam | Polyethylene Foam | Polyethylene Foam | Polyethylene Foam |
| Piping Connections | Liquid Pipes | | mm | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | | mm | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) |
| | Drain Pipe | | mm | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) |
| Machine Weight | | | kg | 31 | 31 | 31 | 34 |
| ★5 Sound Level (H/L) (220V) | | | dBA | 38/33 | 38/33 | 40/34 | 42/37 |
| Safety Devices | | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Refrigerant Control | | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable Outdoor Units | | | | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series |
| Decoration Panels (Option) | Model | | | BYK45FJW1 | BYK45FJW1 | BYK45FJW1 | BYK71FJW1 |
| | Panel Color | | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) |
| | Dimensions: (H×W×D) | | mm | 70×1,240×800 | 70×1,240×800 | 70×1,240×800 | 70×1,440×800 |
| | Air Filter | | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| | Weight | | kg | 8.5 | 8.5 | 8.5 | 9.5 |
| Standard Accessories | | | | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers, Positioning Jig for Installation, Insulation for Hanger Bracket, Air Outlet Blocking Pad. |
| Drawing No. | | | | 3D037070 | | | |

### Notes:

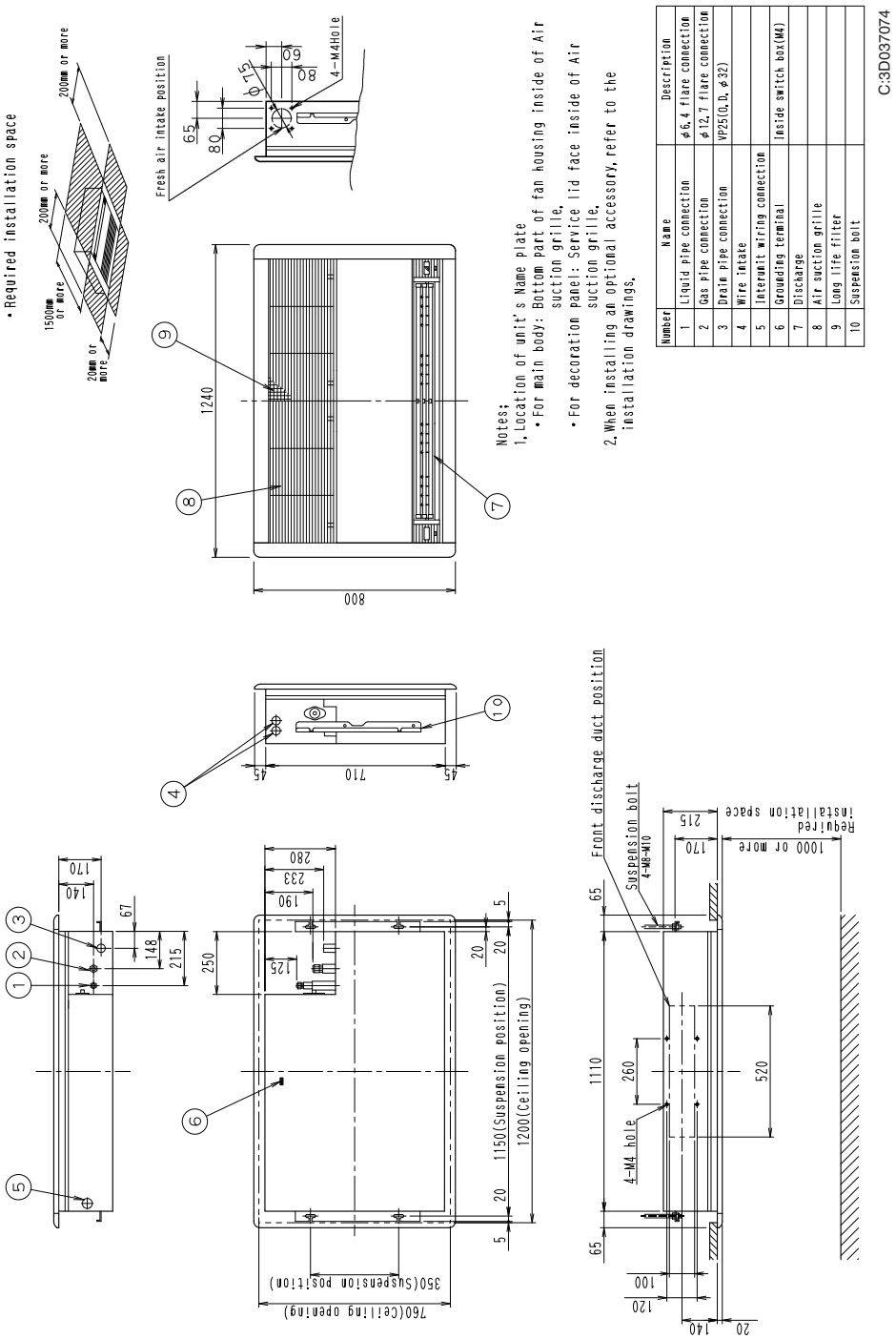
★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 153 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860 |
| Btu/h=kW×3414 |
| cfm=m³/min×35.3 |

# 3. Dimensions

**FXK25L + BYK45FJW1 (Decoration Panel)**
**FXK32L + BYK45FJW1 (Decoration Panel)**
**FXK40L + BYK45FJW1 (Decoration Panel)**

Unit (mm)




Notes;
1. Location of unit's Name plate
• For main body: Bottom part of fan housing inside of Air suction grille,
• For decoration panel: Service lid face inside of Air suction grille,
2. When installing an optional accessory, refer to the installation drawings.

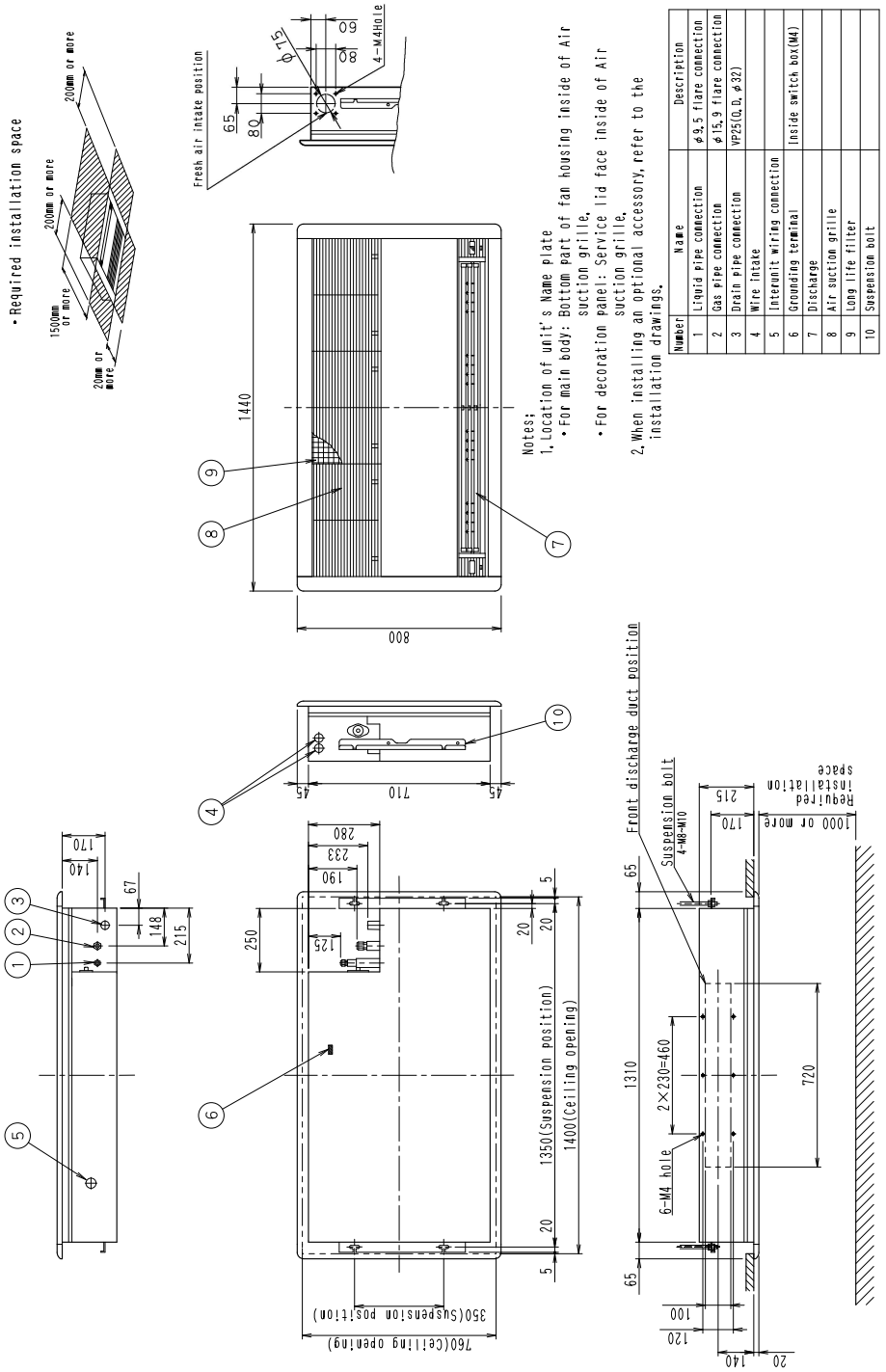
| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection | φ6,4 flare connection |
| 2 | Gas pipe connection | φ12,7 flare connection |
| 3 | Drain pipe connection | VP25(O.D. φ32) |
| 4 | Wire intake | |
| 5 | Interunit wiring connection | |
| 6 | Grounding terminal | inside switch box(M4) |
| 7 | Discharge | |
| 8 | Air suction grille | |
| 9 | Long life filter | |
| 10 | Suspension bolt | |

C:3D037074

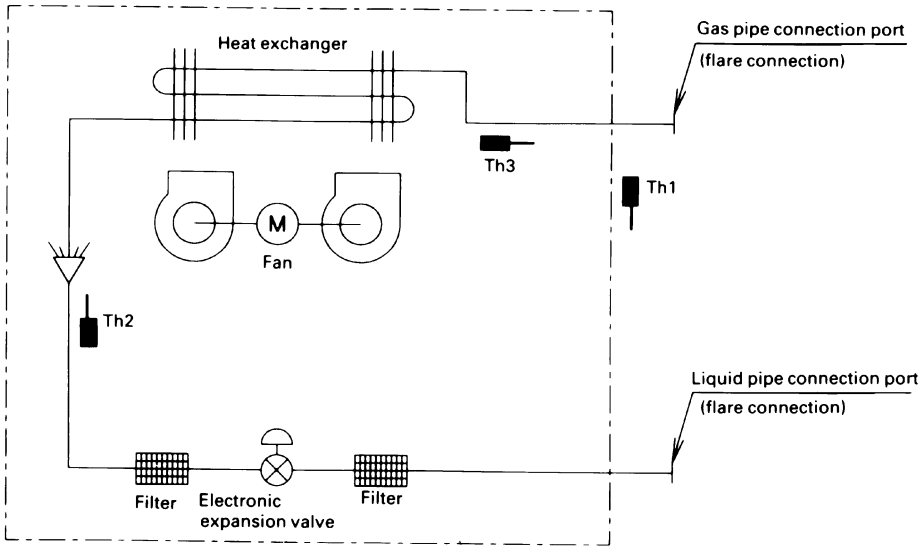
## FXK63L + BYK71FJW1 (Decoration Panel)

Unit (mm)

C:3D037075



# 4. Piping Diagrams




Th1: Thermister for suction air temp.
Th2: Thermister for liquid line temp.
Th3: Thermister for gas line temp.

4D034245

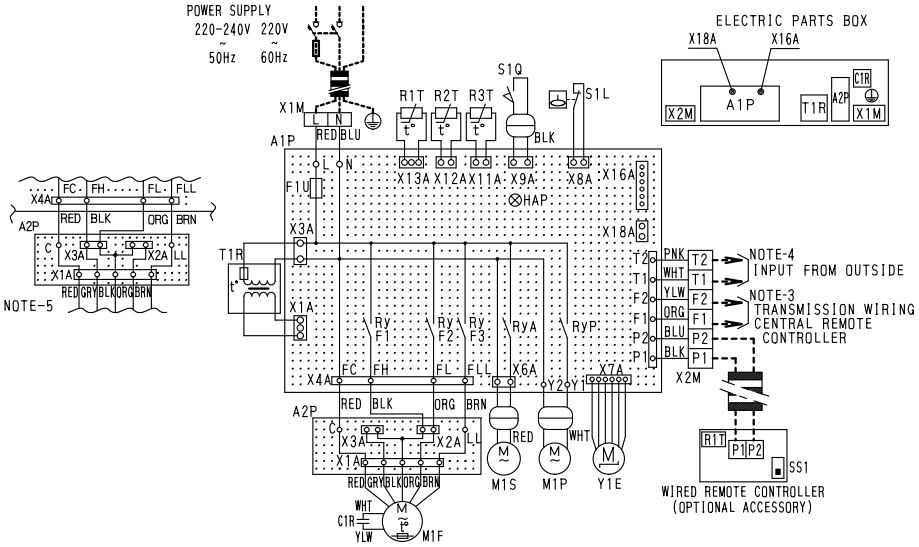
## ■ Refrigerant pipe connection port diameters

(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXK25L / 32L / 40L | ϕ12.7 | ϕ6.4 |
| FXK63L | ϕ15.9 | ϕ9.5 |

# 5. Wiring Diagrams

## FXK 25L / 32L / 40L / 63LVE




| | | | |
|---|---|---|---|
| A1P | PRINTED CIRCUIT BOARD | RyA | MAGNETIC RELAY(M1S) |
| A2P | TERMINAL BOARD | RyF1-3 | MAGNETIC RELAY(M1F) |
| C1R | CAPACITOR (M1F) | RyP | MAGNETIC RELAY(M1P) |
| F1T | THERMAL FUSE(105℃) (M1F EMBEDDED) | S1L | FLOAT SWITCH |
| | | S1Q | LIMIT SWITCH(SWING FLAP) |
| F1U | FUSE(250V,5A,Ⓑ) OR F5T 250V | T1R | TRANSFOMER(220-240V/22V) |
| | | X1M | TERMINAL STRIP(POWER) |
| | | X2M | TERMINAL STRIP(CONTROL) |
| HAP | LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN) | Y1E | ELECTRONIC EXPANSION VALVE |
| M1F | MOTOR (INDOOR FAN) | WIRED REMOTE CONTROLLER | |
| M1P | MOTOR (DRAIN PUMP) | R1T | THERMISTOR(AIR) |
| M1S | MOTOR (SWING FLAP) | SS1 | SELECTOR SWITCH (MAIN/SUB) |
| R1T | THERMISTOR(AIR) | CONNECTOR FOR OPTIONAL PARTS | |
| R2T・3T | THERMISTOR(COIL) | X16A | CONNECTOR(ADAPTOR FOR WIRING) |
| | | X18A | CONNECTOR(WIRING ADAPTOR FOR ELECTORICAL APPENDICES) |

NOTES) 1. ▭▭▭ : TERMINAL BLOCK, ▭▭ , ⊐ : CONNECTOR, —○— : TERMINAL
2. ---- : FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
5. IN CASE HIGH E,S,P, OPERATION, CHANGE OVER THE WIRING CONNECTION FROM X2A TO X3A.
6. SYMBOLS SHOW AS FOLLOWS.(PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN GRY:GRAY)
7. **USE COPPER CONDUCTORS ONLY.**

3D035466

# 6. Capacity Tables

## 6.1 50Hz

### 6.1.1 Cooling Capacity

**FXK – L**

**[50Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. 14.0°CWB 20°CDB | | 16.0°CWB 23°CDB | | 18.0°CWB 26°CDB | | 19.0°CWB 27°CDB | | 20.0°CWB 28°CDB | | 22.0°CWB 30°CDB | | 24.0°CWB 32°CDB | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 25 | 10.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.7 | 2.5 |
| | 12.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.6 | 2.5 |
| | 14.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.6 | 2.5 |
| | 16.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.5 | 2.4 |
| | 18.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.5 | 2.4 |
| | 20.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.4 | 2.4 |
| | 21.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.4 | 2.4 |
| | 23.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.4 | 2.3 |
| | 25.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.2 | 2.5 | 3.3 | 2.3 |
| | 27.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.2 | 2.4 | 3.3 | 2.3 |
| | 29.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.1 | 2.4 | 3.2 | 2.3 |
| | 31.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.1 | 2.4 | 3.2 | 2.3 |
| | 33.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.1 | 2.4 | 3.1 | 2.3 |
| | 35.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 2.9 | 2.5 | 3.0 | 2.4 | 3.1 | 2.3 |
| | 37.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 2.9 | 2.5 | 3.0 | 2.4 | 3.0 | 2.2 |
| | 39.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 2.9 | 2.5 | 2.9 | 2.3 | 3.0 | 2.2 |
| 32 | 10.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 12.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.6 | 2.9 |
| | 14.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.6 | 2.8 |
| | 16.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.5 | 2.8 |
| | 18.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.5 | 2.8 |
| | 20.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.4 | 2.7 |
| | 21.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.4 | 2.7 |
| | 23.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.2 | 2.9 | 4.3 | 2.7 |
| | 25.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.2 | 2.8 | 4.3 | 2.7 |
| | 27.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.1 | 2.8 | 4.2 | 2.7 |
| | 29.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.0 | 2.8 | 4.1 | 2.6 |
| | 31.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.0 | 2.7 | 4.1 | 2.6 |
| | 33.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 3.9 | 2.7 | 4.0 | 2.6 |
| | 35.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 3.9 | 2.7 | 4.0 | 2.6 |
| | 37.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.7 | 2.8 | 3.8 | 2.7 | 3.9 | 2.6 |
| | 39.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.7 | 2.8 | 3.8 | 2.7 | 3.8 | 2.6 |
| 40 | 10.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.9 | 3.4 |
| | 12.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.8 | 3.4 |
| | 14.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.7 | 3.3 |
| | 16.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 18.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.6 | 3.2 |
| | 20.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.5 | 3.2 |
| | 21.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.5 | 3.2 |
| | 23.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.4 | 3.1 |
| | 25.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.2 | 3.3 | 5.3 | 3.1 |
| | 27.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.1 | 3.3 | 5.2 | 3.1 |
| | 29.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.1 | 3.3 | 5.2 | 3.1 |
| | 31.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.0 | 3.2 | 5.1 | 3.1 |
| | 33.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 4.9 | 3.2 | 5.0 | 3.0 |
| | 35.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.7 | 3.3 | 4.8 | 3.2 | 4.9 | 3.0 |
| | 37.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.7 | 3.3 | 4.8 | 3.2 | 4.9 | 3.0 |
| | 39.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.1 | 4.6 | 3.3 | 4.7 | 3.1 | 4.8 | 3.0 |

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 63 | 10.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.3 | 5.4 |
| | 12.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.1 | 5.3 |
| | 14.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.0 | 5.2 |
| | 16.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 8.9 | 5.2 |
| | 18.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 8.8 | 5.1 |
| | 20.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 8.7 | 5.0 |
| | 21.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 8.6 | 5.0 |
| | 23.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.3 | 5.3 | 8.5 | 4.9 |
| | 25.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.2 | 5.2 | 8.4 | 4.9 |
| | 27.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.1 | 5.1 | 8.3 | 4.8 |
| | 29.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.0 | 5.0 | 8.2 | 4.8 |
| | 31.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 7.9 | 5.0 | 8.0 | 4.8 |
| | 33.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 7.8 | 4.9 | 7.9 | 4.7 |
| | 35.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 7.6 | 4.8 | 7.8 | 4.7 |
| | 37.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 5.0 | 7.4 | 5.2 | 7.5 | 4.7 | 7.7 | 4.7 |
| | 39.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 5.0 | 7.2 | 5.1 | 7.4 | 4.7 | 7.6 | 4.6 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.1.2 Heating Capacity

### FXK-L

**[50Hz]** **Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 25 | -14.7 | -15.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -12.6 | -13.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -10.5 | -11.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | -9.5 | -10.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -8.5 | -9.1 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -7.0 | -7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -5.0 | -5.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -3.0 | -3.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | 0.0 | -0.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 3.0 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -12.6 | -13.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -10.5 | -11.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | -9.5 | -10.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -8.5 | -9.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -7.0 | -7.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -5.0 | -5.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -3.0 | -3.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | 0.0 | -0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 3.0 | 2.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.4 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -12.6 | -13.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -10.5 | -11.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -9.5 | -10.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -8.5 | -9.1 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| | -7.0 | -7.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -5.0 | -5.6 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -3.0 | -3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | 0.0 | -0.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 3.0 | 2.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.5 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.7 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

# 6.2 60Hz

## 6.2.1 Cooling Capacity

**FXK – L**

**[60Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 25 | 10.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.7 | 2.5 |
| | 12.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.7 | 2.5 |
| | 14.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.7 | 2.5 |
| | 16.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.7 | 2.5 |
| | 18.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.7 | 2.5 |
| | 20.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.7 | 2.5 |
| | 21.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.7 | 2.5 |
| | 23.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.6 | 2.5 |
| | 25.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.6 | 2.5 |
| | 27.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.5 | 2.5 |
| | 29.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.5 | 3.5 | 2.5 |
| | 31.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.6 | 3.4 | 2.5 |
| | 33.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.6 | 3.4 | 2.4 |
| | 35.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.3 | 2.6 | 3.3 | 2.4 |
| | 37.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.5 | 3.2 | 2.6 | 3.3 | 2.4 |
| | 39.0 | 1.9 | 1.9 | 2.3 | 2.2 | 2.6 | 2.3 | 2.8 | 2.4 | 3.0 | 2.6 | 3.2 | 2.5 | 3.2 | 2.4 |
| 32 | 10.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 12.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 14.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 16.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 18.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 20.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 21.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 23.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.7 | 2.9 |
| | 25.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.6 | 2.9 |
| | 27.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.5 | 2.9 |
| | 29.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.5 | 2.8 |
| | 31.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.4 | 2.8 |
| | 33.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.3 | 2.9 | 4.3 | 2.8 |
| | 35.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.2 | 2.9 | 4.3 | 2.8 |
| | 37.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.1 | 2.9 | 4.2 | 2.8 |
| | 39.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.9 | 4.1 | 2.9 | 4.2 | 2.8 |
| 40 | 10.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.9 | 3.4 |
| | 12.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.9 | 3.4 |
| | 14.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.9 | 3.4 |
| | 16.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.9 | 3.4 |
| | 18.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.9 | 3.4 |
| | 20.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.9 | 3.4 |
| | 21.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.9 | 3.4 |
| | 23.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.8 | 3.4 |
| | 25.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 27.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.7 | 3.3 |
| | 29.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 31.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.5 | 5.5 | 3.3 |
| | 33.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.3 | 5.3 | 3.5 | 5.4 | 3.3 |
| | 35.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.2 | 3.4 | 5.4 | 3.2 |
| | 37.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.2 | 3.4 | 5.3 | 3.2 |
| | 39.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.4 | 5.1 | 3.4 | 5.2 | 3.2 |

## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 63 | 10.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.3 | 5.4 |
| | 12.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.3 | 5.4 |
| | 14.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.3 | 5.4 |
| | 16.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.3 | 5.4 |
| | 18.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.3 | 5.4 |
| | 20.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.3 | 5.4 |
| | 21.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.3 | 5.4 |
| | 23.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.2 | 5.3 |
| | 25.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 9.1 | 5.3 |
| | 27.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 8.9 | 5.2 |
| | 29.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 8.8 | 5.2 |
| | 31.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 8.7 | 5.2 |
| | 33.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.2 | 8.4 | 5.3 | 8.6 | 5.1 |
| | 35.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.3 | 8.3 | 5.2 | 8.4 | 5.1 |
| | 37.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 5.0 | 7.5 | 5.3 | 8.1 | 5.1 | 8.3 | 5.1 |
| | 39.0 | 4.9 | 4.0 | 5.8 | 4.6 | 6.7 | 4.8 | 7.1 | 5.0 | 7.5 | 5.3 | 8.0 | 5.1 | 8.2 | 5.0 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2.2 Heating Capacity

### FXK-L

**[60Hz]** **Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 25 | -14.7 | -15.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -12.6 | -13.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -10.5 | -11.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -9.5 | -10.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -8.5 | -9.1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -7.0 | -7.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -5.0 | -5.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -3.0 | -3.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 0.0 | -0.7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 3.0 | 2.2 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -12.6 | -13.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -10.5 | -11.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -9.5 | -10.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -8.5 | -9.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -7.0 | -7.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | -5.0 | -5.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| | -3.0 | -3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 0.0 | -0.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 3.0 | 2.2 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.5 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -12.6 | -13.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -10.5 | -11.0 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| | -9.5 | -10.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -8.5 | -9.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -7.0 | -7.6 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| | -5.0 | -5.6 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| | -3.0 | -3.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 0.0 | -0.7 | 4.8 | 4.8 | 4.8 | 4.8 | 4.6 | 4.2 |
| | 3.0 | 2.2 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.6 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| 63 | -14.7 | -15.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | -12.6 | -13.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -10.5 | -11.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | -9.5 | -10.0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -8.5 | -9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -7.0 | -7.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| | -5.0 | -5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | -3.0 | -3.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.8 |
| | 0.0 | -0.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.4 | 6.8 |
| | 3.0 | 2.2 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.9 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 9.2 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |

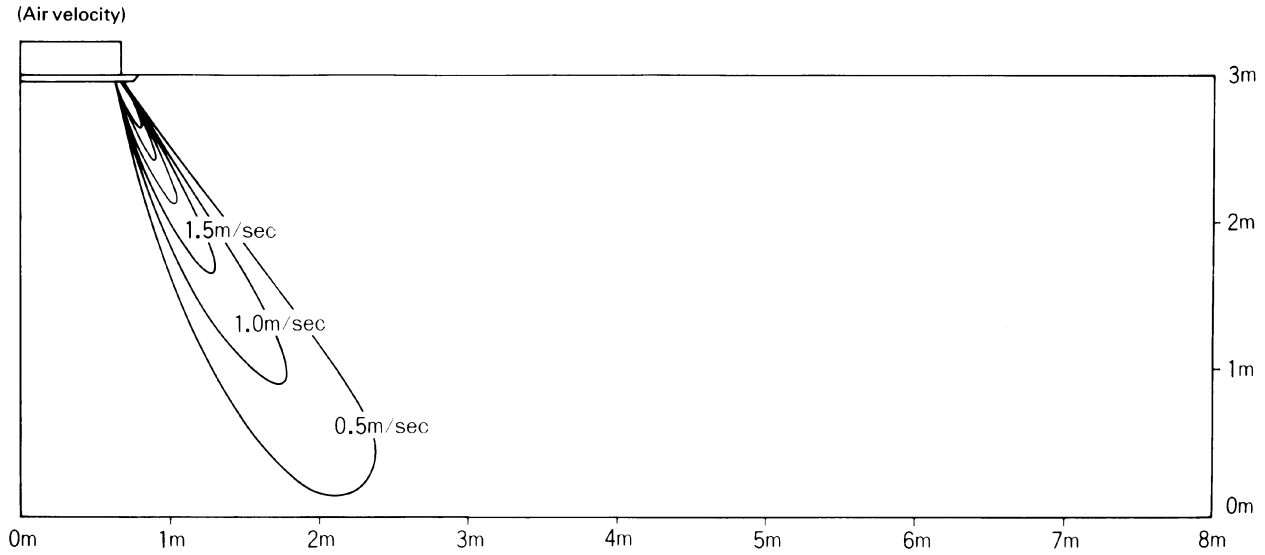
TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

# 7. Air Velocity and Temperature Distributions (Reference Data)

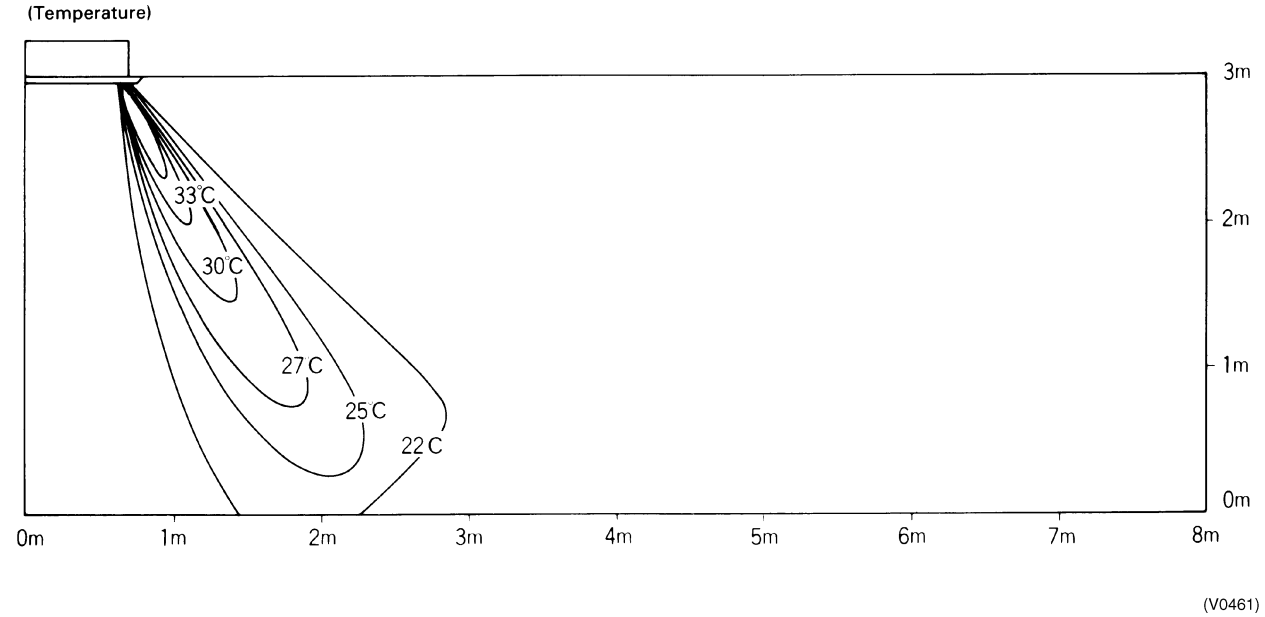
**FXK63L**

**(Heating·Air Velocity Distribution)**
**Lower Air Flow**




**FXK63L**

**(Heating·Temperature Distribution)**
**Lower Air Flow**




**Note:**
The corner type is applicable on a high ceiling. The standard setup height is 3m. Shown here is the measurement distribution at the ceiling height of 3m.

# 8. Electric Characteristics

| Units | | | | | Power supply | | IFM | | Input(W) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Type | Hz | Volts | Voltage range | MCA | MFA | KW | FLA | Cooling | Heating |
| FXK25L FXKQ25M | VE | 50 | 220-240 | MAX. 264 Min. 198 | 0.3 | 15 | 0.015 | 0.2 | 66 | 46 |
| FXK32L FXKQ32M | | | | | 0.3 | 15 | 0.015 | 0.2 | 66 | 46 |
| FXK40L FXKQ40M | | | | | 0.3 | 15 | 0.020 | 0.2 | 76 | 56 |
| FXK63L FXKQ63M | | | | | 0.5 | 15 | 0.045 | 0.4 | 105 | 85 |
| FXK25L FXKQ25M | VE | 60 | 220 | MAX. 242 Min. 198 | 0.4 | 15 | 0.015 | 0.3 | 69 | 49 |
| FXK32L FXKQ32M | | | | | 0.4 | 15 | 0.015 | 0.3 | 69 | 49 |
| FXK40L FXKQ40M | | | | | 0.5 | 15 | 0.020 | 0.4 | 92 | 72 |
| FXK63L FXKQ63M | | | | | 0.6 | 15 | 0.045 | 0.5 | 120 | 100 |

4

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
KW : Fan Motor Rated Output(KW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range

   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

   MCA = 1.25 X FLA

   MFA ≦ 4 X FLA

   (Next lower standard fuse rating. Min. 15A)

4. Select wire size based on the MCA.

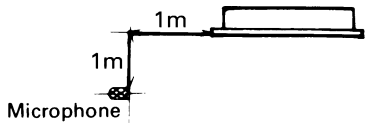
5. Instead of fuse, use Circuit Breaker.

4D037076A

# 9. Sound Levels

## Overall

■ **Ceiling Mounted Cassette Corner Type**




(V0473)

**Notes:**
1. The operating conditions are assumed to be standard (JIS conditions)
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

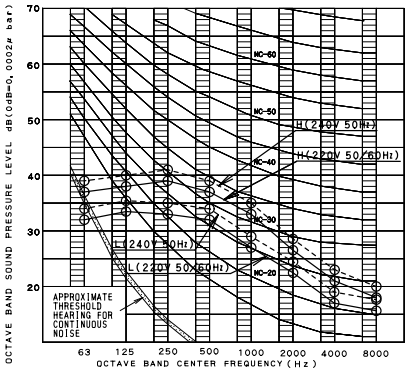
dBA

| Model | 220V 50/60Hz | | 240V 50/60Hz | |
|---|---|---|---|---|
| | H | L | H | L |
| FXK25L<br>FXK32L | 38 | 33 | 40 | 35 |
| FXK40L | 40 | 34 | 42 | 36 |
| FXK63L | 42 | 37 | 44 | 39 |

## Octave Band Level

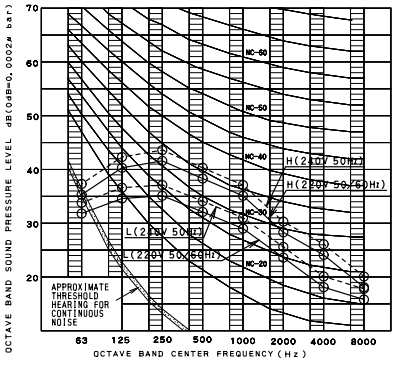
○——○ 220V
○- - - -○ 240V

**FXK25L·32LVE**



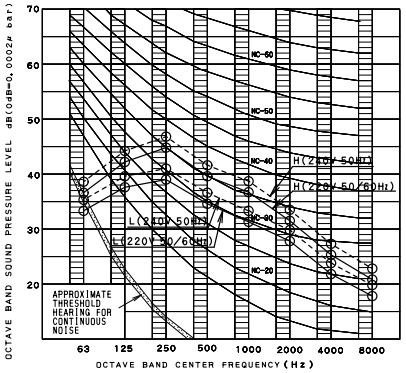

4D037071

**FXK40LVE**




4D037072

**FXK63LVE**



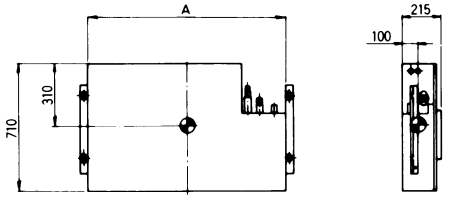

4D037073

# 10. Installation



## Center of Gravity

Unit (mm)

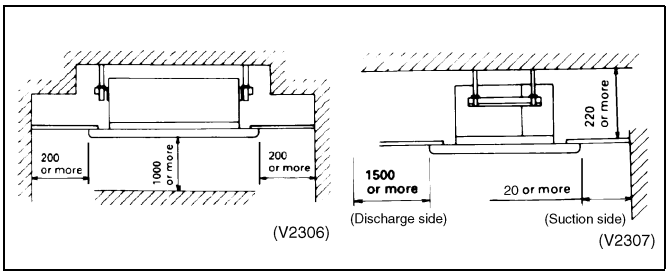



| Model | A |
|---|---|
| FXK25·32·40LVE | 1110 |
| FXK63LVE | 1310 |

4D037079

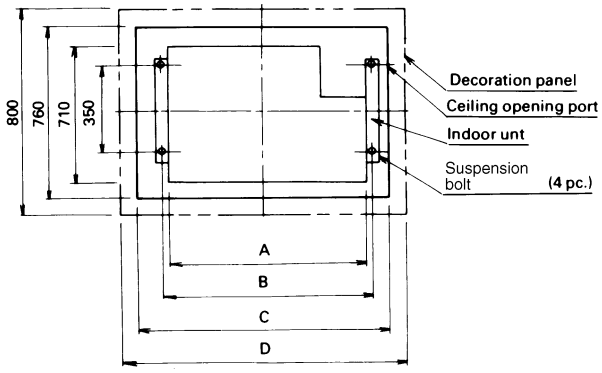
## Service Space

Unit (mm)




**Note:**
Above figure means minimum value. Please keep these value at least.

## Bolt Pitch




Unit (mm)

| Name of unit | A | B | C | D |
|---|---|---|---|---|
| FXK25·32·40L | 1110 | 1150 | 1200 | 1240 |
| FXK63L | 1310 | 1350 | 1400 | 1440 |

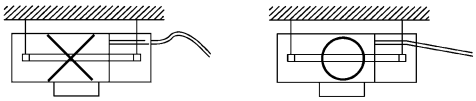
(V2308)

## Drain Pump Kit

| Indoor unit | Drain pump kit |
|---|---|
| FXK~L | Standard (Equipped with indoor unit) |

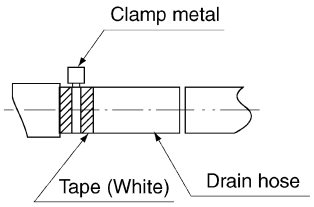
## Drain Piping

**⟨⟨Rig the drain pipe as shown below and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.⟩⟩**



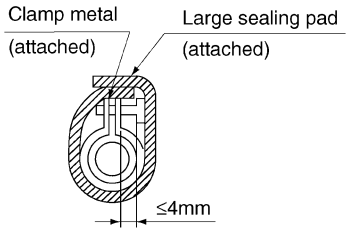
**(1)** Install the drain pipes.

- Keep piping as short as possible and slope it downwards so that air may not remaine trapped inside the pipe.
  The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe (vinyl tube; pipe size: 25 mm; outer dimension: 32 mm).
  Use the attached drain hose and clamp metal. Insert the drain hose into the drain socket, up to the white tape. Tighten the clamp until the screw head is less than 4 mm from the hose.




**⚠ CAUTION**

Setting the unit at an angle opposite to the drain piping might cause leaks.




Wrap the attached sealing pad over the clamp and drain hose to insulate.

Insulate the drain hose inside the building.

While referring to the figure on the right, insulate the clamp and drain hose with the attached large sealing pad.

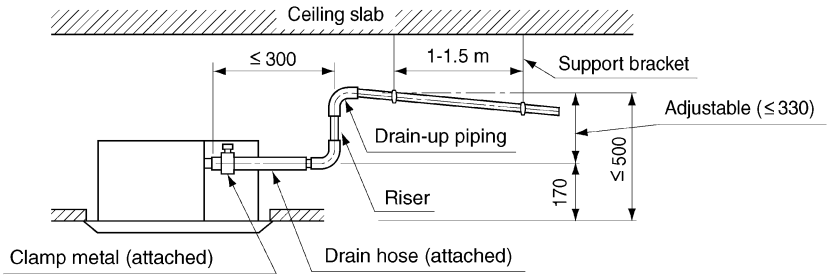
If the drain hose cannot be sufficiently set on a slope, execute the drain raising piping.

Secure a downward gradient of 1/100 or more for the drain pipe. To accomplish this, mount supporting brackets at an interval of 1 - 1.5 m.

**⟨Precautions when doing drain-up piping work.⟩**

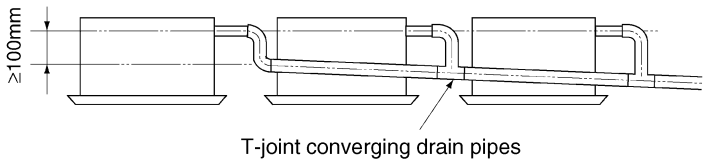
Make sure the drain-up piping is at most 330 mm high.

Stand the drain-up piping horizontally, and make sure it is not further than 300 mm from the base of the drain socket.



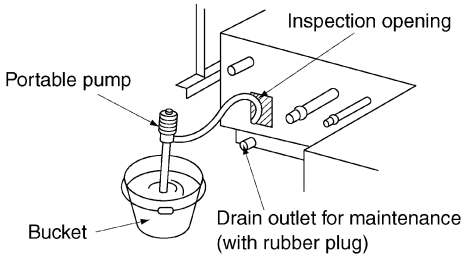

Use the following outline if laying concentrated drain piping.

If converging multiple drain pipes, install according to the procedure shown below.




Select converging drain pipes whose gauge is suitable for the operating capacity of the unit.

**(2)** After piping work is finished, check drainage flows smoothly.
Open the inspection opening, add approximately 1000 cc of water slowly into the drain pan and check drainage flow.




**NOTE**

Use the drain outlet for maintenance to drain water from the drain pan.

3P086156-4A-9

**WHEN ELECTRIC WIRING WORK IS FINISHED**

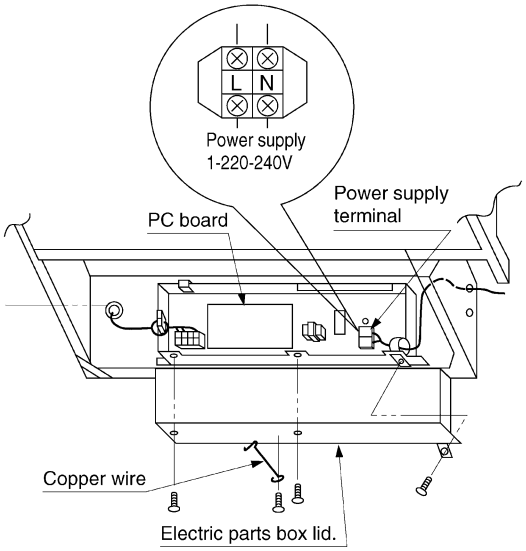
- Check drainage flow during COOL running, explained under “TESTOPERATION”.

**WHEN ELECTRIC WIRING WORK IS NOT FINISHED**

Remove the electric parts box lid, connect a power supply and remote controller to the terminals. (Refer to the **Installation Manuals**)



Next, press the inspection/test operation button “ TEST ” on the remote controller. The unit will engage the test operation mode. Press the operation mode selector button “ ” until selecting FAN OPERATION “ ”. Then, press the ON/OFF button “ ”. The indoor unit fan and drain pump will start up. Check that the water has drained from the unit. Press “ TEST ” to go back to the first mode.




**⚠ CAUTION**

Drain piping connections

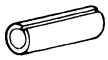
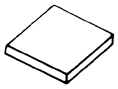
Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.

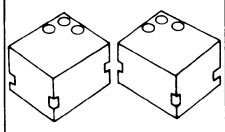
3P086156-4A-10

# 11. Accessories

## Standard Accessories

**FXK25L~63L**

| Name | Clamp metal | Paper pattern for installation | Drain hose | Insulation for fitting | Sealing pad | Insulation for hanger bracket |
|---|---|---|---|---|---|---|
| Quantity | 1 | 1 | 1 pc. | 1 set | Large and small 1 each | 4 |
| Shape | | Corrugated cardboard | |  for gas pipe for liquid pipe | Large Small |  |

| Name | Washer for hanging bracket | Clamp | Positioning jig for installation | Air outlet blocking pad | (Other) |
|---|---|---|---|---|---|
| Quantity | 8 | 7 | 2 each | 1 | • Operation manual<br>• Installation manual |
| Shape | | |  4 screws | | • Screws for fixing panels are attached to air inlet panel. |

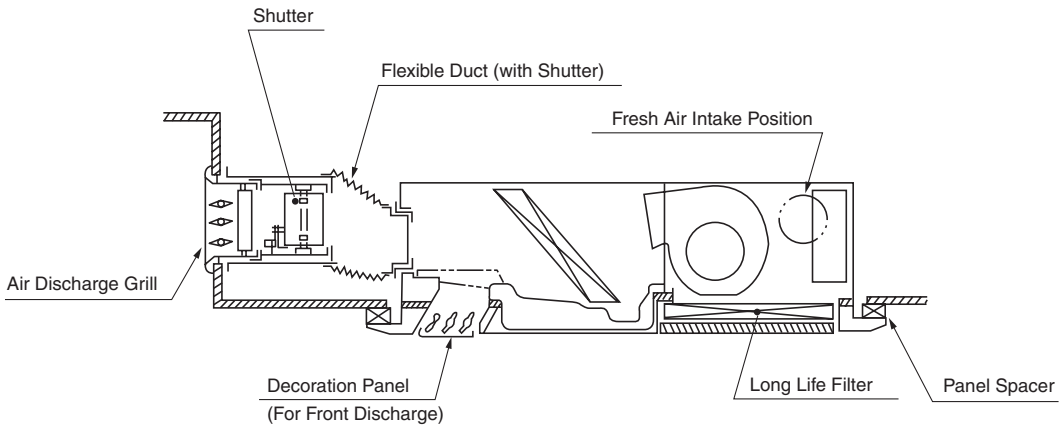
3P086156-4A-3

## Optional Accessories (For Unit)

| Item | Type | FXK25L<br>FXK32L<br>FXK40L | FXK63L |
|---|---|---|---|
| Panel related | Decoration Panel | BYK45FJW1 | BYK71FJW1 |
| | Long life replacement filter | KAFJ521F56 | KAFJ521F80 |
| Air inlet and air discharge outlet related | Air discharge grill | K-HV7AW | K-HV9AW |
| | Air discharge blind panel | KDBJ52F56W | KDBJ52F80W |
| | Panel Spacer | KPBJ52F56W | KPBJ52F80W |
| | Flexible duct (with shutter) | KFDJ52F56 | KFDJ52F80 |

3D037081

## Optional Accessories (For Controls) Refer to P.484.




(V0678)

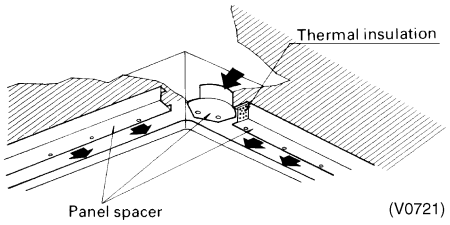
## Panel Spacer

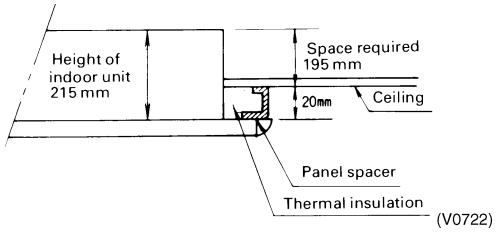
If the space above the ceiling is not available for more than 220mm, use the panel spacer, which enables to install the unit in 200mm space.

### Specifications

| Item \ Model | | KPBJ52F56W | KPBJ52F80W |
|---|---|---|---|
| Color | | White | |
| Dimensions (mm) | Height | 20 | |
| | Width | 1,240 | 1,440 |
| | Depth | 800 | |
| Materials | | Outer Frame : Resin Molding<br>Thermal Insulation : Foam Polyethylene | |
| Contents | | Panel Spacer(1)(2)(3)<br>Thermal Insulation (1)(2), Screws | |
| Applicable Decoration Panel | | BYK45FJW1 | BYK71FJW1 |
| Applicable Model | | For Indoor Unit 25~40Class | For Indoor Unit 63Class |

### Installation



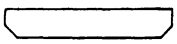



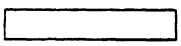

### Precaution at use

1. Be sure to stick insulators on the panel spacer after the panel spacer is assembled.
2. Secure 20 cm height in the space above ceiling.

### Contents of Kit

Prior to installation check whether you have the complete kit of parts as shown below including the installation manual.

| Name | Panel spacer (1) | Panel spacer (2) | Panel spacer (3) | Thermal insulation (1) |
|---|---|---|---|---|
| Quantity | 2 pieces | 2 pieces | 4 pieces | 2 pieces |
| Shape | | | |  |

| Name | Thermal insulation (2) | Screws | Installation manual |
|---|---|---|---|
| Quantity | 2 pieces | 18 pieces | 1 piece |
| Shape |  | <br>M4×12 | |

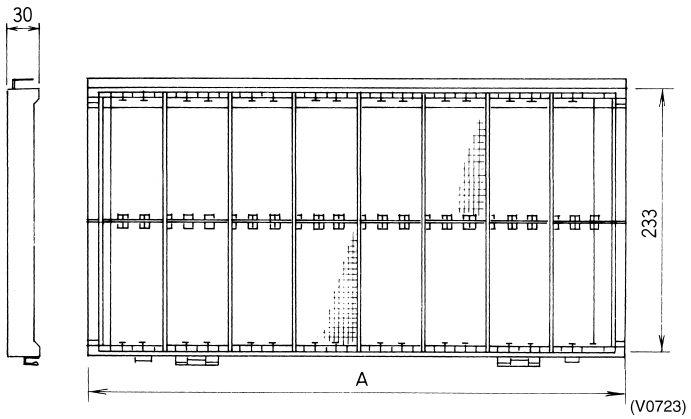
(V0920)

## Long Life Replacement Filter

### Specifications

| Items \ Model | KAFJ521F56 | KAFJ521F80 |
|---|---|---|
| Life Time, Average Efficiency | 2500 hours (dust density 0.15 mg/m³), 45% (Gravity method) | |
| Filter | Mildew Proof Resin Net | Mildew Proof Resin Net |
| Required Quantity (for One Unit) | Two pieces | Two pieces |
| Applicable Models | 25·32·40Class | 63Class |

### Dimensions



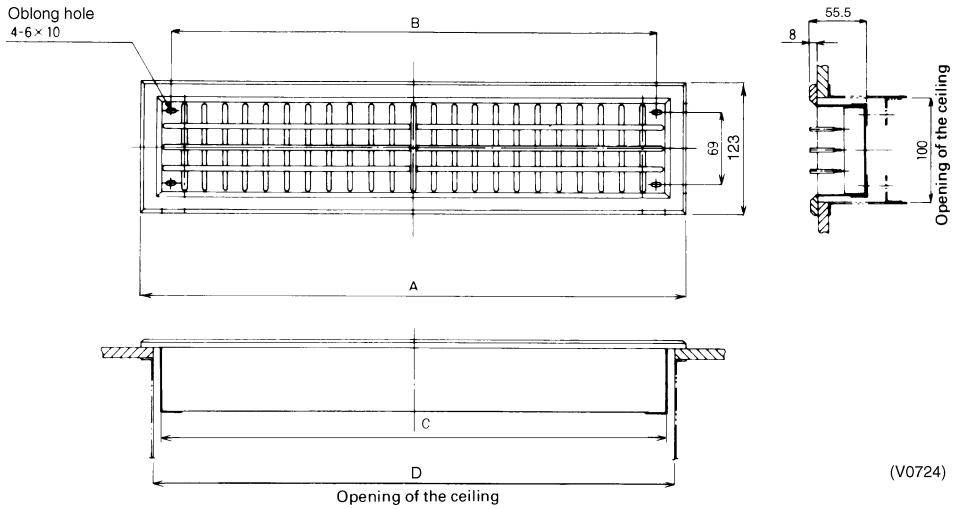

| Model | A |
|---|---|
| KAFJ521F56 | 403 |
| KAFJ521F80 | 503 |

## Discharge Grille

This optional kit is used when the unit is installed with front air discharge. The direction of air can be adjusted flexibly. This discharge grille should be installed with the following flexible duct.

### Specifications

| Items \ Model | K-HV7AW | K-HV9AW |
|---|---|---|
| Air Flow Rate (m³/min) | 9~13 | 12~19 |
| Type | HV type (Horizontal blade and vertical blade movable) | |
| External Color | White | White |
| Materials | Steel plate (A cryptomeria only at the tip of the outlet + nylon flocking) | |
| Structural Parts | Discharge grille, Screws, Blade control tool | |
| Applicable Flexible Duct | KFDJ52F56 | KFDJ52F80 |
| Applicable Models | 25·32·40Class | 63Class |




| Model | Applicable Model | A | B | C | D |
|---|---|---|---|---|---|
| K-HV7AW | For 25~40Class | 523 | 466 | 488 | 500 |
| K-HV9AW | For 63Class | 723 | 666 | 688 | 700 |

## Flexible Duct (with Shutter)

The built-in shutter's Open/Shut action makes it possible to regulate the air flow rate. Besides, the flexible duct helps the connection to the main unit to give more flexibility.

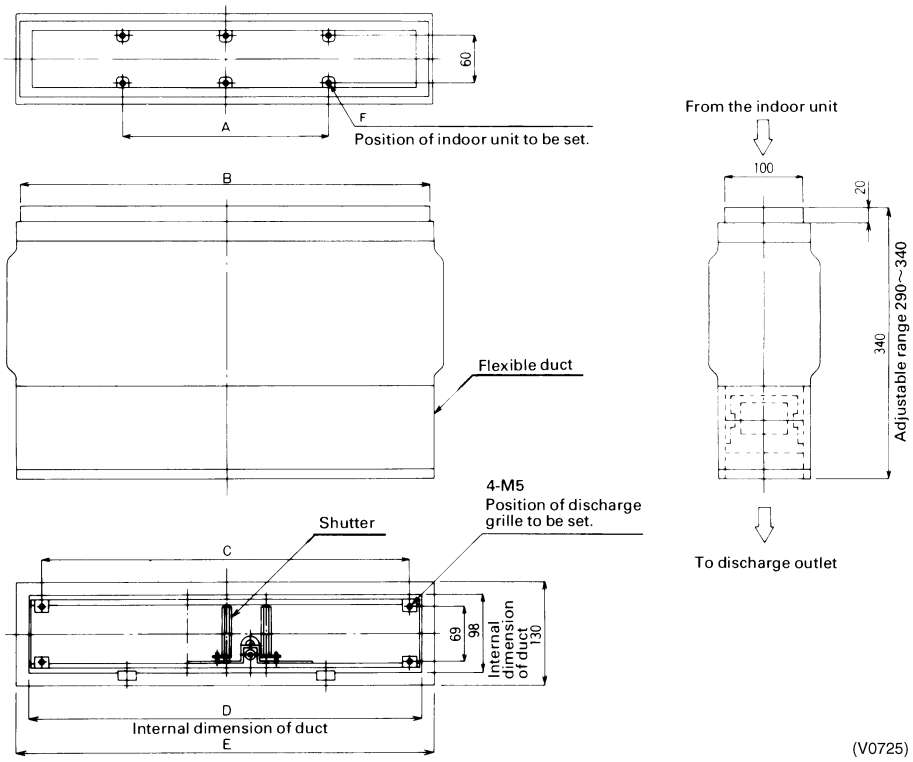
### Specifications

| Items \ Model | | KFDJ52F56 | KFDJ52F80 |
|---|---|---|---|
| External Dimension (mm) | H | 132 | |
| | W | 532 | 732 |
| | D | Max. 353 | |
| Materials | | Outer frame : Steel plate<br>Flexible Duct : Glass wool, Vinyl chloride sheet | |
| Contents | | Flexible duct, Shutter, Duct's set plate, Insulator, Outlet seal pad, Set screw, Shutter Open/shut tool, Blade adjusting tool | |
| Applicable Models | | 25·32·40Class | 63Class |

### Precaution at use

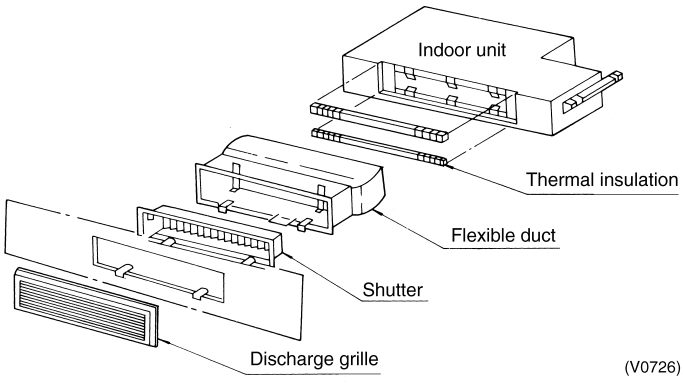
Be sure to seal out the opening of the drain pan with drain outlet seal materials after the front panel of the indoor unit is removed away.

### Dimension




| Model | Applicable Model | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|
| KFDJ52F56 | For Indoor Unit 25~40Class | 260 | 520 | 466 | 498 | 530 | 4-ϕ Hole |
| KFDJ52F80 | For Indoor Unit 63Class | 460 | 720 | 666 | 698 | 730 | 6-ϕ7 Hole |

### Installation



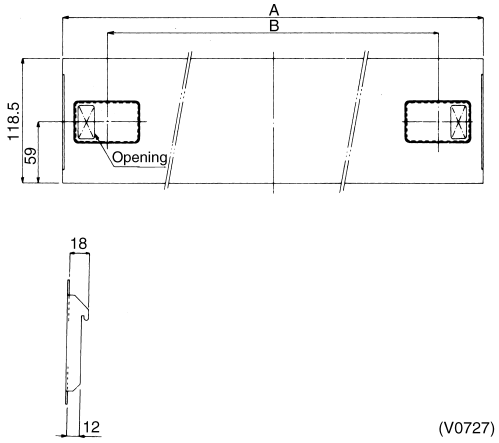
## Air Discharge Blind Panel

This is the parts which closes the lower discharge outlet when the unit is used as a front discharge style.

### Specifications

| Items \ Model | | KDBJ52F56W | KDBJ52F80W |
|---|---|---|---|
| External color | | White | White |
| External Dimension (mm) | T | 18 | |
| | W | 1,126 | 1,326 |
| | D | 119 | |
| Materials | | Steel plate | |
| Contents | | Outlet decoration panel assembly, Decoration panel suspension plate, Name Plate, Caution plate set board | |
| Applied Decoration Panel | | BYK45FJW1 | BYK71FJW1 |
| Applicable Models | | 25·32·40Class | 63Class |

### External dimension

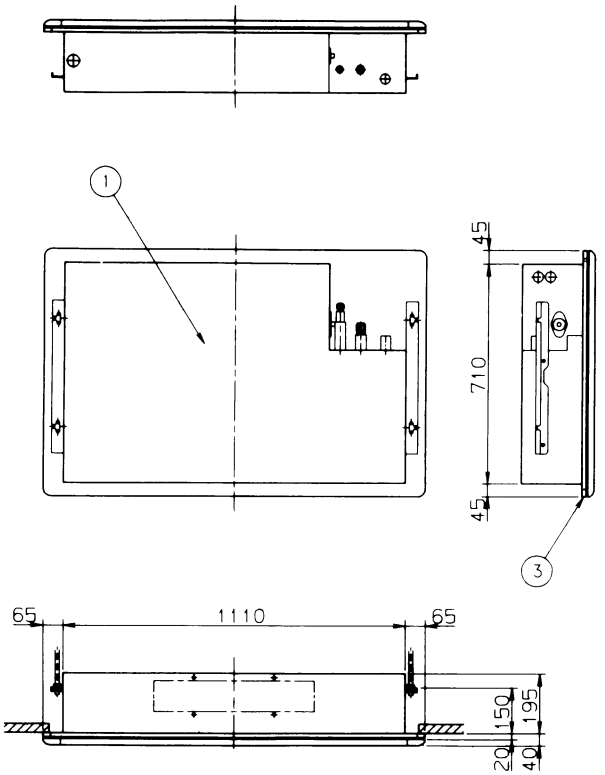


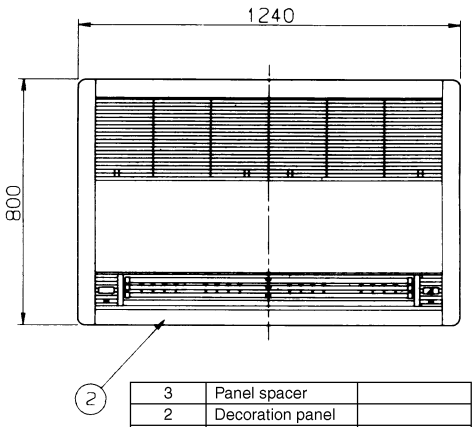

| Model | A | B |
|---|---|---|
| KDBJ52F56 | 1125.5 | 1040 |
| KDBJ52F80 | 1325.5 | 1240 |

## Dimensions with the Optional Accessories

### Panel Spacer

■ **FXK25~40L**




Optional panel spacer

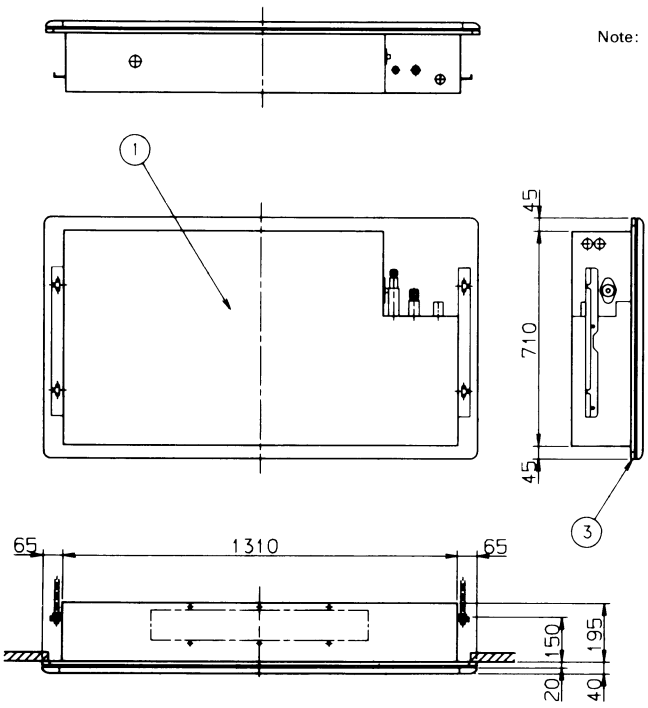
| | |
|---|---|
| KPBJ52F56W | White 10Y 9/0.5 |

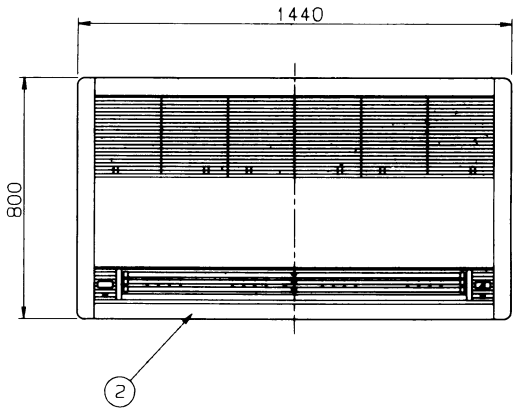
Note: When other optional kit is installed, refer to the installation drawing of its optional kit.

| Number | Name | Description |
|---|---|---|
| 3 | Panel spacer | |
| 2 | Decoration panel | |
| 1 | Indoor unit | |

JC : DU825-219

■ **FXK63L**




·Optional panel spacer

| | |
|---|---|
| KPBJ52F80W | White 10Y 9/0.5 |

Note: When other optional kit is installed, refer to the installation drawing of its optional kit.

| Number | Name | Description |
|---|---|---|
| 3 | Panel spacer | |
| 2 | Decoration panel | |
| 1 | Indoor unit | |

JC : DU827-242

# FXD-M
# Slim Ceiling Mounted Duct Type

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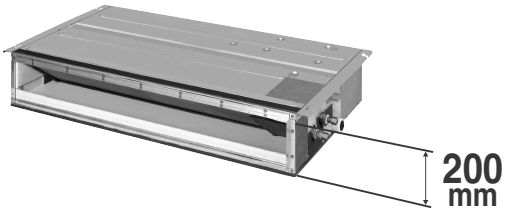
5

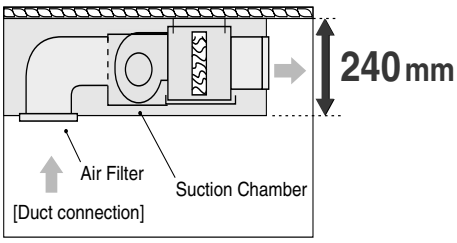
# 1. Features

**FXD20M/FXD25M/FXD32M**
**FXD40M/FXD50M/FXD63M**

## Slim design, quietness and static pressure switching

- Only 200 mm in height, this new model can be installed in rooms with as little as 240 mm depth between the drop ceiling and ceiling slab.



- Low operating sound

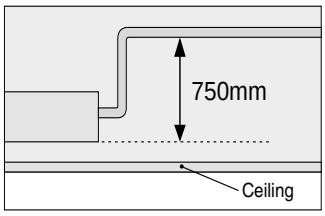
(dB(A))

| Class | 20 | 25 | 32 | 40 | 50 | 63 |
|---|---|---|---|---|---|---|
| Operating sound (H/L) | 33/29 | 33/29 | 33/29 | 34/30 | 35/31 | 36/32 |

*The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB. (When 20Pa)

- External static pressure selectable (20Pa-49Pa / factory set : 20Pa) switching make this indoor unit a very comfortable and flexible model.

- Drain-up pump is equipped as standard accessory with 750mm lift.




*This product is not applicable to VRV PLUS for high temperature use.

# 2. Specifications

## Slim Ceiling Mounted Duct Type

| Model | | | FXD20MVE | FXD25MVE | FXD32MVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 2,000 | 2,500 | 3,150 |
| | | Btu/h | 7,900 | 9,900 | 12,500 |
| | | kW | 2.3 | 2.9 | 3.7 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 2.2 | 2.8 | 3.6 |
| ★3 Heating Capacity | | kcal/h | 2,200 | 2,800 | 3,400 |
| | | Btu/h | 8,500 | 10,900 | 13,600 |
| | | kW | 2.5 | 3.2 | 4.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 200×900×620 | 200×900×620 | 200×900×620 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 2×12×1.5 | 2×12×1.5 | 2×12×1.5 |
| | Face Area | m² | 0.176 | 0.176 | 0.176 |
| Fan | Model | | — | — | — |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 62×1 | 62×1 | 62×1 |
| | Air Flow Rate (H/L) | m³/min | 9.5/7.5 | 9.5/7.5 | 10.5/8.5 |
| | External Static Pressure | Pa | 49-20 ★4 | 49-20 ★4 | 49-20 ★4 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Foamed Polyethylene | Foamed Polyethylene | Foamed Polyethylene |
| Air Filter | | | — ★6 | — ★6 | — ★6 |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) |
| | Drain Pipe | mm | VP20 (External Dia. 26 Internal Dia. 20) | VP20 (External Dia. 26 Internal Dia. 20) | VP20 (External Dia. 26 Internal Dia. 20) |
| Machine Weight | | kg | 25 | 25 | 25 |
| ★5 Sound Level (H/L) | | dBA | 33/29 | 33/29 | 33/29 |
| Safety Devices | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Standard Accessories | | | Operation Manual, Installation Manual, Warranty, Drain Hose, Sealing Pads, Clamps, Washers, Insulation for Fitting, Clamp Metal, Washer Fixing Plate Screws for Duct Flanges. | Operation Manual, Installation Manual, Warranty, Drain Hose, Sealing Pads, Clamps, Washers, Insulation for Fitting, Clamp Metal, Washer Fixing Plate Screws for Duct Flanges. | Operation Manual, Installation Manual, Warranty, Drain Hose, Sealing Pads, Clamps, Washers, Insulation for Fitting, Clamp Metal, Washer Fixing Plate Screws for Duct Flanges. |
| Drawing No. | | | 3D044731 | | |

### Notes:

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m (Horizontal).
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length:7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 External static pressure is changeable to set by the remote controller this pressure means “High static pressure - Standard static pressure”.
★5 The operation sound levels are the conversion values in anechoic chamber. In practice, the sound tend to be larger than the specified values due to ambient noise or reflections.
When the place of suction is changed to the bottom suction, the sound level will increase by approx, 5dBA.
★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.
★7 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★8 Refer to page 174 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860 |
| Btu/h=kW×3414 |
| cfm=m³/min×35.3 |

## Slim Ceiling Mounted Duct Type

| Model | | | FXD40MVE | FXD50MVE | FXD63MVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 4,000 | 5,000 | 6,300 |
| | | Btu/h | 15,900 | 19,900 | 25,000 |
| | | kW | 4.7 | 5.8 | 7.3 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 4.5 | 5.6 | 7.1 |
| ★3 Heating Capacity | | kcal/h | 4,300 | 5,400 | 6,900 |
| | | Btu/h | 17,000 | 21,500 | 27,300 |
| | | kW | 5.0 | 6.3 | 8.0 |
| Casing Color | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 200×900×620 | 200×900×620 | 200×1100×620 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×12×1.5 | 3×12×1.5 | 3×12×1.5 |
| | Face Area | m² | 0.176 | 0.176 | 0.227 |
| Fan | Model | | — | — | — |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 62×1 | 130×1 | 130×1 |
| | Air Flow Rate (H/L) | m³/min | 10.5/8.5 | 12.5/10.0 | 16.5/13.0 |
| | External Static Pressure | Pa | 49-20 ★4 | 49-20 ★4 | 49-20 ★4 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Foamed Polyethylene | Foamed Polyethylene | Foamed Polyethylene |
| Air Filter | | | — ★6 | — ★6 | — ★6 |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) |
| | Drain Pipe | mm | VP20 (External Dia. 26 Internal Dia. 20) | VP20 (External Dia. 26 Internal Dia. 20) | VP20 (External Dia. 26 Internal Dia. 20) |
| Machine Weight | | kg | 26 | 27 | 31 |
| ★5 Sound Level (H/L) | | dBA | 34/30 | 35/31 | 36/32 |
| Safety Devices | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Standard Accessories | | | Operation Manual, Installation Manual, Warranty, Drain Hose, Sealing Pads, Clamps, Washers, Insulation for Fitting, Clamp Metal, Washer Fixing Plate Screws for Duct Flanges. | Operation Manual, Installation Manual, Warranty, Drain Hose, Sealing Pads, Clamps, Washers, Insulation for Fitting, Clamp Metal, Washer Fixing Plate Screws for Duct Flanges. | Operation Manual, Installation Manual, Warranty, Drain Hose, Sealing Pads, Clamps, Washers, Insulation for Fitting, Clamp Metal, Washer Fixing Plate Screws for Duct Flanges. |
| Drawing No. | | | 3D044731 | | |

### Notes:

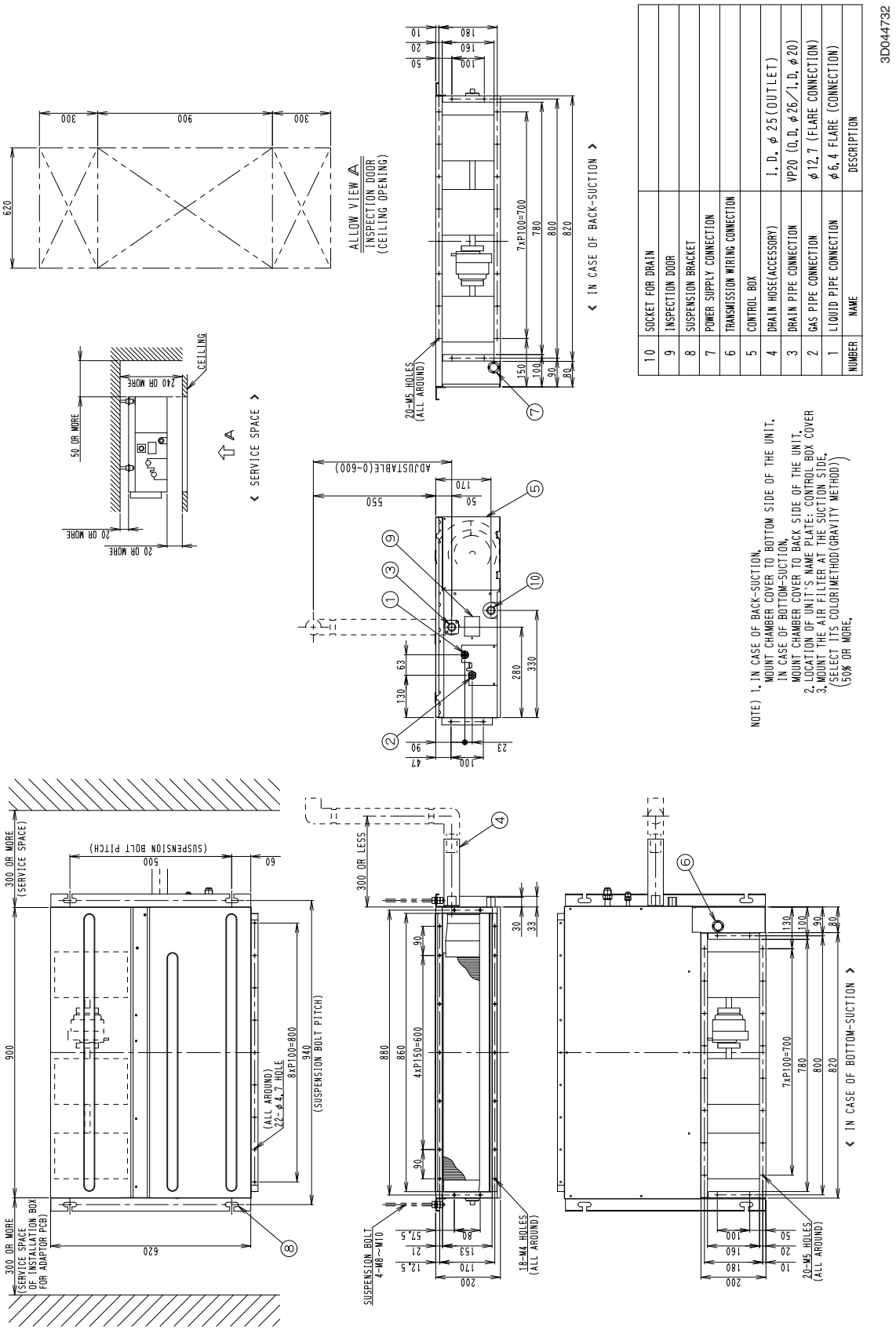
| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp; 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp; 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 External static pressure is changeable to set by the remote controller this pressure means “High static pressure - Standard static pressure”.
★5 The operation sound levels are the conversion values in anechoic chamber. In practice, the sound tend to be larger than the specified values due to ambient noise or reflections.
When the place of suction is changed to the bottom suction, the sound level will increase by approx, 5dBA.
★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.
★7 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★8 Refer to page 174 for Fan Motor Input.

# 3. Dimensions

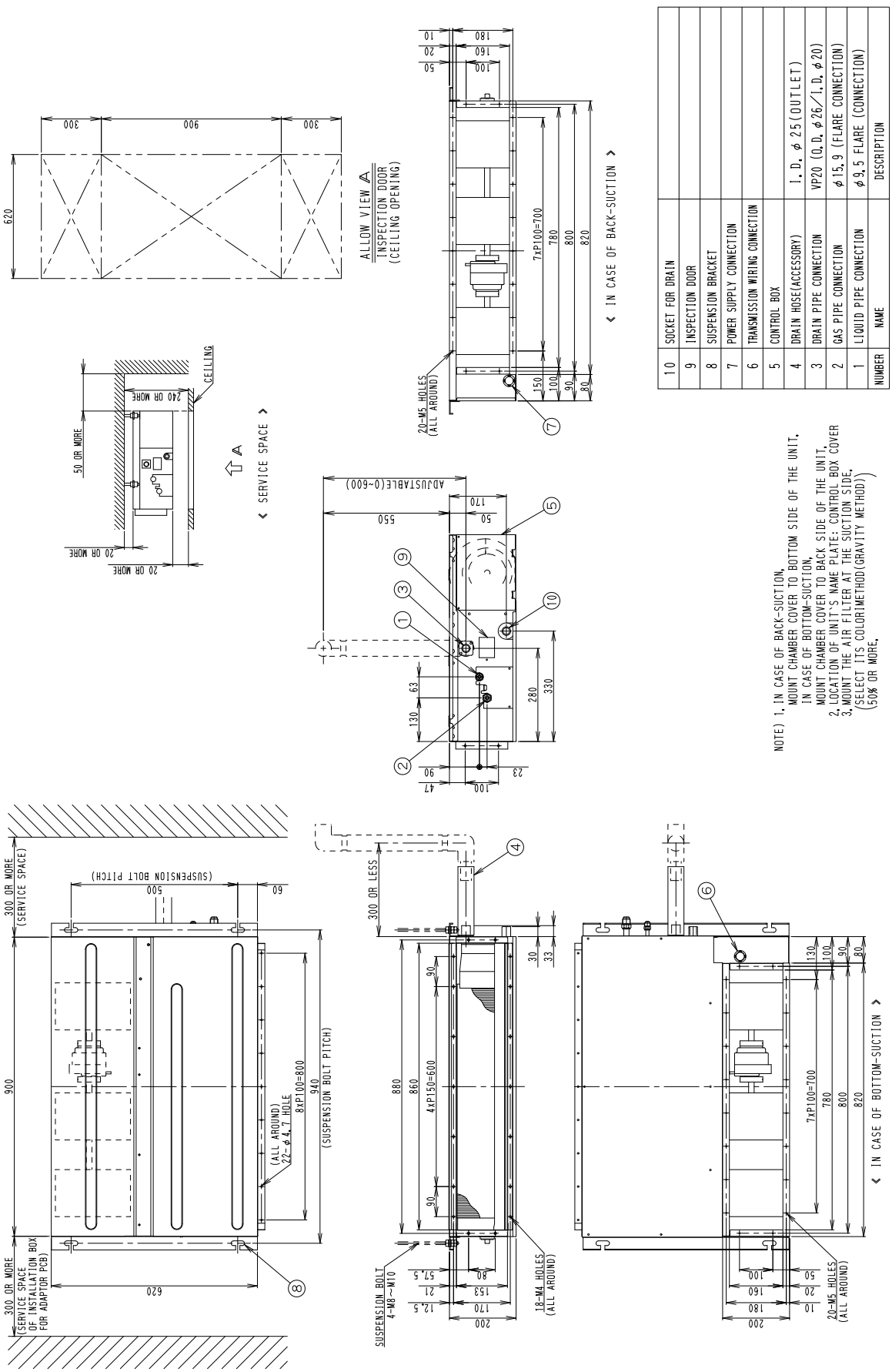
**FXD20MVE**
**FXD25MVE**
**FXD32MVE**
**FXD40MVE**

Unit (mm)



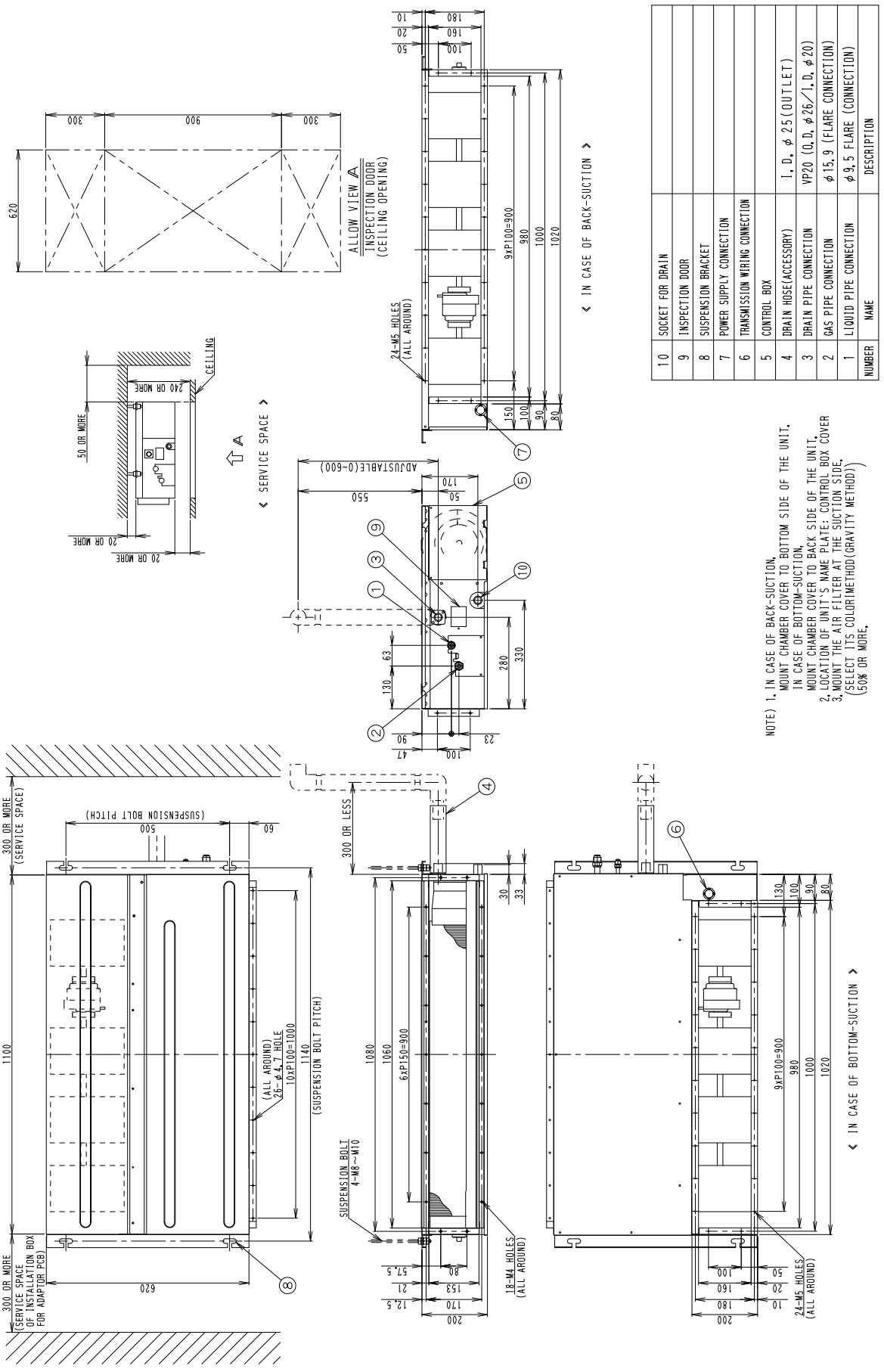
## FXD50MVE

Unit (mm)

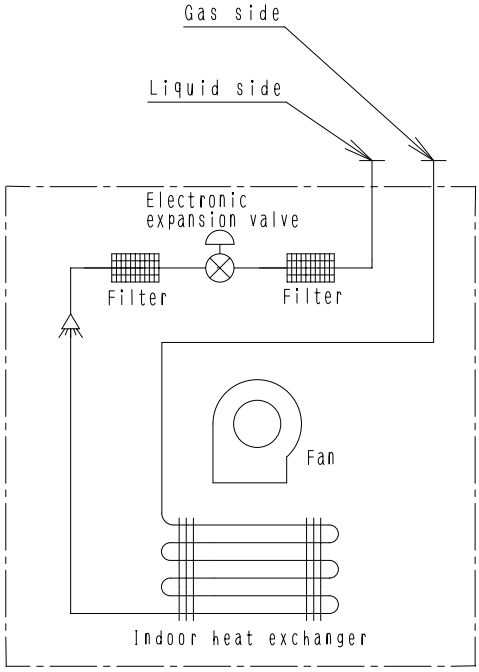


## FXD63MVE

Unit (mm)



# 4. Piping Diagrams




4D043864A

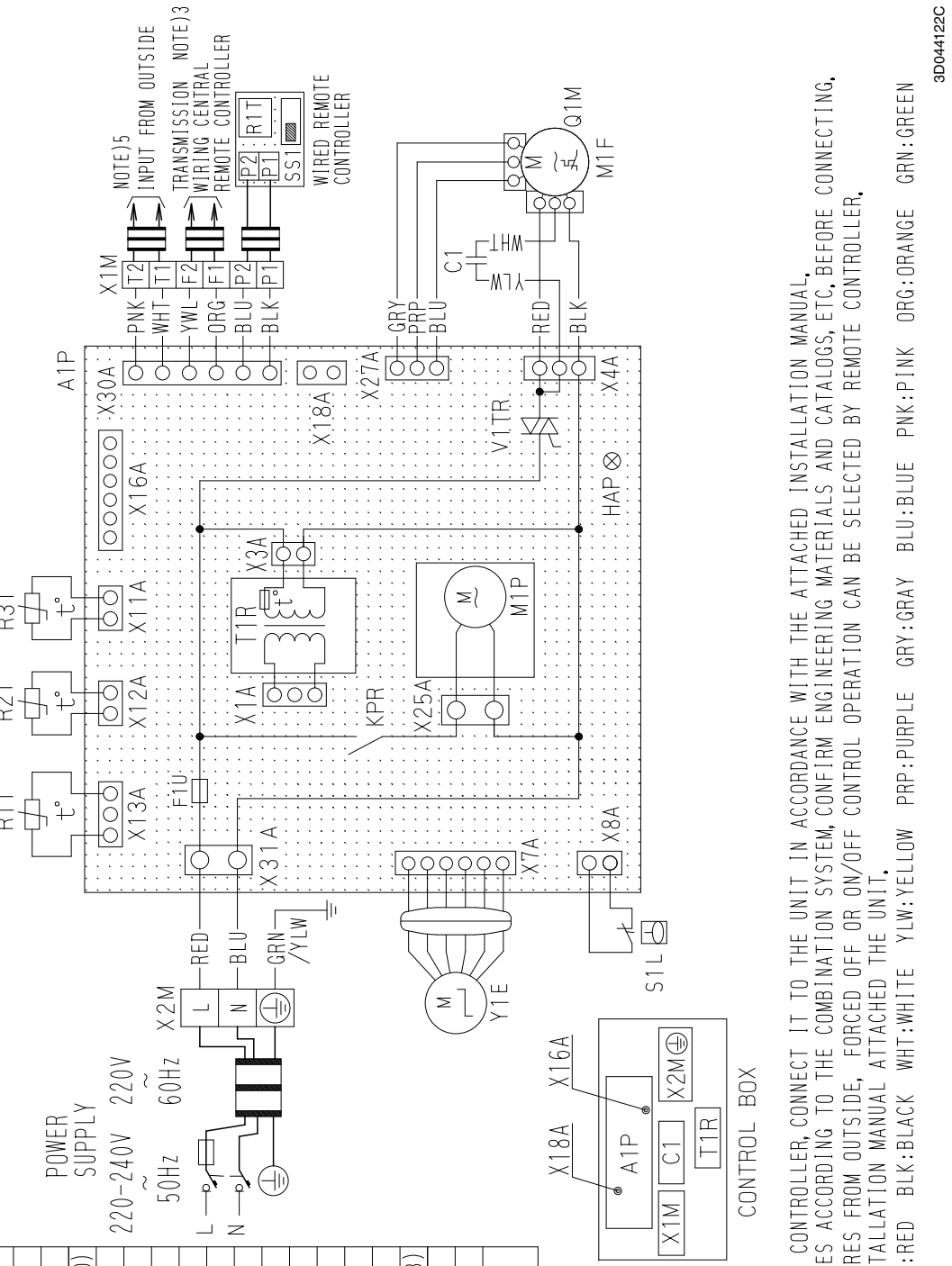
■ **Refrigerant pipe connection port diameters**

(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXD20M / 25M / 32M / 40MVE | ϕ12.7 | ϕ6.4 |
| FXD50M / 63MVE | ϕ15.9 | ϕ9.5 |

# 5. Wiring Diagrams

**FXD20M / 25M / 32M / 40M / 50M / 63MVE**




| | |
|---|---|
| A1P | PRINTED CIRCUIT BOARD |
| C1 | CAPACITOR(M1F) |
| F1U | FUSE(F5A/250V) |
| HAP | LIGHT EMITTING DIODE (SERVICE MONITOR GREEN) |
| KPR | MAGNETIC RELAY(M1P) |
| M1F | MOTOR(INDOOR FAN) |
| M1P | MOTOR(DRAIN PUMP) |
| Q1M | THERMAL PROTECTOR(M1F EMBEDDED) |
| R1T | THERMISTOR(AIR) |
| R2T | THERMISTOR(COIL-1) |
| R3T | THERMISTOR(COIL-2) |
| S1L | FLOAT SWITCH |
| T1R | TRANSFORMER(220V/22V) |
| V1TR | PHASE CONTROL CIRCUIT |
| X1M | TERMINAL BLOCK |
| X2M | TERMINAL BLOCK |
| Y1E | ELECTRONIC EXPANSION VALVE |
| | WIRED REMOTE CONTROLLER |
| R1T | THERMISTOR(AIR) |
| SS1 | SELECTOR SWITCH(MAIN/SUB) |
| | CONNECTOR FOR OPTIONAL PARTS |
| X16A | CONNECTOR(ADAPTOR FOR WIRING) |
| X18A | CONNECTOR(WIRING ADAPTOR FOR ELECTORICAL APPENDICES) |

NOTES)
1. □□□ : TERMINAL
   ⊙⊙ , ⊂⊃ : CONNECTOR
2. ⊏⊐ : FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTALLATION MANUAL.
4. REMOTE CONTROLLER MODEL VARIES ACCORDING TO THE COMBINATION SYSTEM, CONFIRM ENGINEERING MATERIALS AND CATALOGS, ETC, BEFORE CONNECTING.
5. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
6. SYMBOLS SHOW AS FOLLOWS: RED:RED BLK:BLACK WHT:WHITE YLW:YELLOW PRP:PURPLE GRY:GRAY BLU:BLUE PNK:PINK ORG:ORANGE GRN:GREEN

# 6. Electric Characteristics

| Model | Power supply | | | | | IFM | | Input(W) | |
|---|---|---|---|---|---|---|---|---|---|
| | Hz | Volts | Voltage range | MCA | MFA | KW | FLA | Cooling | Heating |
| FXD20MVE | 50 | 220~240V | Max. 264V Min. 198V | 0.9 | 15 | 0.062 | 0.7 | 150 | 137 |
| FXD25MVE | | | | 0.9 | 15 | 0.062 | 0.7 | 150 | 137 |
| FXD32MVE | | | | 0.9 | 15 | 0.062 | 0.7 | 150 | 137 |
| FXD40MVE | | | | 1.0 | 15 | 0.062 | 0.8 | 160 | 147 |
| FXD50MVE | | | | 1.0 | 15 | 0.13 | 0.8 | 165 | 152 |
| FXD63MVE | | | | 1.1 | 15 | 0.13 | 0.9 | 181 | 168 |
| FXD20MVE | 60 | 220V | Max. 242V Min. 198V | 1.0 | 15 | 0.062 | 0.8 | 161 | 147 |
| FXD25MVE | | | | 1.0 | 15 | 0.062 | 0.8 | 161 | 147 |
| FXD32MVE | | | | 1.0 | 15 | 0.062 | 0.8 | 161 | 147 |
| FXD40MVE | | | | 1.1 | 15 | 0.062 | 0.9 | 182 | 168 |
| FXD50MVE | | | | 1.3 | 15 | 0.13 | 1.0 | 185 | 170 |
| FXD63MVE | | | | 1.4 | 15 | 0.13 | 1.1 | 192 | 179 |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
KW : Fan Motor Rated Output(kW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA/MFA
   MCA = 1.25 X FLA
   MFA ≦ 4 X FLA
   (Next lower standard fuse rating. Min. 15A)
4. Select wire size based on the MCA.
5. Instead of fuse, use circuit breaker.

C: 4D044999

# 7. Capacity Tables (R22)

## 7.1 50Hz

### 7.1.1 Cooling Capacity

**FXD-M**

**[50Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. 14.0°CWB 20°CDB | | 16.0°CWB 23°CDB | | 18.0°CWB 26°CDB | | 19.0°CWB 27°CDB | | 20.0°CWB 28°CDB | | 22.0°CWB 30°CDB | | 24.0°CWB 32°CDB | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 12.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 14.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 16.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 18.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 20.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 21.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 23.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.6 | 1.9 |
| | 25.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 |
| | 27.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 |
| | 29.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.5 | 1.9 |
| | 31.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.8 |
| | 33.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.8 |
| | 35.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.4 | 1.8 |
| | 37.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.3 | 1.9 | 2.4 | 1.8 |
| | 39.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.2 | 1.8 | 2.3 | 1.8 | 2.3 | 1.8 |
| 25 | 10.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.7 | 2.2 |
| | 12.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.6 | 2.2 |
| | 14.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.6 | 2.2 |
| | 16.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.5 | 2.2 |
| | 18.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.5 | 2.2 |
| | 20.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.4 | 2.2 |
| | 21.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.4 | 2.2 |
| | 23.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.4 | 2.1 |
| | 25.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.3 | 3.3 | 2.1 |
| | 27.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.1 |
| | 29.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.2 | 3.2 | 2.1 |
| | 31.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.2 | 3.2 | 2.1 |
| | 33.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.2 | 3.1 | 2.1 |
| | 35.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.0 |
| | 37.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.1 | 3.0 | 2.0 |
| | 39.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 2.9 | 2.1 | 2.9 | 2.1 | 3.0 | 2.0 |
| 32 | 10.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 12.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.6 | 2.8 |
| | 14.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.6 | 2.8 |
| | 16.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.5 | 2.7 |
| | 18.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.5 | 2.7 |
| | 20.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.4 | 2.7 |
| | 21.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.4 | 2.7 |
| | 23.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.2 | 2.8 | 4.3 | 2.6 |
| | 25.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.2 | 2.7 | 4.3 | 2.6 |
| | 27.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.1 | 2.7 | 4.2 | 2.6 |
| | 29.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.1 | 2.6 |
| | 31.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.1 | 2.5 |
| | 33.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 3.9 | 2.6 | 4.0 | 2.5 |
| | 35.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 3.9 | 2.6 | 4.0 | 2.5 |
| | 37.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.7 | 2.7 | 3.8 | 2.6 | 3.9 | 2.5 |
| | 39.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.7 | 2.6 | 3.8 | 2.6 | 3.8 | 2.4 |
| 40 | 10.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.9 | 3.3 |
| | 12.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.8 | 3.3 |
| | 14.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.7 | 3.3 |
| | 16.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.6 | 3.3 |
| | 18.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.6 | 3.2 |
| | 20.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.5 | 3.2 |
| | 21.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.5 | 3.2 |
| | 23.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.4 | 5.4 | 3.2 |
| | 25.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.2 | 3.4 | 5.3 | 3.2 |
| | 27.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.1 | 3.4 | 5.2 | 3.1 |
| | 29.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.1 | 3.4 | 5.2 | 3.1 |
| | 31.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.0 | 3.3 | 5.1 | 3.1 |
| | 33.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 4.9 | 3.3 | 5.0 | 3.1 |
| | 35.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.7 | 3.3 | 4.8 | 3.3 | 4.9 | 3.0 |
| | 37.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.7 | 3.2 | 4.8 | 3.2 | 4.9 | 3.0 |
| | 39.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.6 | 3.2 | 4.7 | 3.2 | 4.8 | 3.0 |

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 12.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.2 | 4.3 |
| | 14.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.1 | 4.2 |
| | 16.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.0 | 4.2 |
| | 18.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 6.9 | 4.1 |
| | 20.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 6.8 | 4.1 |
| | 21.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 6.8 | 4.0 |
| | 23.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 6.7 | 4.0 |
| | 25.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.5 | 4.2 | 6.6 | 4.0 |
| | 27.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.4 | 4.2 | 6.5 | 3.9 |
| | 29.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.3 | 4.1 | 6.4 | 3.9 |
| | 31.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.2 | 4.1 | 6.3 | 3.9 |
| | 33.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.1 | 4.0 | 6.2 | 3.8 |
| | 35.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.0 | 3.9 | 6.2 | 3.8 |
| | 37.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.8 | 4.0 | 5.9 | 3.9 | 6.1 | 3.8 |
| | 39.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.7 | 4.0 | 5.8 | 3.9 | 6.0 | 3.7 |
| 63 | 10.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.3 | 5.3 |
| | 12.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.1 | 5.2 |
| | 14.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.0 | 5.2 |
| | 16.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 8.9 | 5.1 |
| | 18.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 8.8 | 5.1 |
| | 20.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 8.7 | 5.0 |
| | 21.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 8.6 | 5.0 |
| | 23.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.3 | 5.2 | 8.5 | 5.0 |
| | 25.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.2 | 5.2 | 8.4 | 4.9 |
| | 27.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.1 | 5.1 | 8.3 | 4.9 |
| | 29.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.0 | 5.1 | 8.2 | 4.8 |
| | 31.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 7.9 | 5.0 | 8.0 | 4.8 |
| | 33.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 7.8 | 5.0 | 7.9 | 4.7 |
| | 35.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.0 | 7.6 | 4.9 | 7.8 | 4.7 |
| | 37.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.4 | 5.0 | 7.5 | 4.9 | 7.7 | 4.6 |
| | 39.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.2 | 4.9 | 7.4 | 4.8 | 7.6 | 4.6 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 7.1.2 Heating capacity

### FXD-M

**[50Hz]** **Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| | -12.6 | -13.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -10.5 | -11.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -9.5 | -10.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -8.5 | -9.1 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -7.0 | -7.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -5.0 | -5.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -3.0 | -3.7 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | 0.0 | -0.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 3.0 | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -12.6 | -13.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -10.5 | -11.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | -9.5 | -10.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -8.5 | -9.1 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -7.0 | -7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -5.0 | -5.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -3.0 | -3.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | 0.0 | -0.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 3.0 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -12.6 | -13.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -10.5 | -11.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | -9.5 | -10.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -8.5 | -9.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -7.0 | -7.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -5.0 | -5.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -3.0 | -3.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | 0.0 | -0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 3.0 | 2.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.4 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -12.6 | -13.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -10.5 | -11.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -9.5 | -10.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -8.5 | -9.1 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| | -7.0 | -7.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -5.0 | -5.6 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -3.0 | -3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | 0.0 | -0.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 3.0 | 2.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.5 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.7 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## [50Hz]

**Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -12.6 | -13.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | -10.5 | -11.0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| | -9.5 | -10.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| | -8.5 | -9.1 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | -7.0 | -7.6 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -5.0 | -5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -3.0 | -3.7 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | 0.0 | -0.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 3.0 | 2.2 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.1 | 6.1 | 6.1 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 6.9 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.1 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

## 7.2 60Hz

### 7.2.1 Cooling Capacity

**FXD-M**

**[60Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 12.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 14.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 16.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 18.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 20.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 21.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 23.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 25.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 27.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 29.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 31.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 33.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 35.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.6 | 1.9 |
| | 37.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 |
| | 39.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.5 | 1.9 |
| 25 | 10.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.7 | 2.3 |
| | 12.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.7 | 2.3 |
| | 14.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.7 | 2.3 |
| | 16.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.7 | 2.3 |
| | 18.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.7 | 2.3 |
| | 20.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.7 | 2.3 |
| | 21.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.7 | 2.3 |
| | 23.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.6 | 2.2 |
| | 25.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.6 | 2.2 |
| | 27.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.5 | 2.2 |
| | 29.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.5 | 2.2 |
| | 31.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.4 | 2.2 |
| | 33.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.4 | 2.1 |
| | 35.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.3 | 2.1 |
| | 37.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.1 |
| | 39.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | 3.2 | 2.1 |
| 32 | 10.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 12.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 14.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 16.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 18.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 20.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 21.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 23.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 25.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.6 | 2.8 |
| | 27.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.5 | 2.7 |
| | 29.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.5 | 2.7 |
| | 31.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.4 | 2.7 |
| | 33.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.3 | 2.7 |
| | 35.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.2 | 2.7 | 4.3 | 2.6 |
| | 37.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.1 | 2.7 | 4.2 | 2.6 |
| | 39.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.7 | 3.8 | 2.7 | 4.1 | 2.7 | 4.2 | 2.6 |
| 40 | 10.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.9 | 3.3 |
| | 12.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.9 | 3.3 |
| | 14.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.9 | 3.3 |
| | 16.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.9 | 3.3 |
| | 18.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.9 | 3.3 |
| | 20.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.9 | 3.3 |
| | 21.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.9 | 3.3 |
| | 23.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.8 | 3.3 |
| | 25.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.7 | 3.3 |
| | 27.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.7 | 3.3 |
| | 29.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.6 | 3.2 |
| | 31.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.5 | 3.2 |
| | 33.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.3 | 3.5 | 5.4 | 3.2 |
| | 35.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.2 | 3.4 | 5.4 | 3.2 |
| | 37.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.2 | 3.4 | 5.3 | 3.1 |
| | 39.0 | 3.1 | 2.6 | 3.7 | 2.9 | 4.2 | 3.4 | 4.5 | 3.3 | 4.8 | 3.3 | 5.1 | 3.4 | 5.2 | 3.1 |

## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.3 | 4.4 |
| | 12.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.3 | 4.4 |
| | 14.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.3 | 4.4 |
| | 16.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.3 | 4.4 |
| | 18.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.3 | 4.4 |
| | 20.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.3 | 4.4 |
| | 21.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.3 | 4.4 |
| | 23.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 25.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.2 | 4.3 |
| | 27.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.1 | 4.2 |
| | 29.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 7.0 | 4.1 |
| | 31.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 6.9 | 4.1 |
| | 33.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.6 | 4.3 | 6.8 | 4.0 |
| | 35.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.5 | 4.3 | 6.7 | 4.0 |
| | 37.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.4 | 4.2 | 6.6 | 4.0 |
| | 39.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 4.2 | 5.6 | 4.1 | 5.9 | 4.1 | 6.3 | 4.1 | 6.5 | 3.9 |
| 63 | 10.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.3 | 5.3 |
| | 12.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.3 | 5.3 |
| | 14.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.3 | 5.3 |
| | 16.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.3 | 5.3 |
| | 18.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.3 | 5.3 |
| | 20.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.3 | 5.3 |
| | 21.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.3 | 5.3 |
| | 23.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.2 | 5.3 |
| | 25.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 9.1 | 5.2 |
| | 27.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 8.9 | 5.2 |
| | 29.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 8.8 | 5.1 |
| | 31.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 8.7 | 5.1 |
| | 33.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.4 | 5.3 | 8.6 | 5.0 |
| | 35.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.3 | 5.2 | 8.4 | 4.9 |
| | 37.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.1 | 5.1 | 8.3 | 4.9 |
| | 39.0 | 4.9 | 3.9 | 5.8 | 4.3 | 6.7 | 5.0 | 7.1 | 4.9 | 7.5 | 5.1 | 8.0 | 5.1 | 8.2 | 4.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 7.2.2 Heating capacity

### FXD-M

**[60Hz]** **Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -12.6 | -13.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -10.5 | -11.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -9.5 | -10.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -8.5 | -9.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -7.0 | -7.6 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -5.0 | -5.6 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | -3.0 | -3.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 0.0 | -0.7 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 3.0 | 2.2 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -12.6 | -13.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -10.5 | -11.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -9.5 | -10.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -8.5 | -9.1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -7.0 | -7.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -5.0 | -5.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -3.0 | -3.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 0.0 | -0.7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 3.0 | 2.2 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -12.6 | -13.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -10.5 | -11.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -9.5 | -10.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -8.5 | -9.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -7.0 | -7.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | -5.0 | -5.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| | -3.0 | -3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 0.0 | -0.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 3.0 | 2.2 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.5 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -12.6 | -13.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -10.5 | -11.0 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| | -9.5 | -10.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -8.5 | -9.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -7.0 | -7.6 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| | -5.0 | -5.6 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| | -3.0 | -3.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 0.0 | -0.7 | 4.8 | 4.8 | 4.8 | 4.8 | 4.6 | 4.2 |
| | 3.0 | 2.2 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.6 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## [60Hz]

**Heating Capacity**

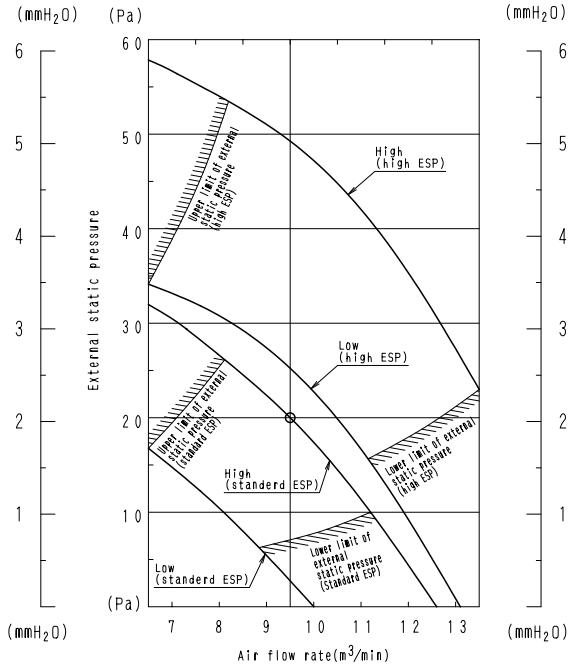
| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | -12.6 | -13.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | -10.5 | -11.0 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -9.5 | -10.0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| | -8.5 | -9.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -7.0 | -7.6 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | -5.0 | -5.6 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.3 |
| | -3.0 | -3.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 0.0 | -0.7 | 6.0 | 6.0 | 6.0 | 6.0 | 5.8 | 5.3 |
| | 3.0 | 2.2 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 7.0 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 7.2 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | -12.6 | -13.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -10.5 | -11.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | -9.5 | -10.0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -8.5 | -9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -7.0 | -7.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| | -5.0 | -5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | -3.0 | -3.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.8 |
| | 0.0 | -0.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.4 | 6.8 |
| | 3.0 | 2.2 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.9 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 9.2 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

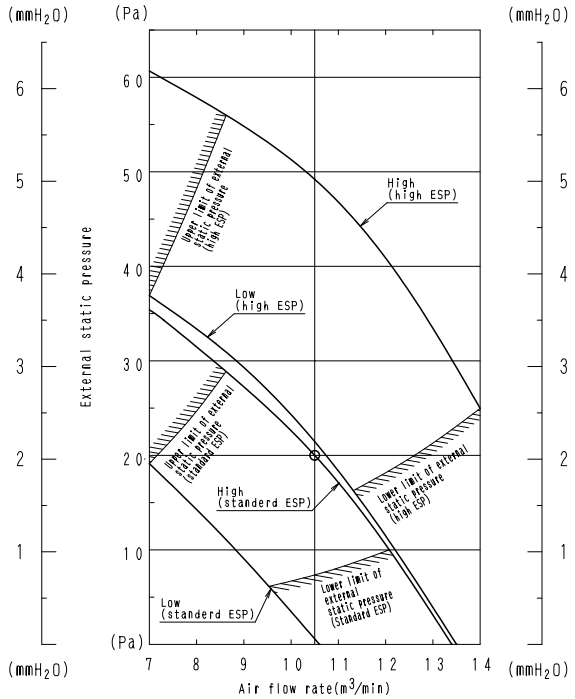
# 8. Fan Performances

**FXD20M / 25MVE**



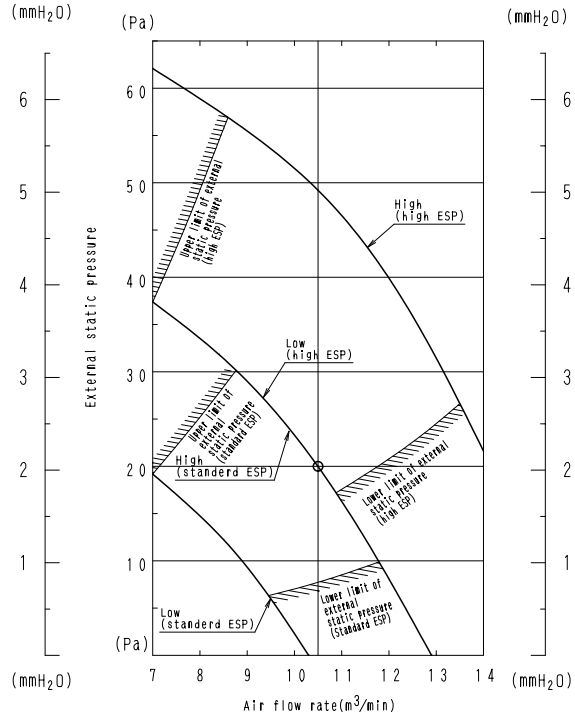

3D043873A

**FXD32MVE**



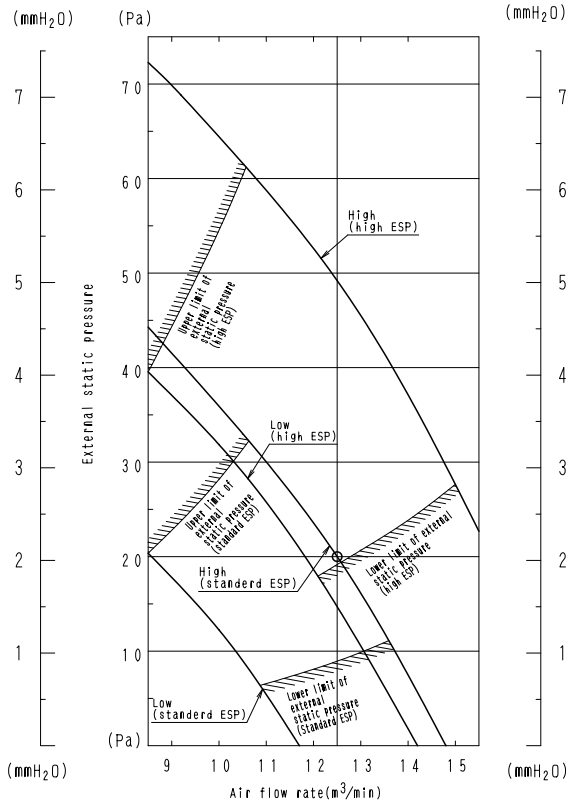

3D043874A

**FXD40MVE**




3D043875A

**FXD50MVE**

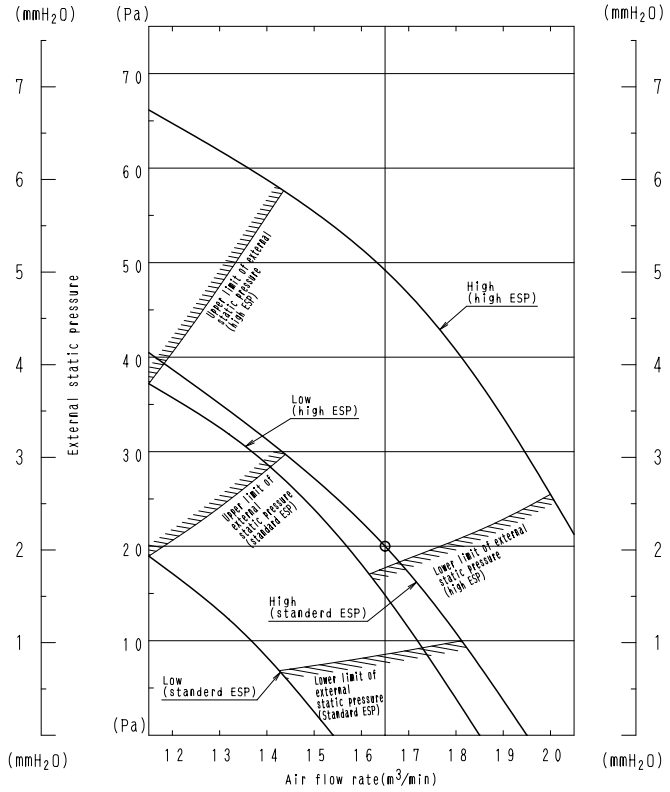



3D043876A

**Notes:**

1. The remote controller can be used to switch between “high” and “low”.
2. The air flow is set to “standard” before leaving the factory.
   It is possible to switch between “standard ESP” and “high ESP” by the remote controller.
3. The external static pressure indicates the fan characteristics when the air filter is not attached.
   Mount the air filter in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.

**FXD63MVE**



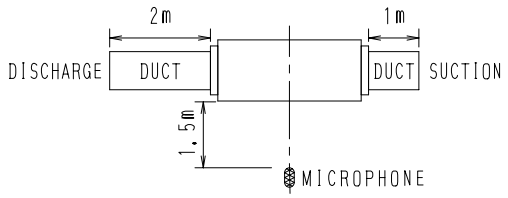

**Notes:**

1. The remote controller can be used to switch between “high” and “low”.
2. The air flow is set to “standard” before leaving the factory.
   It is possible to switch between “standard ESP” and “high ESP” by the remote controller.
3. The external static pressure indicates the fan characteristics when the air filter is not attached.
   Mount the air filter in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.

# 9. Sound Levels

## Overall

■ **Slim Ceiling Mounted Duct Type**




**Notes:**
1. The operating conditions are assumed to be standard (JIS conditions)
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

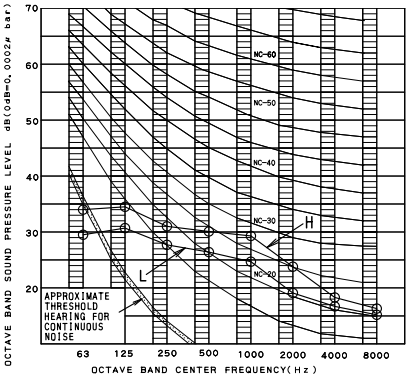
(220 / 240V) dBA

| Model | 50 / 60Hz | |
|---|---|---|
| | H | L |
| FXD20MVE | 33 | 29 |
| FXD25MVE | 33 | 29 |
| FXD32MVE | 33 | 29 |
| FXD40MVE | 34 | 30 |
| FXD50MVE | 35 | 31 |
| FXD63MVE | 36 | 32 |

## Octave Band Level

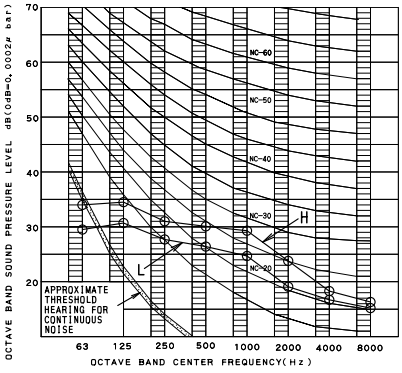
○——○ 220~240V/220V, 50/60Hz

**FXD20MVE**



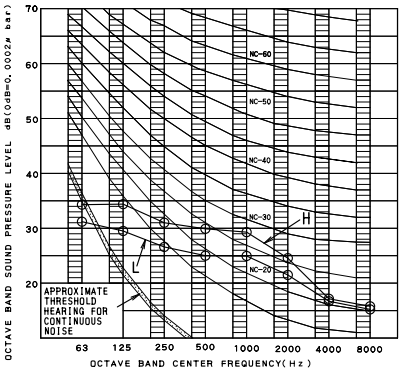

4D044738

**FXD25MVE**



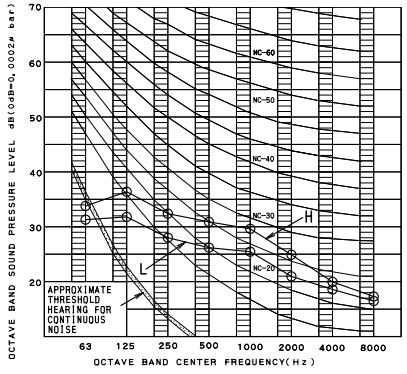

4D044739

**FXD32MVE**



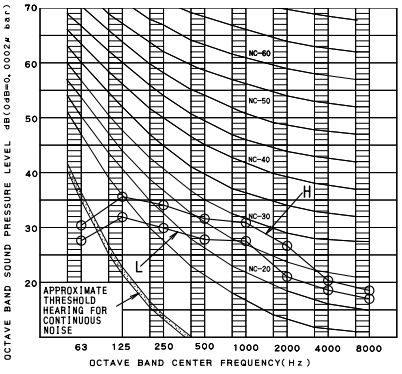

4D044740

**FXD40MVE**



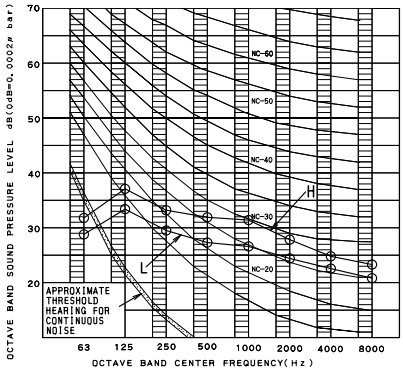

4D044741

**FXD50MVE**




4D044742

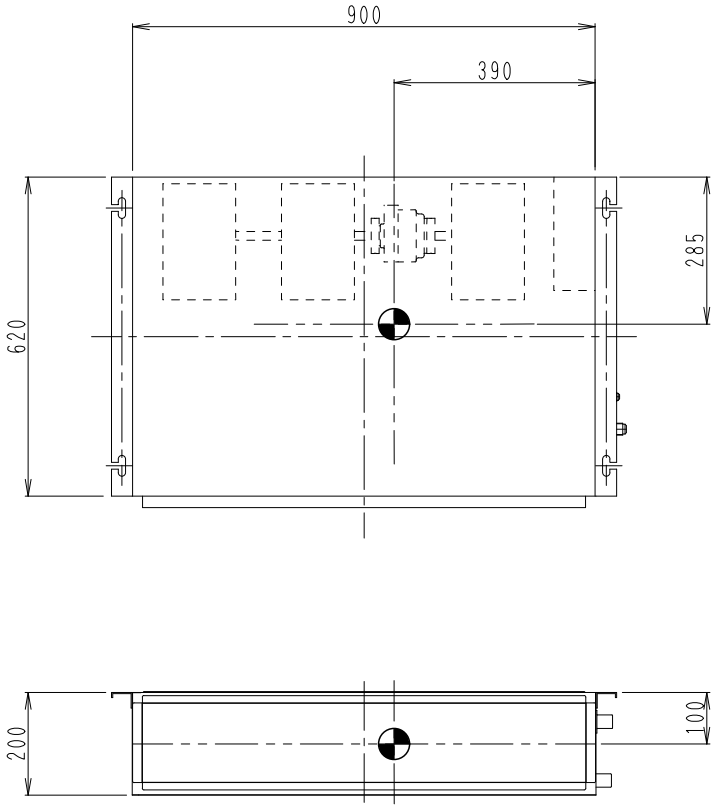
**FXD63MVE**




4D044743

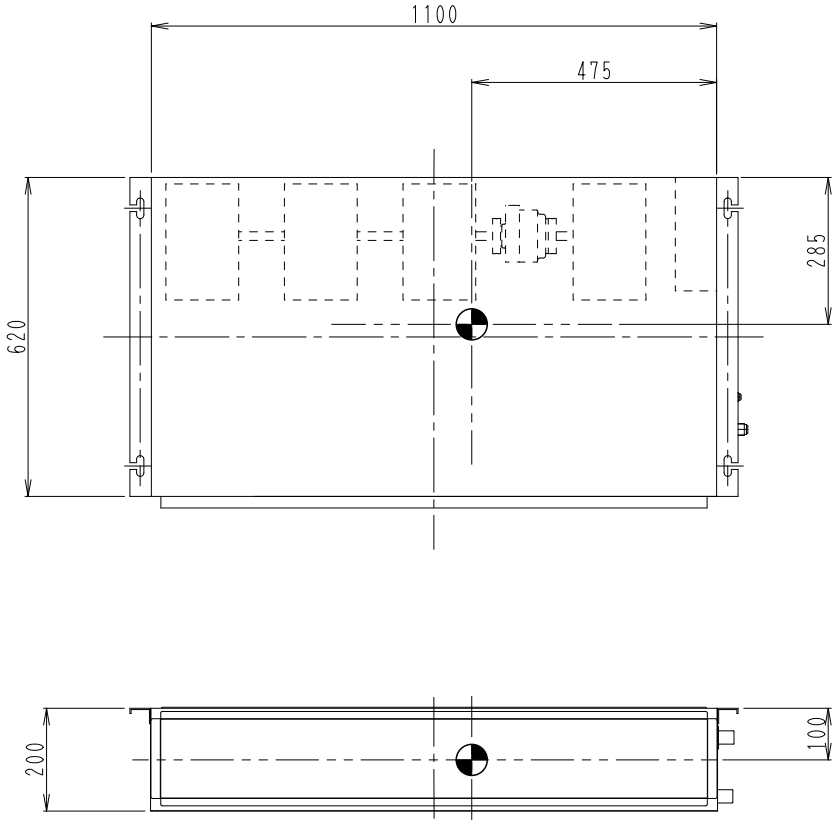
# 10. Installation

**Center of Gravity**
**FXD20M / 25M / 32M / 40M /50MVE**




4D043886A

**FXD63MVE**




4D043887A

## Service Space

1. **Select an installation site where the following conditions are fulfilled and that meets with your customer's approval.**

- Where optimum air distribution can be ensured.
- Where nothing blocks air passage.
- Where condensate can be properly drained.
- Where the ceiling is strong enough to bear the indoor unit weight.
- Where the false ceiling is not noticeably on an incline.
- Where there is no risk of flammable gas leakage.
- Where sufficient clearance for maintenance and service can be ensured. **(Refer to Fig. 1)**
- Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual for the outdoor unit.)



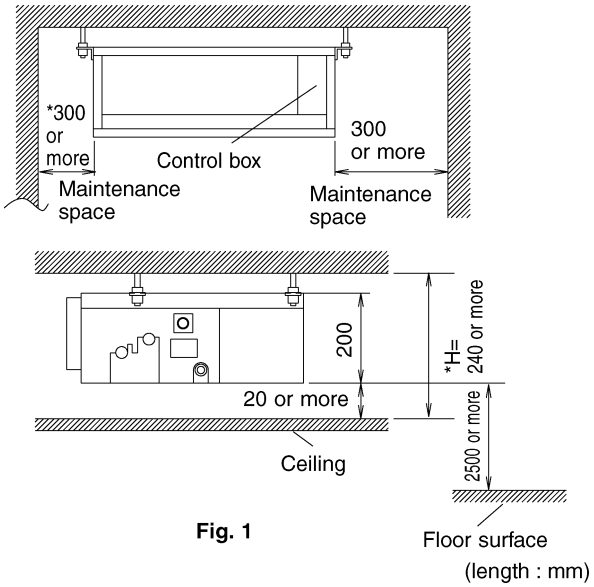



**Fig. 1**

- Select the *H dimension such that a downward slope of at least 1/100 is ensured as indicated in "**7. DRAIN PIPING WORK**".
- The maintenance space marked with "*" is required when the installation box for adaptor PC board (KRP1B101) sold separately is used.

**[ PRECAUTION ]**

- Install the indoor and outdoor units, power supply wiring and connecting wires at least 1 meter away from televisions or radios in order to prevent image interference or noise. (Depending on the radio waves, a distance of 1 meter may not be sufficient enough to eliminate the noise.)
- If installing the wireless kit in a room with electronic fluorescent lighting (inverter or rapid start type), the remote controller's transmission distance may be shortened. Indoor units should be installed as far away from fluorescent lighting as possible.

2. **Use suspension bolts for installation. Check whether the ceiling is strong enough to support the weight of the unit or not. If there is a risk, reinforce the ceiling before installing the unit.**
   (Installation pitch is marked on the carton box for installation. Refer to it to check for points requiring reinforcing.)

## Installation

1. **Confirm the positional relationship between the unit and suspension bolts. (Refer to Fig. 2)**

■ Install the inspection opening on the control box side where maintenance and inspection of the control box and drain pump are easy. Install the inspection opening also in the lower part of the unit.

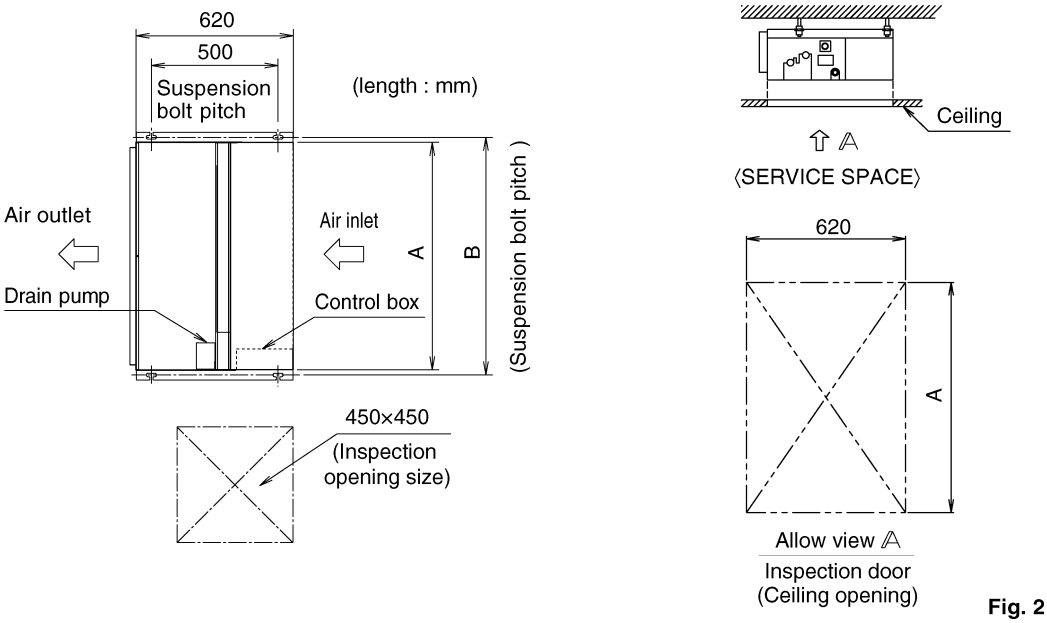



**Fig. 2**

(length: mm)

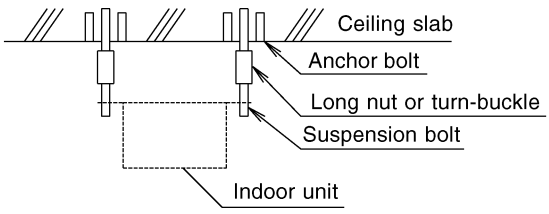
| Model | A | B |
|---|---|---|
| 20 · 25 · 32 · 40 · 50 type | 900 | 940 |
| 63 type | 1100 | 1140 |

2. **Make sure the range of the unit's external static pressure is not exceeded.**
   (See the technical documentation for the range of the external static pressure setting.)
3. **Open the installation hole. (Pre-set ceilings)**

■ Once the installation hole is opened in the ceiling where the unit is to be installed, pass refrigerant piping, drain piping, transmission wiring, and remote controller wiring (unneeded if using a wireless remote controller) to the unit's piping and wiring holes.
See "**6. REFRIGERANT PIPING WORK**", "**7. DRAIN PIPING WORK**", and "**10. WIRING EXAMPLE**".

■ After opening the ceiling hole, make sure ceiling is level if needed. It might be necessary to reinforce the ceiling frame to prevent shaking. Consult an architect or carpenter for details.

4. **Install the suspension bolts.**
   (Use W3/8 to M10 suspension bolts.)
   Use a hole-in-anchor, sunken insert, sunken anchor for existing ceilings, and a sunken insert, sunken anchor or other part to be procured in the field to reinforce the ceiling to bearing the weight of the unit. (**Refer to Fig. 3**)




Note: All the above parts are field supplied.

**Fig. 3**

**5. For bottom intake, replace the chamber lid in the procedure listed in Fig. 4.**

(1) Remove the chamber lid. (7 locations)

(2) Reattached the removed chamber lid in the orientation shown in Fig. 4. (7 locations)

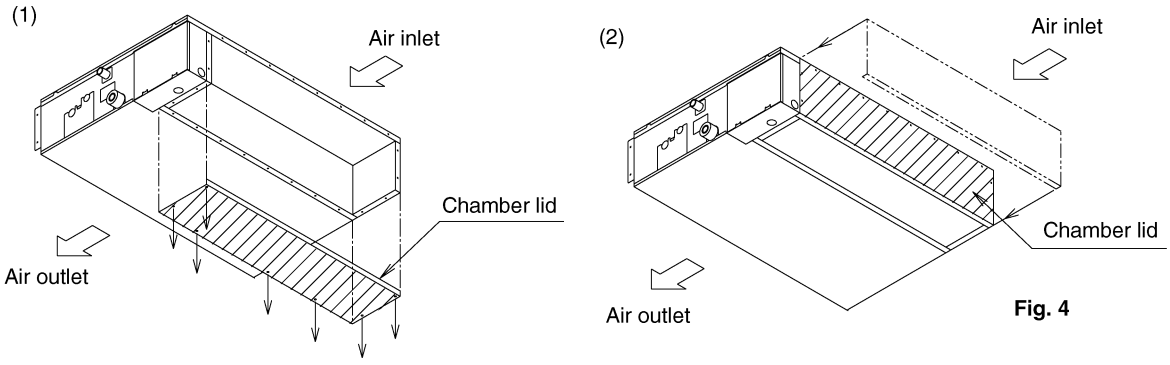



**Fig. 4**

5

## Indoor Unit Installation

**<<As for the parts to be used for installation work, be sure to use the provided accessories and specified parts desig-nated by our company.>>**

**1. Install the indoor unit temporarily.**

■ Attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and washer from the upper and lower sides of the hanger bracket. **(Refer to Fig. 5)**

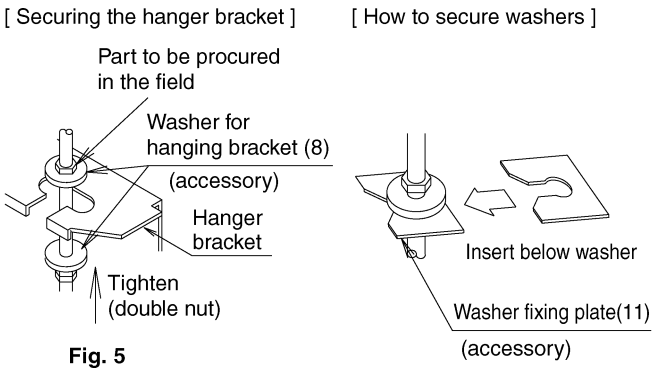


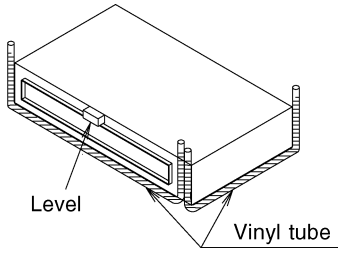

**Fig. 5**

**[ PRECAUTION ]**

Since the unit uses a plastic drain pan, prevent welding spatter and other foreign substances from entering the out-let hole during installation.

**2. Adjust the height of the unit.**

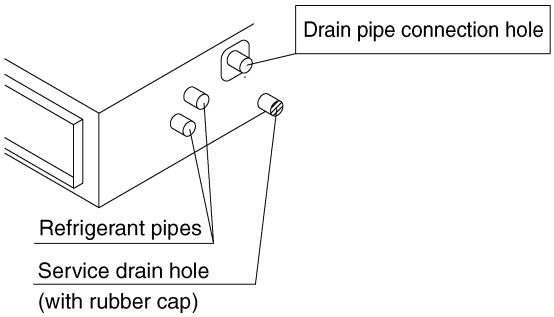
**3. Check the unit is horizontally level.**




**4. Tighten the upper nut.**

## Drain Piping Work

**1. Install the drain piping.**




- Make sure the drain works properly.
- The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe (vinyl tube; pipe size: 20 mm; outer dimension: 26 mm).
  (not including the riser)
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air pockets from forming. **(Refer to Fig. 10)**

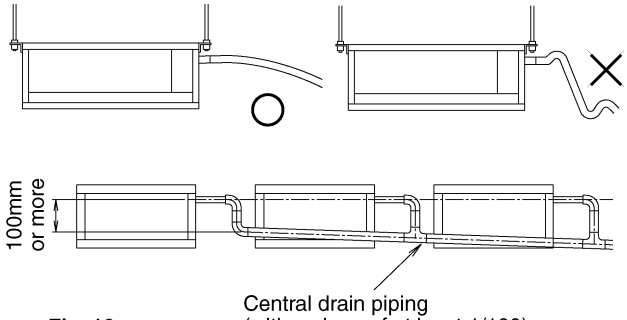



**Fig. 10**

**CAUTION**

**Water accumulating in the drain piping can cause the drain to clog.**

- To keep the drain tube from sagging, space hanging wires every 1 to 1.5 m.
- Use the drain hose (2) and the metal clamp (1). Insert the drain hose (2) fully into the drain socket and firmly tighten the metal clamp (1) with the upper part of the tape on the hose end. Tighten the metal clamp (1) until the screw head is less than 4 mm from the hose. **(Refer to Fig. 11, 12)**
- The two areas below should be insulated because condensation may form there causing water to leak.
  - Drain piping passing indoors
  - Drain sockets

  Referring the figure below, insulate the metal clamp (1) and drain hose (2) using the included large sealing pad (5). **(Refer to Fig. 12)**

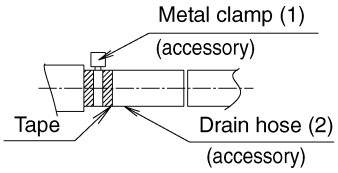



**Fig. 11**

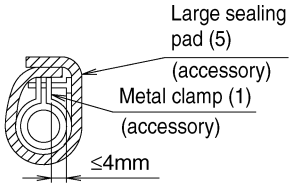



**Fig. 12**

**<PRECAUTIONS FOR DRAIN RAISING PIPING >**

- Make sure the drain raising piping height is no higher than 600mm.
- Place the drain raising piping vertically and make sure it is no further than 300mm from the unit. **(Refer to Fig. 13)**

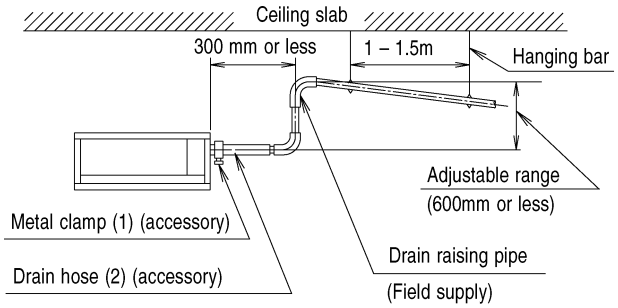



**Fig. 13**

**<PRECAUTIONS>**

Drain piping connections

- Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.
- Do not twist or bend the drain hose (2), so that excessive force is not applied to it. (This type of treatment may cause leaking.)
- If you are using central drain piping, follow the procedure outlined in the figure 10.
- Select central drain pipes of proper size according to the capacity of the connected unit.

**2. After piping work is finished, check drainage flows smoothly.**

- Gradually insert approximately 1000 cc of water into the drain pan to check drainage in the manner described below.

**CAUTION**

- The electric wiring work shall be performed by qualified electricians.
- If workers not having the electrician qualification have per-formed the electric wiring work, the steps 3 to 7 shall be performed after the **TEST RUN**.

1. Remove the lid of the control box. Connect the remote control-ler and power supply (single-phase, 50 Hz 220-240 V or single-phase, 60Hz 220V) respectively to the terminal block and securely connect the ground also.(as shown in the figure below).

**CAUTION**

Securely clamp the cables with the clamps (9)(10) offered as accessories as shown in Fig. 14 so that ten-sion will not be applied on the cable connection areas.

2. Confirm that the lid of the control box is closed before turning on the power.
3. Remove the inspection lid.
4. Gradually pour approximately 1,000 cc of water from the water inlet into the drain pan to check drainage.

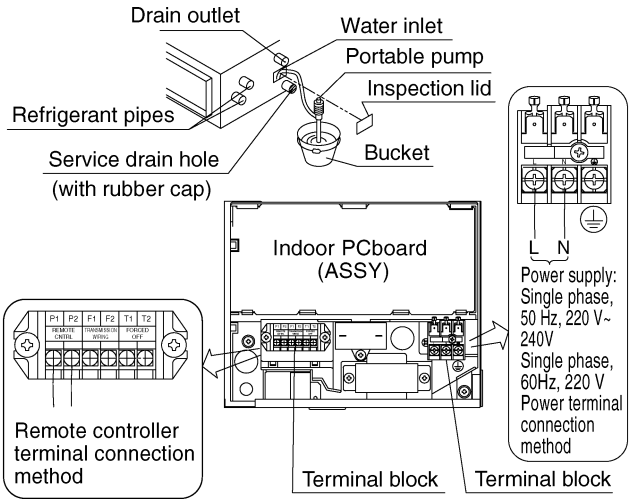
**CAUTION**

Be sure to prevent an external force from being exerted on the float switch. (This may cause breakage.)

5. Attach the inspection lid.
6. Perform the following operation using the remote control-ler, and check drainage.
   - Select the inspection/test operation button " TEST " using the remote controller. The unit will engage the test operation. Press the operation selector button " ", and select FAN OPERATION " ".
   - Press the ON/OFF button " ". (The indoor fan anddrain pump will operate.)

**CAUTION**

The fan will turn also at the same time. Take due care.



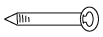

7. Make sure to use the remote controller in finishing the operation.

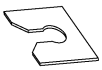
# 11. Accessories

## Standard Accessories

**Check the following accessories are included with your unit.**

| Name | Metal clamp (1) | Drain hose (2) | Insulation for fitting | Sealing pad |
|---|---|---|---|---|
| Quantity | 1 pc. | 1 pc. | 1 each | 1 each |
| Shape | | | for liquid pipe (3) for gas pipe (4) | Large (5) mid. (6) |

| Name | Screws for duct flanges (7) | Washer for hanging bracket (8) | Clamp |
|---|---|---|---|
| Quantity | 1 set | 8 pcs. | 1 set |
| Shape | 24 pcs. | |  Large (9) 8 pcs. small (10) 4 pcs. |

| Name | Washer fixing plate (11) | Sealing material (12) | (Other) ■ Operation manual ■ Warranty ■ Product quality certificate |
|---|---|---|---|
| Quantity | 4 pcs. | 2 pcs. | |
| Shape |  | | |

## Optional Accessories (For Unit)

| No. | Type / Item | FXD20MVE | FXD25MVE | FXD32MVE | FXD40MVE | FXD50MVE | FXD63MVE |
|---|---|---|---|---|---|---|---|
| 1 | Insulation Kit for high humidity | KDT25M50 | | | | | KDT25M63 |

## Optional Accessories (For Controls) Refer to P484.

# FXYD-KA
# Ceiling Mounted
# Low Silhouette Duct Type

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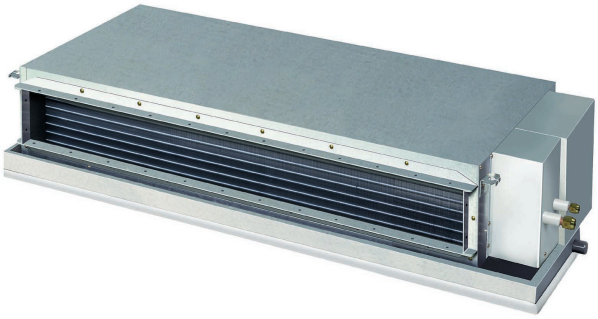
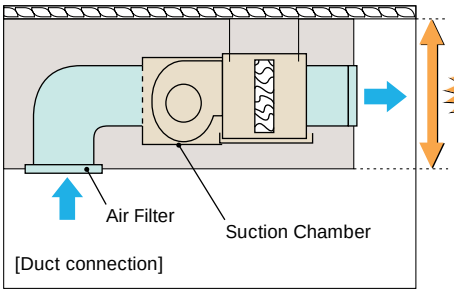
# 1. Features



## Fits beautifully into false ceilings. Quiet operation perfect for rooms where atmosphere is important.

- Quiet operation
- Flat design for easy fit when ceiling overhead space is minimal.
- Hook positions have been switched from rear of unit to the side for easier duct connection work when rear suction is preferred.
- Duct can be connected to intake side. (Suction chamber is included as standard equipment.)




*To prevent increase in operation noise, avoid installing the Air suction grille directly below the Suction chamber.

**Blends in beautifully with hotel rooms**

Note: ¥ Drain pumps not applicable.
¥ Procure air filter in the field according to installation conditions.

# 2. Specifications

## Ceiling Mounted Low Silhouette Duct Type

| ★6 Model | | | FXYD20KAVE | FXYD25KAVE | FXYD32KAVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 2,000 | 2,500 | 3,150 |
| | | Btu/h | 7,900 | 9,900 | 12,500 |
| | | kW | 2.3 | 2.9 | 3.7 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 2.2 | 2.8 | 3.6 |
| ★3 Heating Capacity | | kcal/h | 2,200 | 2,800 | 3,400 |
| | | Btu/h | 8,500 | 10,900 | 13,600 |
| | | kW | 2.5 | 3.2 | 4.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 260×900×580 | 260×900×580 | 260×900×580 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 2×10×1.75 | 2×10×1.75 | 2×10×1.75 |
| | Face Area | m² | 0.147 | 0.147 | 0.147 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 45×1 | 45×1 | 45×1 |
| | Air Flow Rate (H/L) | m³/min | 12/11 | 12/11 | 12/11 |
| | | cfm | 424/388 | 424/388 | 424/388 |
| | External Static Pressure | Pa | 49 | 49 | 49 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Regulator | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Form Polyethylene | Form Polyethylene | Form Polyethylene |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) |
| | Drain Pipe | in. | 3/4B | 3/4B | 3/4B |
| Machine Weight | | kg | 23 | 23 | 23 |
| ★5 Sound Level (H/L) | | dBA | 38/35 | 38/35 | 38/35 |
| Safety Devices | | | Fuse<br>Thermal Protector for Fan Motor | Fuse<br>Thermal Protector for Fan Motor | Fuse<br>Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable Outdoor Unit | | | R22 : K or M Series | R22 : K or M Series | R22 : K or M Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges. | Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges. | Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges. |
| Drawing No. | | | C : 3D024660 | | |

### Notes:

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
When the place of suction is changed to the bottom suction, the sound level will increase by approx. 5 dBA.
★6 Model name for other country

| For General Country | FXYD20KAVE | FXYD25KAVE | FXYD32KAVE |
|---|---|---|---|
| For Thailand | FXYD20KVES | FXYD25KVES | FXYD32KVES |

7 Refer to page 212 for Fan Motor Input.

## Ceiling Mounted Low Silhouette Duct Type

| ★6 **Model** | | | **FXYD40KAVE** | **FXYD50KAVE** | **FXYD63KAVE** |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 4,000 | 5,000 | 6,300 |
| | | Btu/h | 15,900 | 19,900 | 25,000 |
| | | kW | 4.7 | 5.8 | 7.3 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 4.5 | 5.6 | 7.1 |
| ★3 Heating Capacity | | kcal/h | 4,300 | 5,400 | 6,900 |
| | | Btu/h | 17,000 | 21,500 | 27,300 |
| | | kW | 5.0 | 6.3 | 8.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 260×900×580 | 260×1,300×580 | 260×1,300×580 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×10×1.75 | 2×10×1.75 | 3×10×1.75 |
| | Face Area | m² | 0.147 | 0.231 | 0.231 |
| Fan | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 45×1 | 65×1 | 65×1 |
| | Air Flow Rate (H/L) | m³/min | 12/11 | 17/15 | 17/15 |
| | | cfm | 424/388 | 600/530 | 600/530 |
| | External Static Pressure | Pa | 49 | 49 | 49 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Form Polyethylene | Form Polyethylene | Form Polyethylene |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) |
| | Drain Pipe | in. | 3/4B | 3/4B | 3/4B |
| Machine Weight | | kg | 24 | 31 | 32 |
| ★5 Sound Level (H/L) | | dBA | 38/35 | 41/38 | 41/38 |
| Safety Devices | | | Fuse<br>Thermal Protector for Fan Motor | Fuse<br>Thermal Protector for Fan Motor | Fuse<br>Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable Outdoor Unit | | | R22 : K or M Series | R22 : K or M Series | R22 : K or M Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges. | Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges. | Operation Manual, Installation Manual, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws for Duct Flanges. |
| Drawing No. | | | C : 3D024660 | | |

### Notes:

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

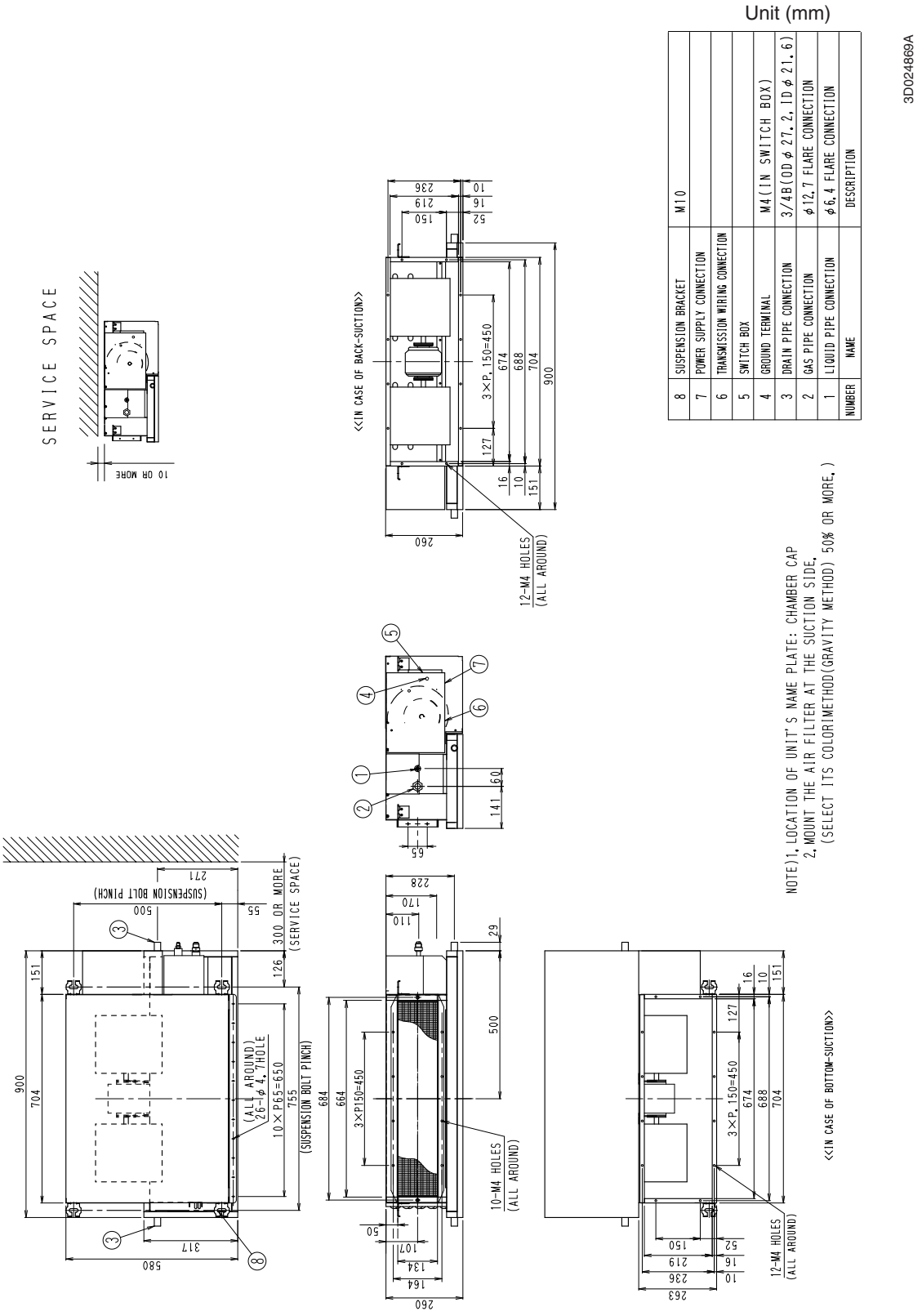
★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
When the place of suction is changed to the bottom suction, the sound level will increase by approx. 5 dBA.
★6 Model name for other country

| For General Country | FXYD40KAVE | FXYD50KAVE | FXYD63KAVE |
|---|---|---|---|
| For Thailand | FXYD40KVES | FXYD50KVES | FXYD63KVES |

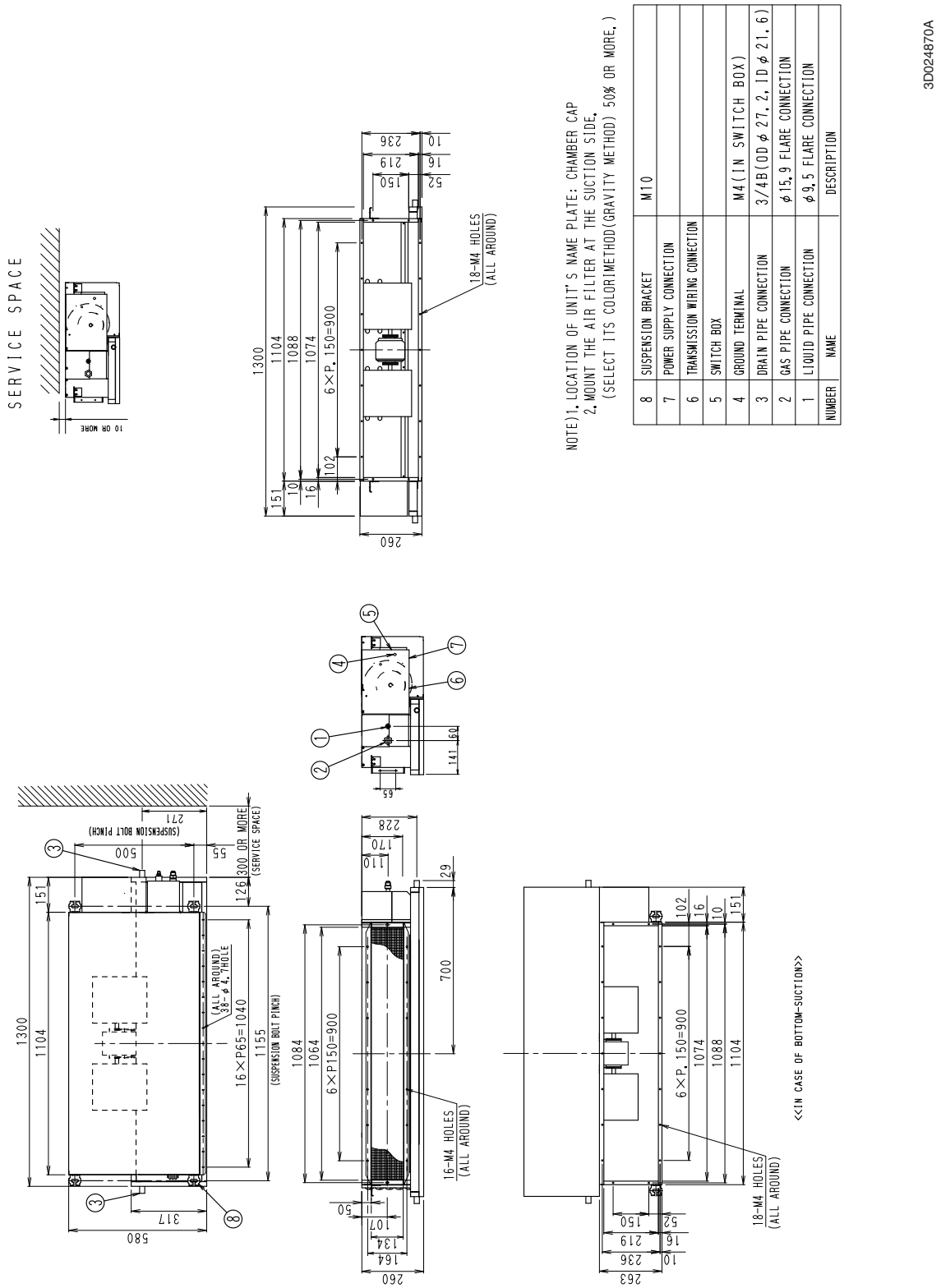
7 Refer to page 212 for Fan Motor Input.

# 3. Dimensions

**FXYD20KAVE**
**FXYD25KAVE**
**FXYD32KAVE**
**FXYD40KAVE**

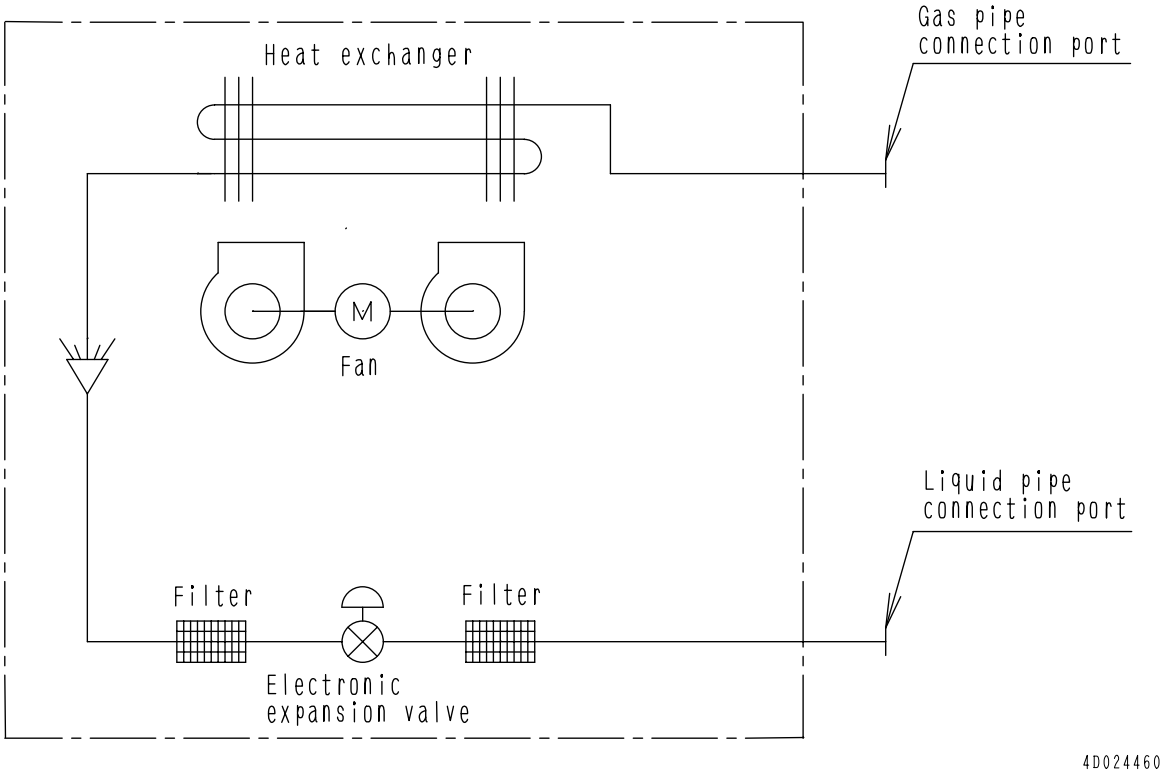


## FXYD50KAVE
## FXYD63KAVE




| NUMBER | NAME | DESCRIPTION |
|---|---|---|
| 8 | SUSPENSION BRACKET | M10 |
| 7 | POWER SUPPLY CONNECTION | |
| 6 | TRANSMISSION WIRING CONNECTION | |
| 5 | SWITCH BOX | |
| 4 | GROUND TERMINAL | M4(IN SWITCH BOX) |
| 3 | DRAIN PIPE CONNECTION | 3/4B(OD φ 27.2, ID φ 21.6) |
| 2 | GAS PIPE CONNECTION | φ 15.9 FLARE CONNECTION |
| 1 | LIQUID PIPE CONNECTION | φ 9.5 FLARE CONNECTION |

# 4. Piping Diagrams



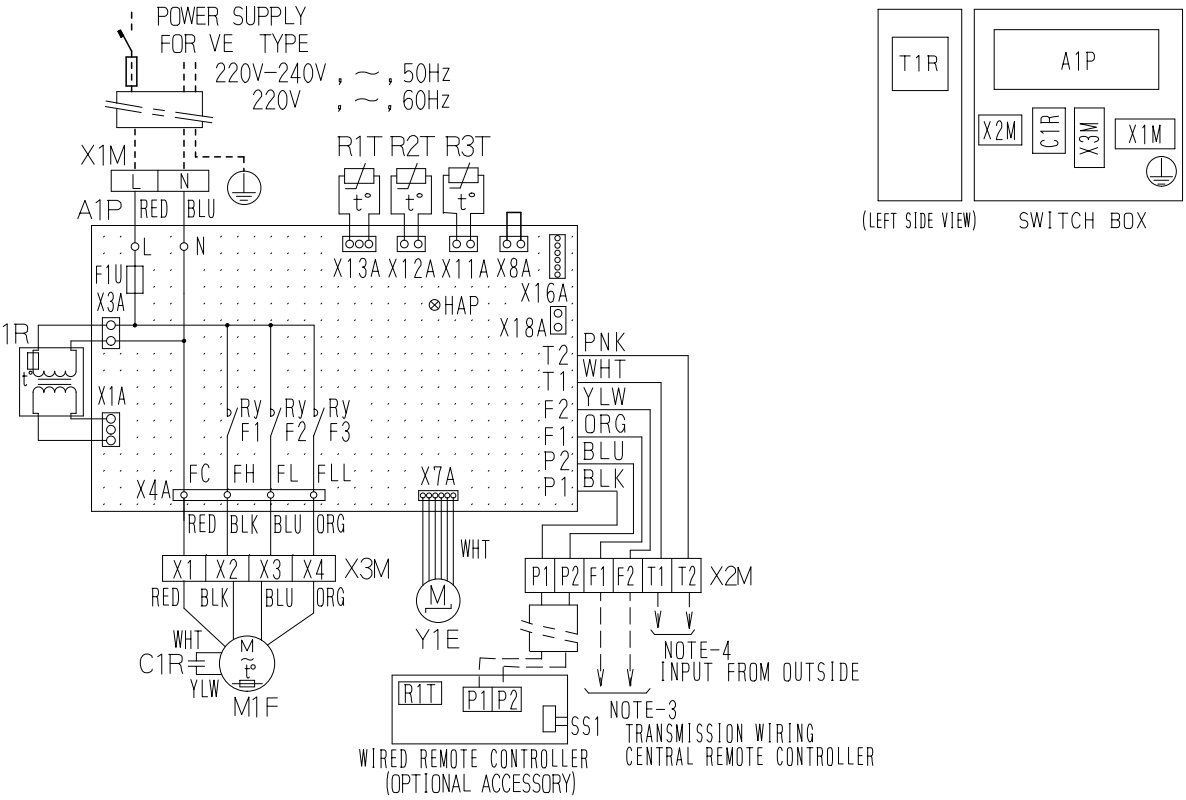

■ **Refrigerant pipe connection port diameters**

(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXYD20KAVE / 25KAVE / 32KAVE / 40KAVE | ϕ12.7 | ϕ6.4 |
| FXYD50KAVE / 63KAVE | ϕ15.9 | ϕ9.5 |

# 5. Wiring Diagrams

**FXYD20KAVE / 25KAVE / 32KAVE / 40KAVE / 50KAVE / 63KAVE**




| | |
|---|---|
| A1P | PRINTED CIRCUIT BOARD |
| C1R | CAPACITOR (M1F) |
| F1T | THERMAL FUSE (M1F EMBEDDED) (135±5℃:OFF、95±15℃:ON) |
| F1U | FUSE (250V,10A) |
| HAP | LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN) |
| M1F | MOTOR (INDOOR FAN) |
| R1T | THERMISTOR(AIR) |
| R2T•3T | THERMISTOR(COIL) |
| RyF1-3 | MAGNETIC RELAY(M1F) |
| T1R | TRANSFOMER(220-240V/22V) |
| X1M | TERMINAL STRIP(POWER) |
| X2M | TERMINAL STRIP(CONTROL) |
| X3M | TERMINAL STRIP |
| Y1E | ELECTRONIC EXPANSION VALVE |
| CONNECTOR FOR OPTIONAL PARTS | |
| X16A | CONNECTOR(ADAPTOR FOR WIRING) |
| X18A | CONNECTOR(WIRING ADAPTOR FOR ELECTRICAL APPENDICES) |
| WIRED REMOTE CONTROLLER | |
| R1T | THERMISTOR(AIR) |
| SS1 | SELECTOR SWITCH(MAIN/SUB) |
| L-RED | N-BLUE |

NOTES)

1. ⊏⊐⊐⊐ : TERMINAL —○— : WIRE CLAMP
   ⊏○○⊐ : CONNECTOR ⊏○⊐ : JUMPER CONNECTOR
2. ---- : FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER, IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
5. SYMBOLS SHOW AS FOLLOWS. (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN)
6. USE COPPER CONDUCTORS ONLY.

3D024108A

# 6. Capacity Tables

## 6.1 50Hz

### 6.1.1 Cooling Capacity

**FXYD – KA**

**[50Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.1 |
| | 12.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 14.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 16.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 18.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 |
| | 20.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 21.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 23.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.6 | 1.9 |
| | 25.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 |
| | 27.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 |
| | 29.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.5 | 1.9 |
| | 31.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.8 |
| | 33.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.8 |
| | 35.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.4 | 1.8 |
| | 37.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.3 | 1.9 | 2.4 | 1.8 |
| | 39.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.2 | 1.9 | 2.3 | 1.8 | 2.3 | 1.8 |
| 25 | 10.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.4 |
| | 12.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.6 | 2.4 |
| | 14.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.6 | 2.4 |
| | 16.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 |
| | 18.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.5 | 2.3 |
| | 20.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.4 | 2.3 |
| | 21.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.4 | 2.3 |
| | 23.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.4 | 2.2 |
| | 25.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.2 | 2.4 | 3.3 | 2.2 |
| | 27.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.2 | 2.3 | 3.3 | 2.2 |
| | 29.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.1 | 2.3 | 3.2 | 2.2 |
| | 31.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.1 | 2.3 | 3.2 | 2.2 |
| | 33.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.1 | 2.2 | 3.1 | 2.2 |
| | 35.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 2.9 | 2.3 | 3.0 | 2.2 | 3.1 | 2.1 |
| | 37.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 2.9 | 2.3 | 3.0 | 2.2 | 3.0 | 2.1 |
| | 39.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 2.9 | 2.3 | 2.9 | 2.2 | 3.0 | 2.1 |
| 32 | 10.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.0 |
| | 12.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 |
| | 14.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.6 | 2.9 |
| | 16.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.5 | 2.9 |
| | 18.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.5 | 2.9 |
| | 20.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.4 | 2.8 |
| | 21.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.4 | 2.8 |
| | 23.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.2 | 2.9 | 4.3 | 2.8 |
| | 25.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.2 | 2.9 | 4.3 | 2.7 |
| | 27.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.1 | 2.9 | 4.2 | 2.7 |
| | 29.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.0 | 2.8 | 4.1 | 2.7 |
| | 31.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.0 | 2.8 | 4.1 | 2.6 |
| | 33.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 3.9 | 2.8 | 4.0 | 2.6 |
| | 35.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.8 | 3.9 | 2.7 | 4.0 | 2.6 |
| | 37.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.7 | 2.8 | 3.8 | 2.7 | 3.9 | 2.6 |
| | 39.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.9 | 3.7 | 2.8 | 3.8 | 2.7 | 3.8 | 2.5 |

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 40 | 10.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 12.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.8 | 3.7 |
| | 14.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.7 | 3.6 |
| | 16.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.6 | 3.6 |
| | 18.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.6 | 3.5 |
| | 20.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.5 | 3.5 |
| | 21.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.5 | 3.4 |
| | 23.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.6 | 5.4 | 3.4 |
| | 25.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.2 | 3.6 | 5.3 | 3.4 |
| | 27.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.1 | 3.5 | 5.2 | 3.4 |
| | 29.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.1 | 3.5 | 5.2 | 3.3 |
| | 31.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.0 | 3.4 | 5.1 | 3.3 |
| | 33.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 4.9 | 3.4 | 5.0 | 3.3 |
| | 35.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.7 | 3.5 | 4.8 | 3.4 | 4.9 | 3.2 |
| | 37.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.7 | 3.5 | 4.8 | 3.4 | 4.9 | 3.2 |
| | 39.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.6 | 3.5 | 4.7 | 3.3 | 4.8 | 3.2 |
| 50 | 10.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.3 | 4.6 |
| | 12.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.2 | 4.5 |
| | 14.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.1 | 4.5 |
| | 16.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.0 | 4.4 |
| | 18.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 6.9 | 4.4 |
| | 20.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 6.8 | 4.3 |
| | 21.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 6.8 | 4.3 |
| | 23.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 6.7 | 4.2 |
| | 25.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.5 | 4.4 | 6.6 | 4.2 |
| | 27.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.4 | 4.3 | 6.5 | 4.2 |
| | 29.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.3 | 4.3 | 6.4 | 4.1 |
| | 31.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.2 | 4.3 | 6.3 | 4.1 |
| | 33.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.1 | 4.2 | 6.2 | 4.1 |
| | 35.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.0 | 4.2 | 6.2 | 4.0 |
| | 37.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.8 | 4.2 | 5.9 | 4.1 | 6.1 | 4.0 |
| | 39.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.7 | 4.2 | 5.8 | 4.1 | 6.0 | 4.0 |
| 63 | 10.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.7 |
| | 12.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.1 | 5.6 |
| | 14.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.0 | 5.5 |
| | 16.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 8.9 | 5.5 |
| | 18.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 8.8 | 5.4 |
| | 20.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 8.7 | 5.3 |
| | 21.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 8.6 | 5.3 |
| | 23.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.3 | 5.4 | 8.5 | 5.2 |
| | 25.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.2 | 5.3 | 8.4 | 5.2 |
| | 27.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.1 | 5.2 | 8.3 | 5.1 |
| | 29.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.0 | 5.2 | 8.2 | 5.1 |
| | 31.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 7.9 | 5.1 | 8.0 | 5.0 |
| | 33.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 7.8 | 5.0 | 7.9 | 5.0 |
| | 35.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 7.6 | 5.0 | 7.8 | 4.9 |
| | 37.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.4 | 5.2 | 7.5 | 4.9 | 7.7 | 4.9 |
| | 39.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.3 | 7.2 | 5.2 | 7.4 | 4.9 | 7.6 | 4.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

## 6.1.2 Heating Capacity

### FXYD – KA

**[50Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp. : °CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| | -12.6 | -13.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -10.5 | -11.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -9.5 | -10.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -8.5 | -9.1 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -7.0 | -7.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -5.0 | -5.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -3.0 | -3.7 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | 0.0 | -0.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 3.0 | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -12.6 | -13.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -10.5 | -11.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | -9.5 | -10.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -8.5 | -9.1 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -7.0 | -7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -5.0 | -5.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -3.0 | -3.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | 0.0 | -0.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 3.0 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -12.6 | -13.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -10.5 | -11.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | -9.5 | -10.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -8.5 | -9.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -7.0 | -7.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -5.0 | -5.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -3.0 | -3.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | 0.0 | -0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 3.0 | 2.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.4 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |

## [50Hz]

**Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp. : °CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 40 | -14.7 | -15.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -12.6 | -13.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -10.5 | -11.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -9.5 | -10.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -8.5 | -9.1 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| | -7.0 | -7.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -5.0 | -5.6 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -3.0 | -3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | 0.0 | -0.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 3.0 | 2.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.5 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.7 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| 50 | -14.7 | -15.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -12.6 | -13.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | -10.5 | -11.0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| | -9.5 | -10.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| | -8.5 | -9.1 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | -7.0 | -7.6 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -5.0 | -5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -3.0 | -3.7 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | 0.0 | -0.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 3.0 | 2.2 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.1 | 6.1 | 6.1 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 6.9 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.1 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

# 6.2 60Hz

## 6.2.1 Cooling Capacity

### FXYD – KA

**[60Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.1 |
| | 12.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.1 |
| | 14.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.1 |
| | 16.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.1 |
| | 18.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.1 |
| | 20.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.1 |
| | 21.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.1 |
| | 23.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 |
| | 25.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 27.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 29.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 2.0 |
| | 31.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.1 | 2.7 | 2.0 |
| | 33.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.1 | 2.7 | 2.0 |
| | 35.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.6 | 1.9 |
| | 37.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 |
| | 39.0 | 1.5 | 1.5 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 2.0 | 2.5 | 2.0 | 2.5 | 1.9 |
| 25 | 10.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.5 |
| | 12.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.5 |
| | 14.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.5 |
| | 16.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.5 |
| | 18.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.5 |
| | 20.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.5 |
| | 21.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.7 | 2.5 |
| | 23.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.6 | 2.4 |
| | 25.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.6 | 2.4 |
| | 27.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 |
| | 29.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.5 | 2.4 |
| | 31.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.4 | 2.4 |
| | 33.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.4 | 2.3 |
| | 35.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.3 | 2.4 | 3.3 | 2.3 |
| | 37.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.2 | 2.4 | 3.3 | 2.3 |
| | 39.0 | 1.9 | 1.8 | 2.3 | 2.0 | 2.6 | 2.3 | 2.8 | 2.3 | 3.0 | 2.3 | 3.2 | 2.4 | 3.2 | 2.3 |
| 32 | 10.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.0 |
| | 12.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.0 |
| | 14.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.0 |
| | 16.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.0 |
| | 18.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.0 |
| | 20.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.0 |
| | 21.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.0 |
| | 23.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.0 |
| | 25.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 |
| | 27.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.5 | 2.9 |
| | 29.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.5 | 2.9 |
| | 31.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.4 | 2.9 |
| | 33.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.3 | 3.0 | 4.3 | 2.8 |
| | 35.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.2 | 3.0 | 4.3 | 2.8 |
| | 37.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.8 | 3.8 | 2.9 | 4.1 | 2.9 | 4.2 | 2.8 |
| | 39.0 | 2.5 | 2.2 | 2.9 | 2.5 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.1 | 2.9 | 4.2 | 2.7 |

## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 40 | 10.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 12.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 14.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 16.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 18.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 20.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 21.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 23.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.8 | 3.7 |
| | 25.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.7 | 3.7 |
| | 27.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.7 | 3.6 |
| | 29.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.6 | 3.6 |
| | 31.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.5 | 3.6 |
| | 33.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.5 | 5.3 | 3.7 | 5.4 | 3.5 |
| | 35.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.6 | 5.2 | 3.7 | 5.4 | 3.5 |
| | 37.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.6 | 5.2 | 3.6 | 5.3 | 3.5 |
| | 39.0 | 3.1 | 2.8 | 3.7 | 3.1 | 4.2 | 3.4 | 4.5 | 3.5 | 4.8 | 3.6 | 5.1 | 3.6 | 5.2 | 3.5 |
| 50 | 10.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.3 | 4.6 |
| | 12.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.3 | 4.6 |
| | 14.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.3 | 4.6 |
| | 16.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.3 | 4.6 |
| | 18.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.3 | 4.6 |
| | 20.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.3 | 4.6 |
| | 21.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.3 | 4.6 |
| | 23.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.3 | 4.6 |
| | 25.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.2 | 4.5 |
| | 27.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.1 | 4.5 |
| | 29.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 7.0 | 4.5 |
| | 31.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.5 | 6.9 | 4.4 |
| | 33.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.6 | 4.6 | 6.8 | 4.4 |
| | 35.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.3 | 6.5 | 4.5 | 6.7 | 4.4 |
| | 37.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.4 | 6.4 | 4.5 | 6.6 | 4.3 |
| | 39.0 | 3.9 | 3.4 | 4.6 | 3.8 | 5.3 | 4.2 | 5.6 | 4.3 | 5.9 | 4.4 | 6.3 | 4.4 | 6.5 | 4.3 |
| 63 | 10.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.7 |
| | 12.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.7 |
| | 14.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.7 |
| | 16.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.7 |
| | 18.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.7 |
| | 20.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.7 |
| | 21.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.3 | 5.7 |
| | 23.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.2 | 5.6 |
| | 25.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 9.1 | 5.6 |
| | 27.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.4 | 8.9 | 5.5 |
| | 29.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.5 | 8.8 | 5.5 |
| | 31.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.5 | 8.7 | 5.4 |
| | 33.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.4 | 5.5 | 8.6 | 5.4 |
| | 35.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.4 | 8.3 | 5.4 | 8.4 | 5.3 |
| | 37.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.4 | 8.1 | 5.3 | 8.3 | 5.3 |
| | 39.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.3 | 7.5 | 5.4 | 8.0 | 5.3 | 8.2 | 5.2 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

## 6.2.2 Heating Capacity

### FXYD – KA

**[60Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp. : °CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -12.6 | -13.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -10.5 | -11.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -9.5 | -10.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -8.5 | -9.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -7.0 | -7.6 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -5.0 | -5.6 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | -3.0 | -3.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 0.0 | -0.7 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 3.0 | 2.2 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -12.6 | -13.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -10.5 | -11.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -9.5 | -10.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -8.5 | -9.1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -7.0 | -7.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -5.0 | -5.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -3.0 | -3.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 0.0 | -0.7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 3.0 | 2.2 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -12.6 | -13.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -10.5 | -11.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -9.5 | -10.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -8.5 | -9.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -7.0 | -7.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | -5.0 | -5.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| | -3.0 | -3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 0.0 | -0.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 3.0 | 2.2 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.5 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |

## [60Hz]

**Heating capacity**

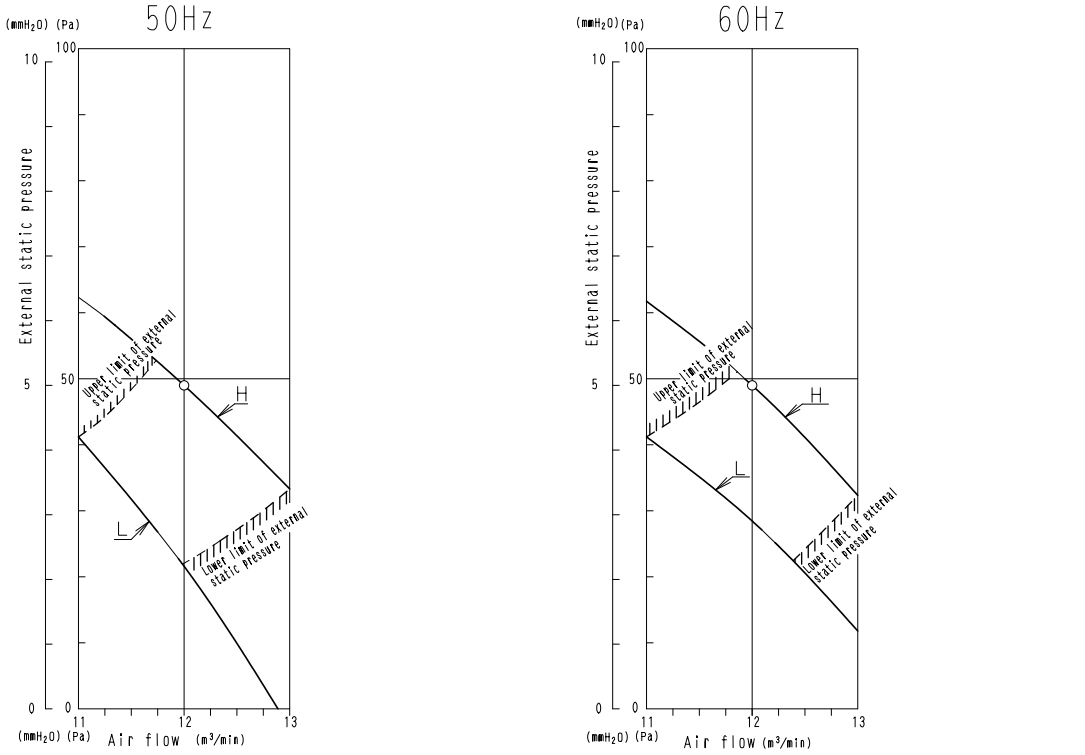
| Unit Size | Outdoor air temp. | | Indoor air temp. : °CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 40 | -14.7 | -15.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -12.6 | -13.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -10.5 | -11.0 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| | -9.5 | -10.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -8.5 | -9.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -7.0 | -7.6 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| | -5.0 | -5.6 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| | -3.0 | -3.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 0.0 | -0.7 | 4.8 | 4.8 | 4.8 | 4.8 | 4.6 | 4.2 |
| | 3.0 | 2.2 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.6 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| 50 | -14.7 | -15.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | -12.6 | -13.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | -10.5 | -11.0 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -9.5 | -10.0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| | -8.5 | -9.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -7.0 | -7.6 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | -5.0 | -5.6 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.3 |
| | -3.0 | -3.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 0.0 | -0.7 | 6.0 | 6.0 | 6.0 | 6.0 | 5.8 | 5.3 |
| | 3.0 | 2.2 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 7.0 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 7.2 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | -12.6 | -13.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -10.5 | -11.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | -9.5 | -10.0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -8.5 | -9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -7.0 | -7.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| | -5.0 | -5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | -3.0 | -3.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.8 |
| | 0.0 | -0.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.4 | 6.8 |
| | 3.0 | 2.2 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.9 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 9.2 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

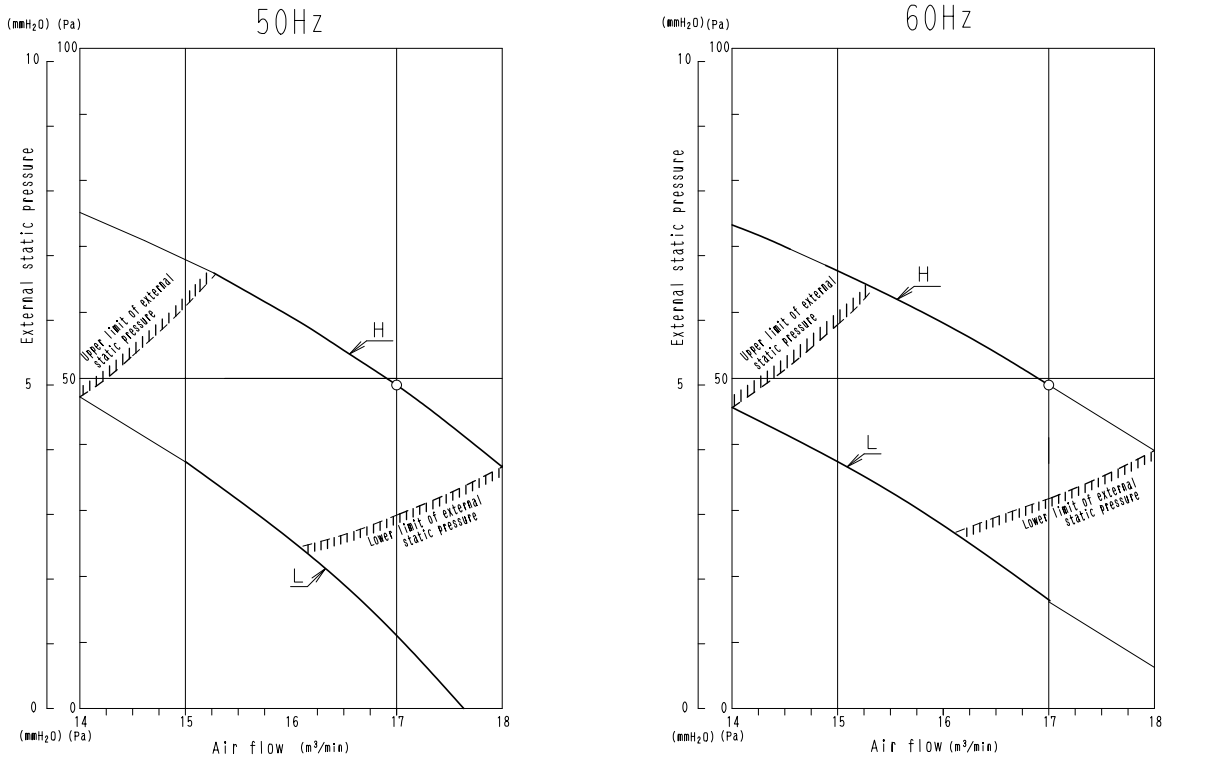
Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

# 7. Fan Performances

**FXYD20·25·32·40KAVE**




**FXYD50·63KAVE**




**Note:**

1. The remote controller can be used to switch between “high” and “low”.
2. The air flow is set to “standard,” before leaving the factory. It is possible to switch between “standard ESP” and “high ESP” by changing the switch in the indoor unit electrical box.

# 8. Electric Characteristics

| Units | | | | | Power supply | | IFM | | INPUT (W) |
|---|---|---|---|---|---|---|---|---|---|
| Model | Type | Hz | Volts | Voltage range | MCA | MFA | kW | FLA | |
| FXYD20K | VE VES AVE | 50 | 220-240 | MAX. 264 Min. 198 | 0.5 | 15 | 0.045 | 0.4 | 78 |
| FXYD25K | | | | | 0.5 | 15 | 0.045 | 0.4 | 78 |
| FXYD32K | | | | | 0.5 | 15 | 0.045 | 0.4 | 78 |
| FXYD40K | | | | | 0.5 | 15 | 0.045 | 0.4 | 78 |
| FXYD50K | | | | | 0.6 | 15 | 0.065 | 0.5 | 104 |
| FXYD63K | | | | | 0.6 | 15 | 0.065 | 0.5 | 104 |
| FXYD20K | VE VES AVE | 60 | 220 | MAX. 242 Min. 198 | 0.5 | 15 | 0.045 | 0.4 | 86 |
| FXYD25K | | | | | 0.5 | 15 | 0.045 | 0.4 | 86 |
| FXYD32K | | | | | 0.5 | 15 | 0.045 | 0.4 | 86 |
| FXYD40K | | | | | 0.5 | 15 | 0.045 | 0.4 | 86 |
| FXYD50K | | | | | 0.8 | 15 | 0.065 | 0.6 | 121 |
| FXYD63K | | | | | 0.8 | 15 | 0.065 | 0.6 | 121 |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
kW : Fan Motor Rated Output(KW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range

   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

   MCA = 1.25 X FLA

   MFA ≦ 4 X FLA

   (Next lower standard fuse rating. Min. 15A)

4. Select wire size based on the MCA.

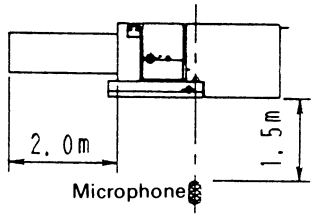
5. Instead of fuse, use Circuit Breaker.

4D012489D

# 9. Sound Levels

## Overall

■ **Ceiling Mounted Low Silhouette Duct Type**




(V0472)

When the place of suction is changed to the bottom suction, the sound level will increase by approx. 5 dBA.

**Notes:**

1. The operating conditions are assumed to be standard (JIS conditions).
2. These operating values were obtained in a dead room (conversion values).
   Sound levels will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

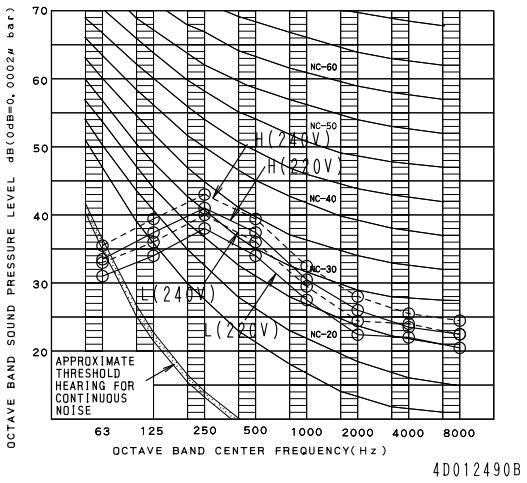
dBA

| Model | 220V50Hz | | 240V50Hz | |
|---|---|---|---|---|
| | H | L | H | L |
| FXYD20KA<br>FXYD25KA<br>FXYD32KA<br>FXYD40KA | 38 | 35 | 40 | 37 |
| FXYD50KA<br>FXYD63KA | 41 | 38 | 43 | 40 |

## Octave Band Level

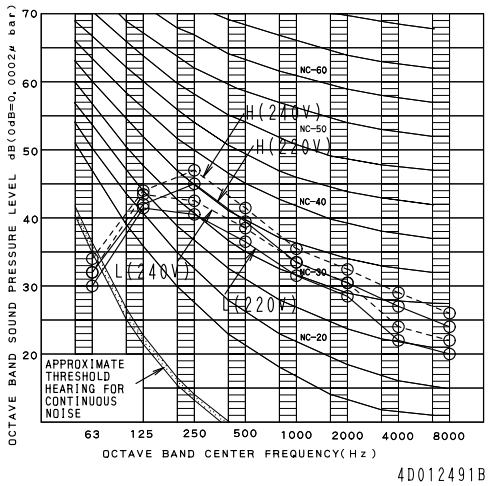
○——○ 220V
○- - - -○ 240V

**FXYD20·25·32·40KAVE**




4D012490B

**FXYD50·60KAVE**

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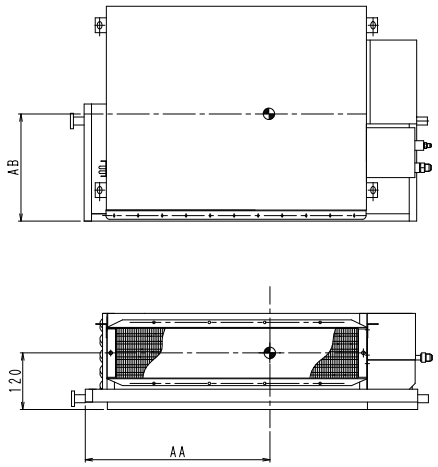
# 10. Installation

## Center of Gravity

Unit (mm)

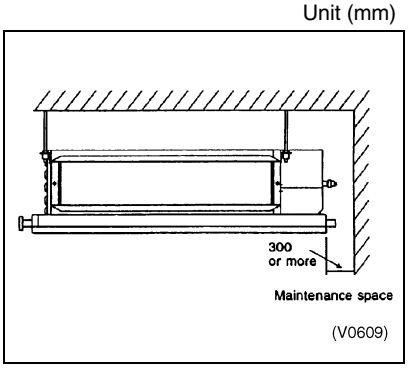



| MODEL | AA | AB |
|---|---|---|
| FXYD20 • 25 • 32 • 40KAVE | 500 | 290 |
| FXYD50 • 63KAVE | 700 | 280 |

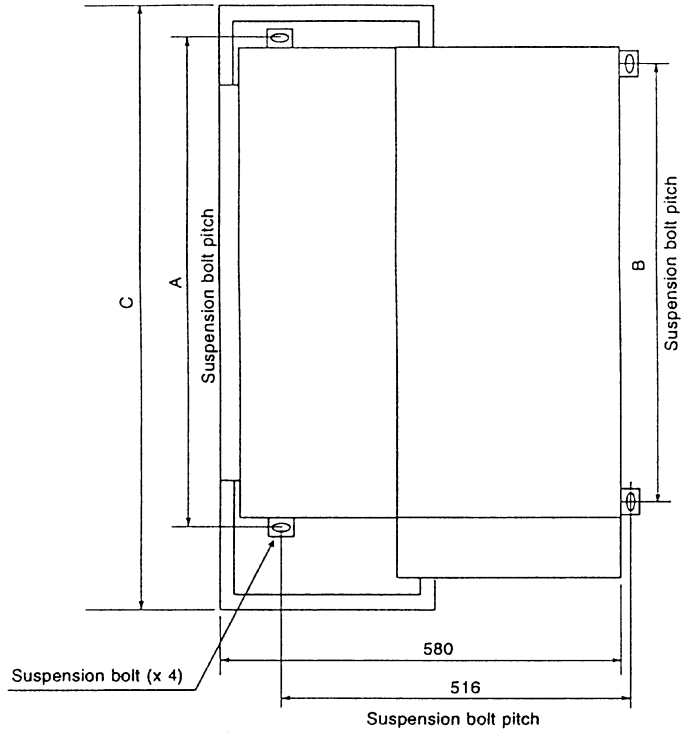
4D024879

## Service Space

Unit (mm)



## Bolt Pitch




| Model | A | B | C |
|---|---|---|---|
| FXYD20 • 25 • 32• 40KAVE | 740 | 632 | 900 |
| FXYD50 • 63KAVE | 1140 | 1032 | 1300 |

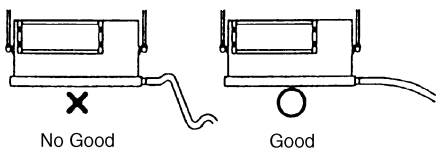
(V1227)

## Drain Piping

Rig the drain pipe as shown below and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.

**1. Install the drain pipes.**

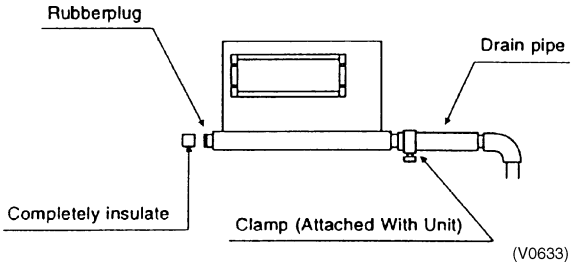
- Keep piping as short as possible and slope it downwards so that air may not remain trapped inside the pipe.
- Keep pipe size equal to or greater than that of the connecting pipe. (vinyl pipe of 26 mm nominal diameter.)
- Use the attached clamp and drain hose.
  Tighten the clamp firmly.
- Insulate the clamp with the attached sealing pad.
- Insulate the drain pipe inside the building.
- Drain piping may be clogged with dust and may result in water leakage and property damage.
- When obliged to install the indoor units in a dusty place, cover the drain pan by field supplied to prevent dust from falling into it.
- While installing indoor units, take care that dust etc. should not drop into the drain pan.
- It is necessary to clean the drain pan.

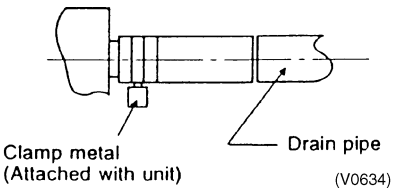


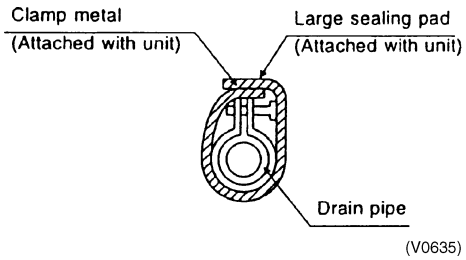

(V0632)

**( HOW TO INSTALL PIPING )**

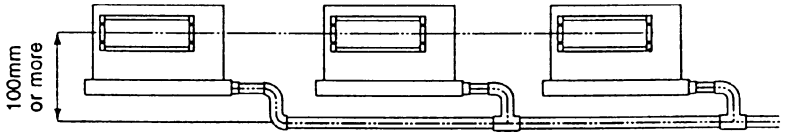
(1) Connect the drain pipe (field supplied) to the drain pipe, and insulate them.
(2) Connect the drain pipe to the drain outlet on the indoor unit, and tighten it with the clamp.
(3) Insulate both metal clamp and drain hose with the attached sealing pad.



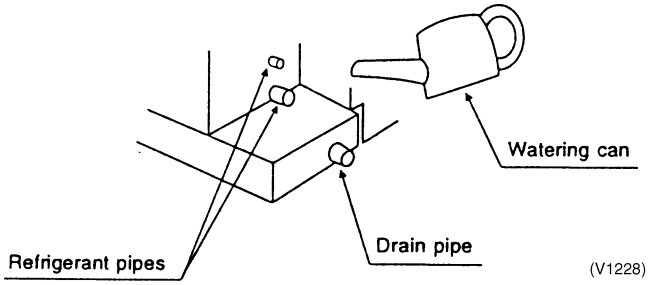




- To ensure a downward slope of 1:100, install hanging bars every 1 to 1.5 m.
- If unifying multiple drain pipes, install pipes shown below.




**2. After piping work is finished, check drainage flows smoothly.**

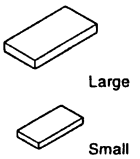
- Open the water inlet lid, add approximately 1000cc of water gradually and check drainage flow.



# 11. Accessories

## Standard Accessories

**FXYD20KA~63KA**

| Name | Clamp metal | Insulation for fitting | Sealing pad | Screws for duct flanges | Clamp | |
|---|---|---|---|---|---|---|
| Quantity | 1 | 1 | Large and small 1 each | 1 set | 8 | [Other] • Operation manual • Installation manual |
| Shape | | |   | | | |

3PN01417-2F-1

## Optional Accessories (For Unit)

| No. | Type / Item | FXYD20KA FXYD25KA FXYD32KA FXYD40KA | FXYD50KA FXYD63KA |
|---|---|---|---|
| 1 | Decoration Panel | KDGF19A45 | KDGF19A71 |

4D024667

**Optional Accessories (For Controls) Refer to P.484.**

# FXS-L
# Ceiling Mounted Built-In Type

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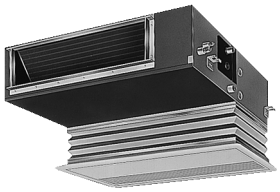
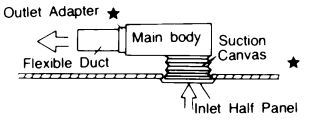
# 1. Features

**A highly flexible air-conditioning system that is adaptable to a wide range of needs, and is designed to facilitate maintenance while providing a high-quality environment.**

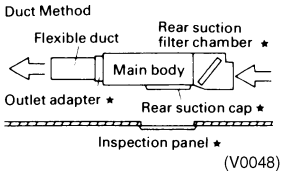
- Offers freedom of development for the body, outlets and inlets, and wide variety of optional functions, and gives you the freedom to choose the best set-up according to conditions and needs such as interior and layout design, maintenance, etc.



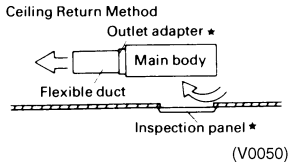
Installation like cassette



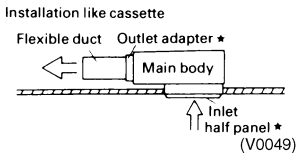

Duct Method



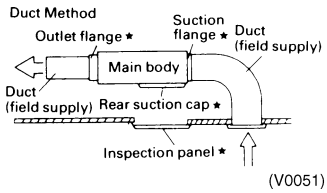

Ceiling Return Method



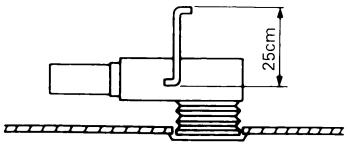

Installation like cassette




Duct Method




- In addition to regular ducts, layout is unrestricted and design is easy. You can also use flexible ducts that do not require the duct work of regular ducts.
- Offers a selection of nine models ranging from 20 class (equivalent to 0.8HP) to Maximum 125 class (equivalent to 5HP).
- All models feature thin design (350 mm height) making them applicable to ceiling pockets that tend to be shallow.
- Lets you set external static pressure in three stages ranging from max. 10 to min. 2 mm $H_2O$ (2 stages, min. 4 mm $H_2O$ for 80 class) according to conditions such as duct height or whether a high-efficiency filter is used, etc.
- Equipped with a programmed drying mechanism that dehumidifies while inhibiting changes in room temperature
- Includes as standard equipment a long-life filter that is maintenance-free for approximately one year. (Treated to mold resistant.)
- Includes as standard equipment drain pump kit that makes possible draining in the upward direction up to 250 mm from the drain pipe opening.



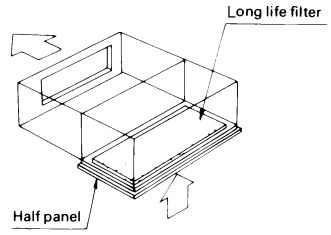

- Silent-type air-conditioner doesn't destroy the quiet mood of your office.

| Capacity | 20 type | 25 type | 32 type | 40 type | 50 type | 63 type | 80 type | 100 type | 125 type |
|---|---|---|---|---|---|---|---|---|---|
| Operating sound (dBA) | 37/32 | 37/32 | 38/32 | 38/32 | 41/36 | 42/35 | 42/35 | 43/37 | 46/41 |

- Two types of high-efficiency filters, 65% and 90% (colorimetric method) are available. (Cannot be used if using rear suction type.)
- Suction half panel is thin and unimposing. Ceiling materials adhere to its surface and it provides an excellent finishing touch for the ceiling.
- A wide variety of optional accessories are available such as an auxiliary electric heater (except cooling only).
- If using duct air mounting, please consult with the local fire department for auxiliary heater installation.

## Example of Installation (Built-In)

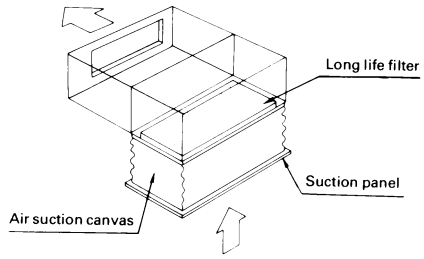
### ■ Direct installation of half panel




(V0082)

| Model | | FXS20L FXS25L FXS32L | FXS40L FXS50L | FXS63L | FXS80L FXS100L FXS125L |
|---|---|---|---|---|---|
| Necessary Options | Remote Controller | BRC1A62 | | | |
| | Half Panel | BYBS32DJW1 | BYBS45DJW1 | BYBS71DJW1 | BYBS125DJW1 |

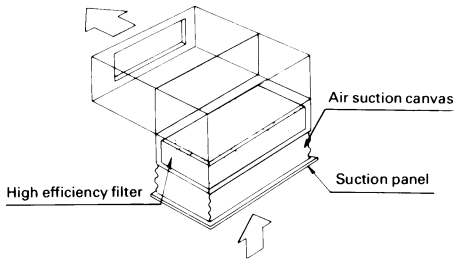
### ■ Installation of Half panel and suction canvas




(V0083)

| Model | | FXS20L FXS25L FXS32L | FXS40L FXS50L | FXS63L | FXS80L FXS100L FXS125L |
|---|---|---|---|---|---|
| Necessary Options | Remote Controller | BRC1A62 | | | |
| | Half Panel | BYBS32DJW1 | BYBS45DJW1 | BYBS71DJW1 | BYBS125DJW1 |
| | Air Suction Canvas | KSAJ25K36 | KSAJ25K56 | KSAJ25K80 | KSAJ25L160 |

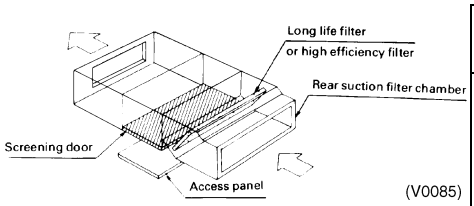
### ■ Installation like ceiling mounted cassette type with High efficiency filter




(V0084)

| Model | | | FXS20L FXS25L FXS32L | FXS40L FXS50L | FXS63L | FXS80L FXS100L FXS125L |
|---|---|---|---|---|---|---|
| Necessary Options | Remote Controller | | BRC1A62 | | | |
| | Half Panel | | BYBS32DJW1 | BYBS45DJW1 | BYBS71DJW1 | BYBS125DJW1 |
| | High Efficiency Filter | NBS65% | KAFJ252L36 | KAFJ252L56 | KAFJ252L80 | KAFJ252L160 |
| | | NBS90% | KAFJ253L36 | KAFJ253L56 | KAFJ253L80 | KAFJ253L160 |
| | Air Suction Canvas | | KSAJ25K36 | KSAJ25K56 | KSAJ25K80 | KSAJ25L160 |
| | Bottom Suction Filter Chamber | | KAJ25L36D | KAJ25L56D | KAJ25L80D | KAJ25L160D |

### ■ Installation with duct (A)



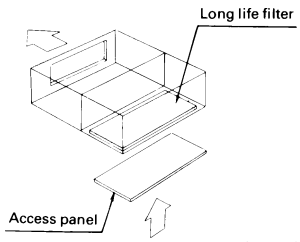

(V0085)

The access panel should be fitted beneath the main body of the unit.

| Model | | | FXS20L FXS25L FXS32L | FXS40L FXS50L | FXS63L | FXS80L FXS100L FXS125L |
|---|---|---|---|---|---|---|
| Necessary Options | Remote Controller | | BRC1A62 | | | |
| | Access Panel | | KTBJ25K36W | KTBJ25K56W | KTBJ25K80W | KTBJ25K160W |
| | Rear Suction Filter Chamber | | KAJ25L36B | KAJ25L56B | KAJ25L80B | KAJ25L160B |
| | Screening Door | | KBBJ25K36 | KBBJ25K56 | KBBJ25K80 | KBBJ25K160 |
| | High Efficiency Filter (If Necessary) | NBS65% | KAFJ252L36 | KAFJ252L56 | KAFJ252L80 | KAFJ252L160 |
| | | NBS90% | KAFJ253L36 | KAFJ253L56 | KAFJ253L80 | KAFJ253L160 |

7

## ■ Ceiling return

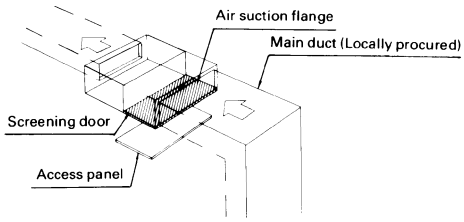



(V0086)

The access panel should be fitted beneath the main body of the unit.

| Model | | FXS20L FXS25L FXS32L | FXS40L FXS50L | FXS63L | FXS80L FXS100L FXS125L |
|---|---|---|---|---|---|
| Necessary Options | Remote Controller | BRC1A62 | | | |
| | Access Panel | KTBJ25K36W | KTBJ25K56W | KTBJ25K80W | KTBJ25K160W |

## ■ Installation with duct (B)




(V0087)

The access panel should be fitted beneath the main body of the unit.

| Model | | FXS20L FXS25L FXS32L | FXS40L FXS50L | FXS63L | FXS80L FXS100L FXS125L |
|---|---|---|---|---|---|
| Necessary Options | Remote Controller | BRC1A62 | | | |
| | Access Panel | KTBJ25K36W | KTBJ25K56W | KTBJ25K80W | KTBJ25K160W |
| | Screening Door | KBBJ25K36 | KBBJ25K56 | KBBJ25K80 | KBBJ25K160 |
| | Air Suction Flange | KDJ2507K36 | KDJ2507K56 | KDJ2507K80 | KDJ2507K160 |

# 2. Specifications

## Ceiling Mounted Built-in Type

| Model | | | | FXS20LVE | FXS25LVE | FXS32LVE |
|---|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | | kcal/h | 2,000 | 2,500 | 3,150 |
| | | | Btu/h | 7,900 | 9,900 | 12,500 |
| | | | kW | 2.3 | 2.9 | 3.7 |
| ★2 Cooling Capacity (19.0°CWB) | | | kW | 2.2 | 2.8 | 3.6 |
| ★3 Heating Capacity | | | kcal/h | 2,200 | 2,800 | 3,400 |
| | | | Btu/h | 8,500 | 10,900 | 13,600 |
| | | | kW | 2.5 | 3.2 | 4.0 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | | mm | 300×550×800 | 300×550×800 | 300×550×800 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | | mm | 3×14×1.75 | 3×14×1.75 | 3×14×1.75 |
| | Face Area | | m² | 0.088 | 0.088 | 0.088 |
| Fan | Model | | | D18H3A | D18H3A | D18H3A |
| | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | | W | 50×1 | 50×1 | 50×1 |
| | Air Flow Rate (H/L) | (50Hz) | m³/min | 9/6.5 | 9/6.5 | 9.5/7 |
| | | (60Hz) | m³/min | 9/6.5 | 9/6.5 | 9.5/6.5 |
| | ★4 Static external pressure | (50Hz) | Pa | 88-39-20 | 88-39-20 | 64-39-15 |
| | | (60Hz) | Pa | 73-24-10 | 73-24-10 | 86-42-10 |
| | Drive | | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | | Glass Fiber | Glass Fiber | Glass Fiber |
| Air Filter | | | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| Piping Connections | Liquid Pipes | | mm | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) |
| | Gas Pipes | | mm | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) |
| | Drain Pipe | | mm | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) |
| Machine Weight | | | kg | 30 | 30 | 30 |
| ★6 Sound Level (H/L) (220V) | | | dBA | 37/32 | 37/32 | 38/32 |
| Safety Devices | | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | | R22 : K or M Series, R407C : K or L Series | R22 : K or M Series, R407C : K or L Series | R22 : K or M Series, R407C : K or L Series |
| Decoration Panel (Option) | Model | | | BYBS32DJW1 | BYBS32DJW1 | BYBS32DJW1 |
| | Panel Color | | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) |
| | Dimensions: (H×W×D) | | mm | 55×650×500 | 55×650×500 | 55×650×500 |
| | Weight | | kg | 3 | 3 | 3 |
| Standard Accessories | | | | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers. |
| Drawing No. | | | | 3D036931 | | |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard -Low static pressure".
★5 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
6 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
★7 Operation sound is measured in an anechoic chamber.
8 Refer to page 256 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

7

## Ceiling Mounted Built-in Type

| Model | | | | FXS40LVE | FXS50LVE | FXS63LVE |
|---|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | | kcal/h | 4,000 | 5,000 | 6,300 |
| | | | Btu/h | 15,900 | 19,900 | 25,000 |
| | | | kW | 4.7 | 5.8 | 7.3 |
| ★2 Cooling Capacity (19.0°CWB) | | | kW | 4.5 | 5.6 | 7.1 |
| ★3 Heating Capacity | | | kcal/h | 4,300 | 5,400 | 6,900 |
| | | | Btu/h | 17,000 | 21,500 | 27,300 |
| | | | kW | 5.0 | 6.3 | 8.0 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | | mm | 300×700×800 | 300×700×800 | 300×1,000×800 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | | mm | 3×14×1.75 | 3×14×1.75 | 3×14×1.75 |
| | Face Area | | m² | 0.132 | 0.132 | 0.221 |
| Fan | Model | | | D18H2A | D18H2A | 2D18H2A |
| | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | | W | 65×1 | 85×1 | 125×1 |
| | Air Flow Rate (H/L) | (50Hz) | m³/min | 11.5/9 | 15/11 | 21/15.5 |
| | | (60Hz) | m³/min | 11.5/9 | 15/11 | 21/14 |
| | ★4 Static external pressure | (50Hz) | Pa | 88-49-20 | 88-59-29 | 88-49-20 |
| | | (60Hz) | Pa | 88-29-10 | 88-41-10 | 122-66-10 |
| | Drive | | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | | Glass Fiber | Glass Fiber | Glass Fiber |
| Air Filter | | | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| Piping Connections | Liquid Pipes | | mm | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | | mm | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) |
| | Drain Pipe | | mm | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) |
| Machine Weight | | | kg | 30 | 31 | 41 |
| ★6 Sound Level (H/L) | | | dBA | 38/32 | 41/36 | 42/35 |
| Safety Devices | | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | | R22 : K or M Series, R407C : K or L Series | R22 : K or M Series, R407C : K or L Series | R22 : K or M Series, R407C : K or L Series |
| Decoration Panel (Option) | Model | | | BYBS45DJW1 | BYBS45DJW1 | BYBS71DJW1 |
| | Panel Color | | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) |
| | Dimensions: (H×W×D) | | mm | 55×800×500 | 55×800×500 | 55×1,100×500 |
| | Weight | | kg | 3.5 | 3.5 | 4.5 |
| Standard Accessories | | | | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers. |
| Drawing No. | | | | 3D036931 | | |

### Notes:

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard -Low static pressure".
★5 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
6 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
★7 Operation sound is measured in an anechoic chamber.
★8 Refer to page 256 for Fan Motor Input.

## Ceiling Mounted Built-in Type

| Model | | | | FXS80LVE | FXS100LVE | FXS125LVE |
|---|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | | kcal/h | 8,000 | 10,000 | 12,500 |
| | | | Btu/h | 31,800 | 39,700 | 49,600 |
| | | | kW | 9.3 | 11.6 | 14.5 |
| ★2 Cooling Capacity (19.0°CWB) | | | kW | 9.0 | 11.2 | 14.0 |
| ★3 Heating Capacity | | | kcal/h | 8,600 | 10,800 | 13,800 |
| | | | Btu/h | 34,100 | 42,700 | 54,600 |
| | | | kW | 10.0 | 12.5 | 16.0 |
| Casing | | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | | mm | 300×1,400×800 | 300×1,400×800 | 300×1,400×800 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | | mm | 3×14×1.75 | 3×14×1.75 | 3×14×1.75 |
| | Face Area | | $m^2$ | 0.338 | 0.338 | 0.338 |
| Fan | Model | | | 3D18H2A | 3D18H2A | 3D18H2A |
| | Type | | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | | W | 225×1 | 225×1 | 225×1 |
| | Air Flow Rate (H/L) | (50Hz) | $m^3$/min | 27/21.5 | 28/22 | 38/28 |
| | | (60Hz) | $m^3$/min | 27/20.5 | 28/21 | 38/27 |
| | ★5 Static external pressure | (50Hz) | Pa | 113-82 | 107-75 | 78-39 |
| | | (60Hz) | Pa | 147-92 | 136-83 | 78-20 |
| | Drive | | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | | Glass Fiber | Glass Fiber | Glass Fiber |
| Air Filter | | | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| Piping Connections | Liquid Pipes | | mm | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | | mm | ϕ15.9 (Flare Connection) | ϕ19.1 (Flare Connection) | ϕ19.1 (Flare Connection) |
| | Drain Pipe | | mm | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) |
| Machine Weight | | | kg | 51 | 51 | 52 |
| ★6 Sound Level (H/L) | | | dBA | 43/37 | 43/37 | 46/41 |
| Safety Devices | | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | | R22 : K or M Series, R407C : K or L Series | R22 : K or M Series, R407C : K or L Series | R22 : K or M Series, R407C : K or L Series |
| Decoration Panel (Option) | Model | | | BYBS125DJW1 | BYBS125DJW1 | BYBS125DJW1 |
| | Panel Color | | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) |
| | Dimensions: (H×W×D) | | mm | 55×1,500×500 | 55×1,500×500 | 55×1,500×500 |
| | Weight | | kg | 6.5 | 6.5 | 6.5 |
| Standard Accessories | | | | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws, Washers. |
| Drawing No. | | | | 3D036931 | | |

### Notes:

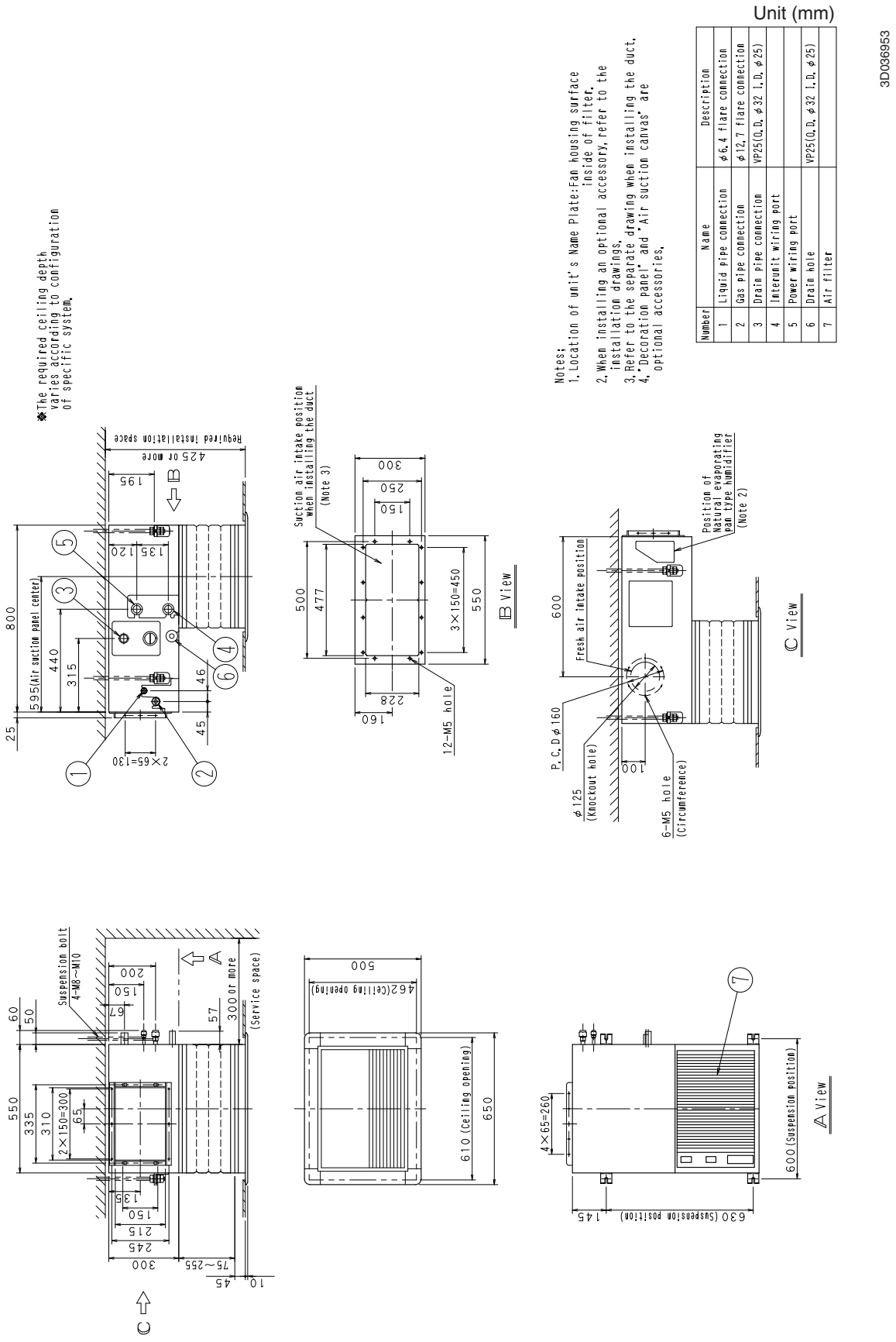
| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=$m^3$/min×35.3 |

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard -Low static pressure".
★5 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
6 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
★7 Operation sound is measured in an anechoic chamber.
8 Refer to page 256 for Fan Motor Input.

# 3. Dimensions

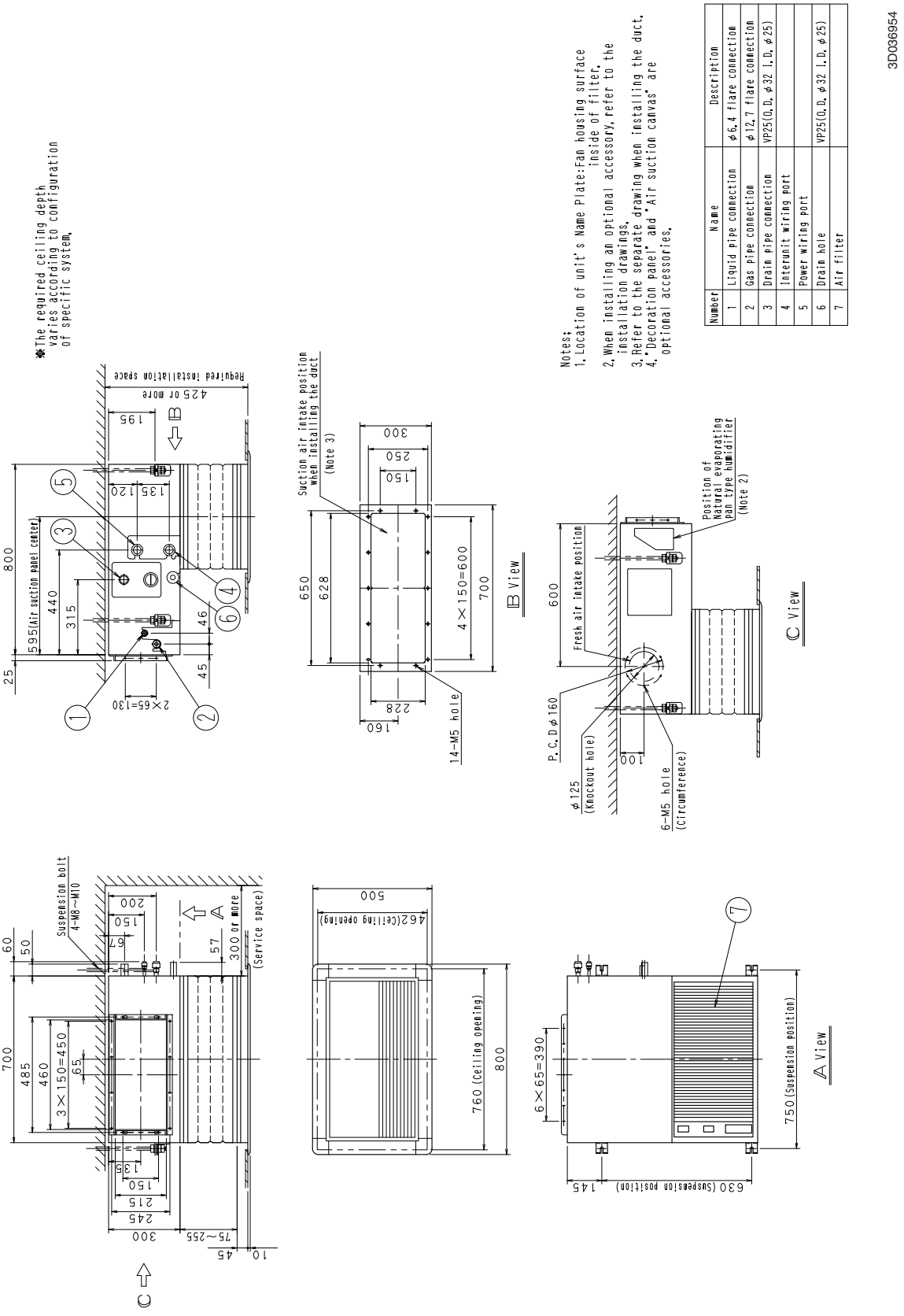
**FXS20L + BYBS32DJW1 (with Canvas Duct)**
**FXS25L + BYBS32DJW1 (with Canvas Duct)**
**FXS32L + BYBS32DJW1 (with Canvas Duct)**

Unit (mm)



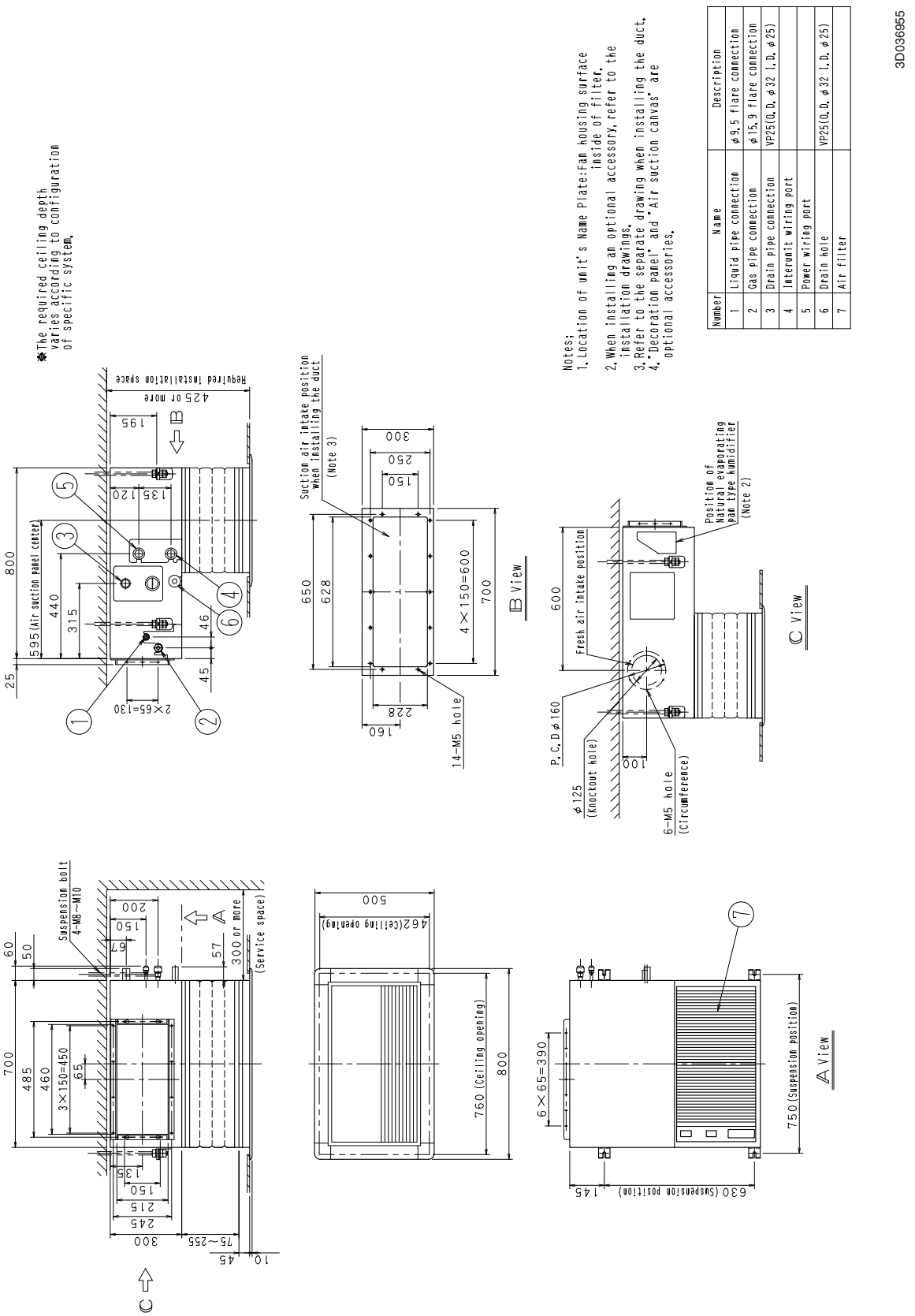
## FXS40L + BYBS45DJW1 (With Canvas Duct)

Unit (mm)



## FXS50L + BYBS45DJW1 (with Canvas Duct)

Unit (mm)



## FXS63L + BYBS71DJW1 (With Canvas Duct)

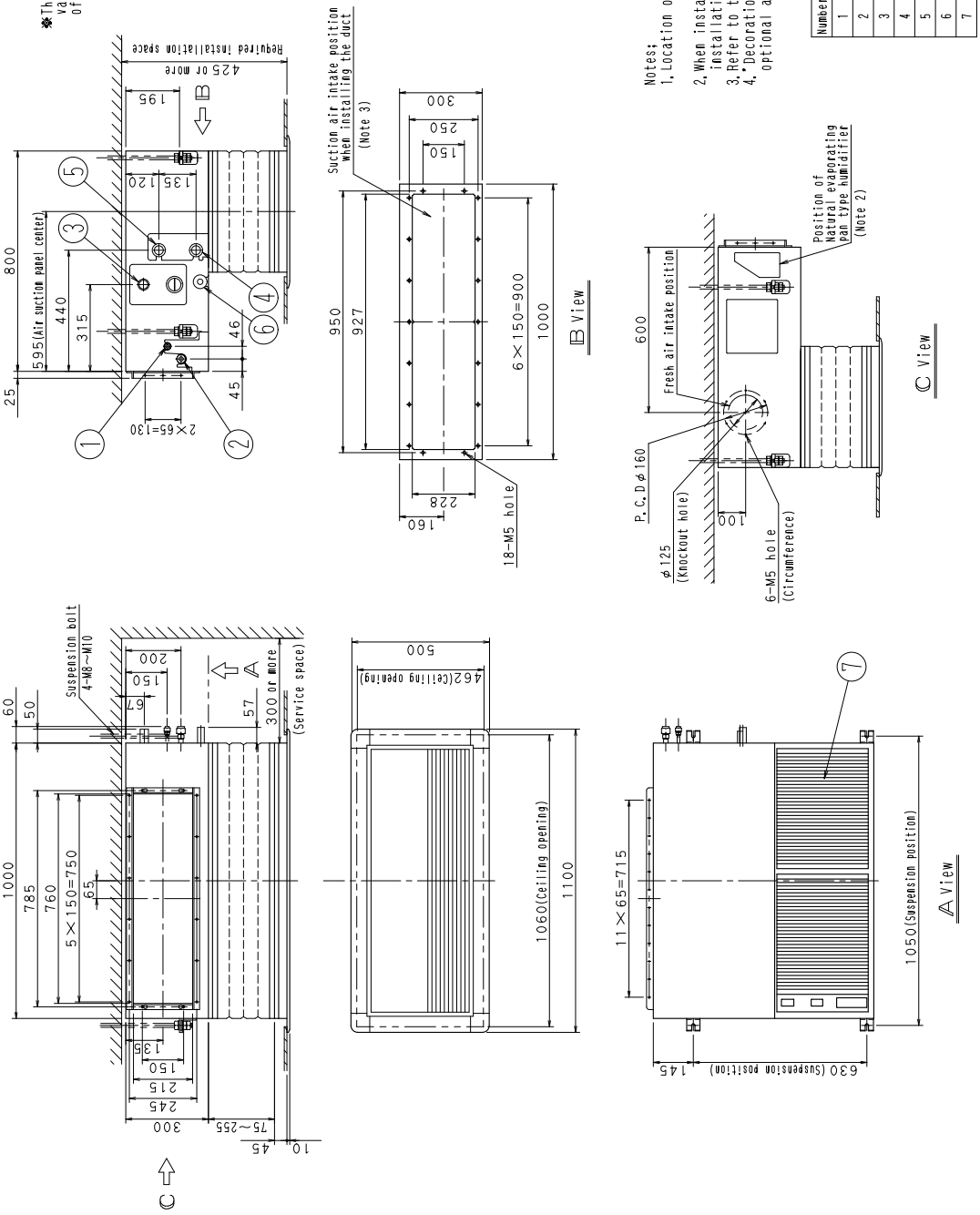
Unit (mm)

3D036956A

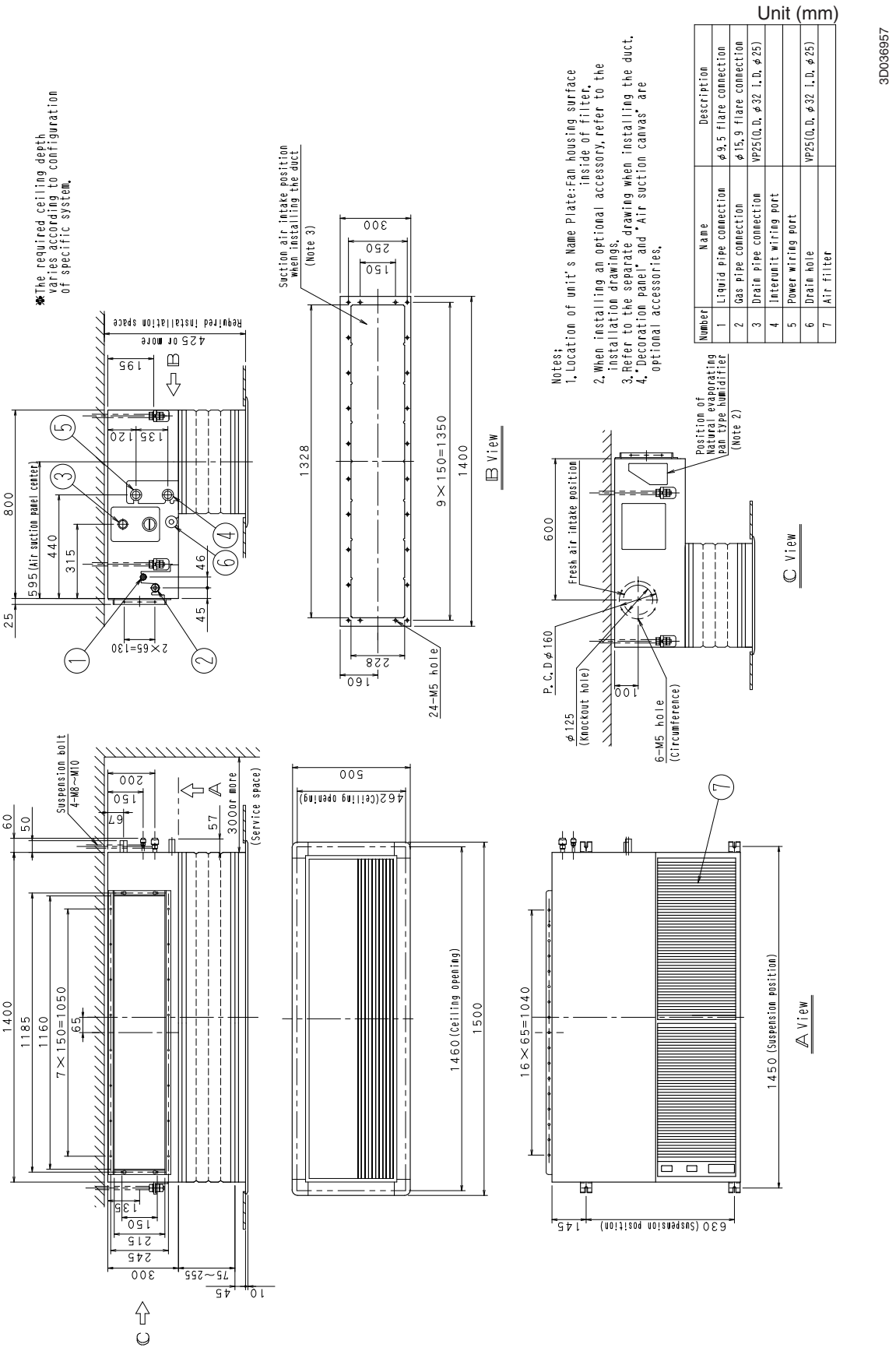
| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection | φ9.5 flare connection |
| 2 | Gas pipe connection | φ15.9 flare connection |
| 3 | Drain pipe connection | VP25(O.D. φ32 I.D. φ25) |
| 4 | Interunit wiring port | |
| 5 | Power wiring port | |
| 6 | Drain hole | VP25(O.D. φ32 I.D. φ25) |
| 7 | Air filter | |

Notes:
1. Location of unit's Name Plate:Fan housing surface inside of filter.
2. When installing an optional accessory, refer to the installation drawings.
3. Refer to the separate drawing when installing the duct.
4. "Decoration panel" and "Air suction canvas" are optional accessories.

※The required ceiling depth varies according to configuration of specific system.

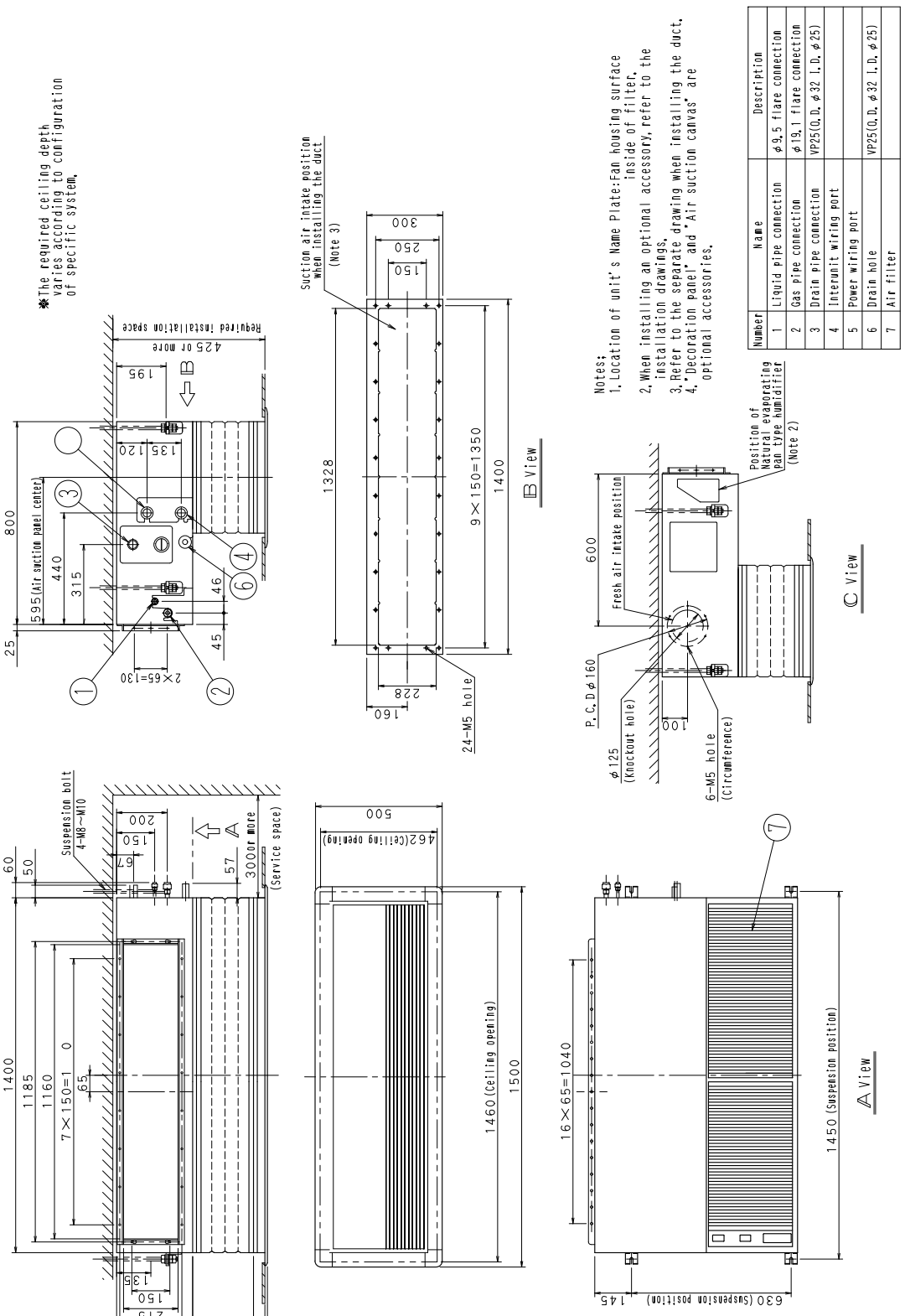


## FXS80L + BYBS125DJW1 (With Canvas Duct)



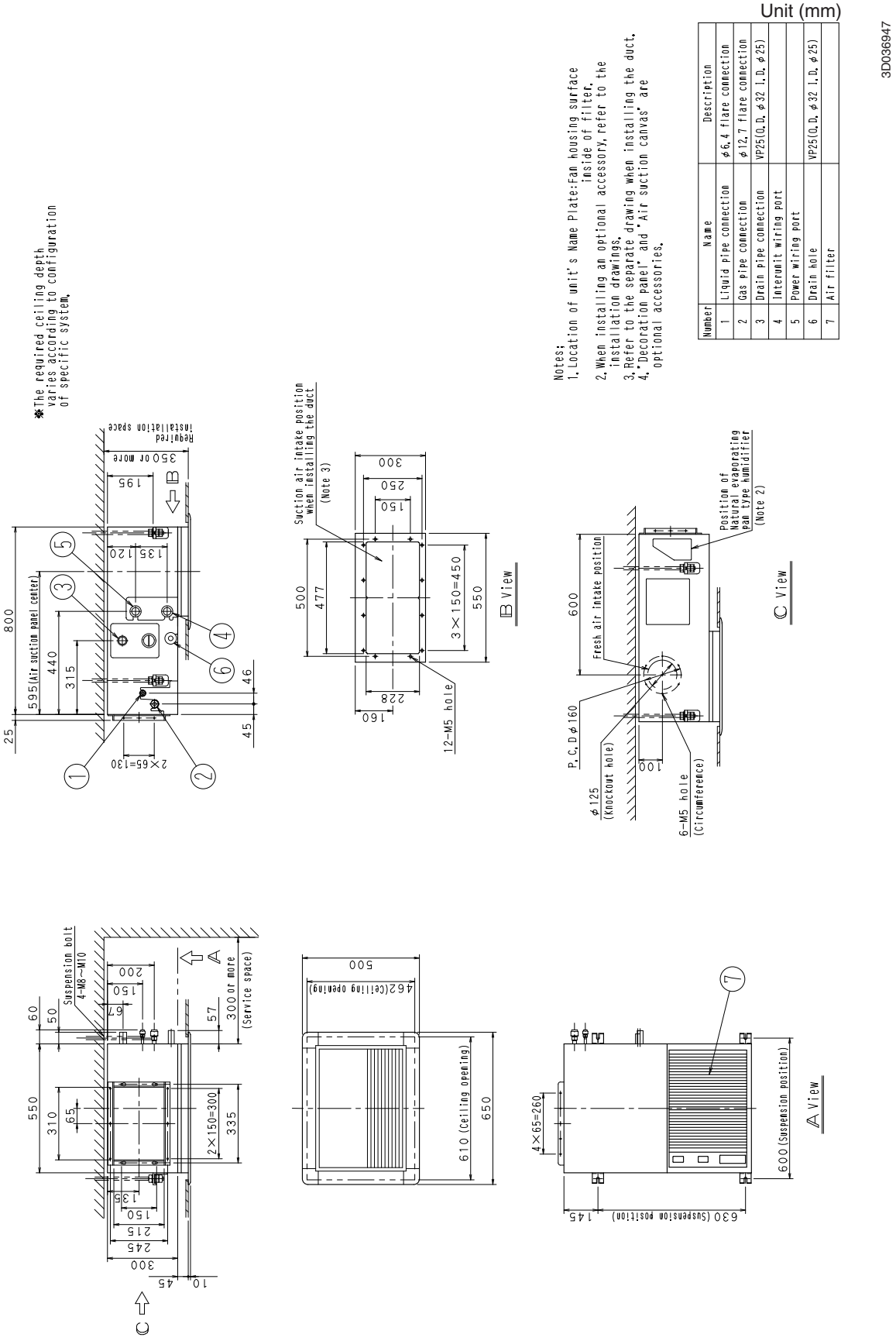
**FXS100L + BYBS125DJW1 (With Canvas Duct)**
**FXS125L + BYBS125DJW1 (With Canvas Duct)**

Unit (mm)



**FXS20L + BYBS32DJW1 (Without Canvas Duct)**
**FXS25L + BYBS32DJW1 (Without Canvas Duct)**
**FXS32L + BYBS32DJW1 (Without Canvas Duct)**

Unit (mm)



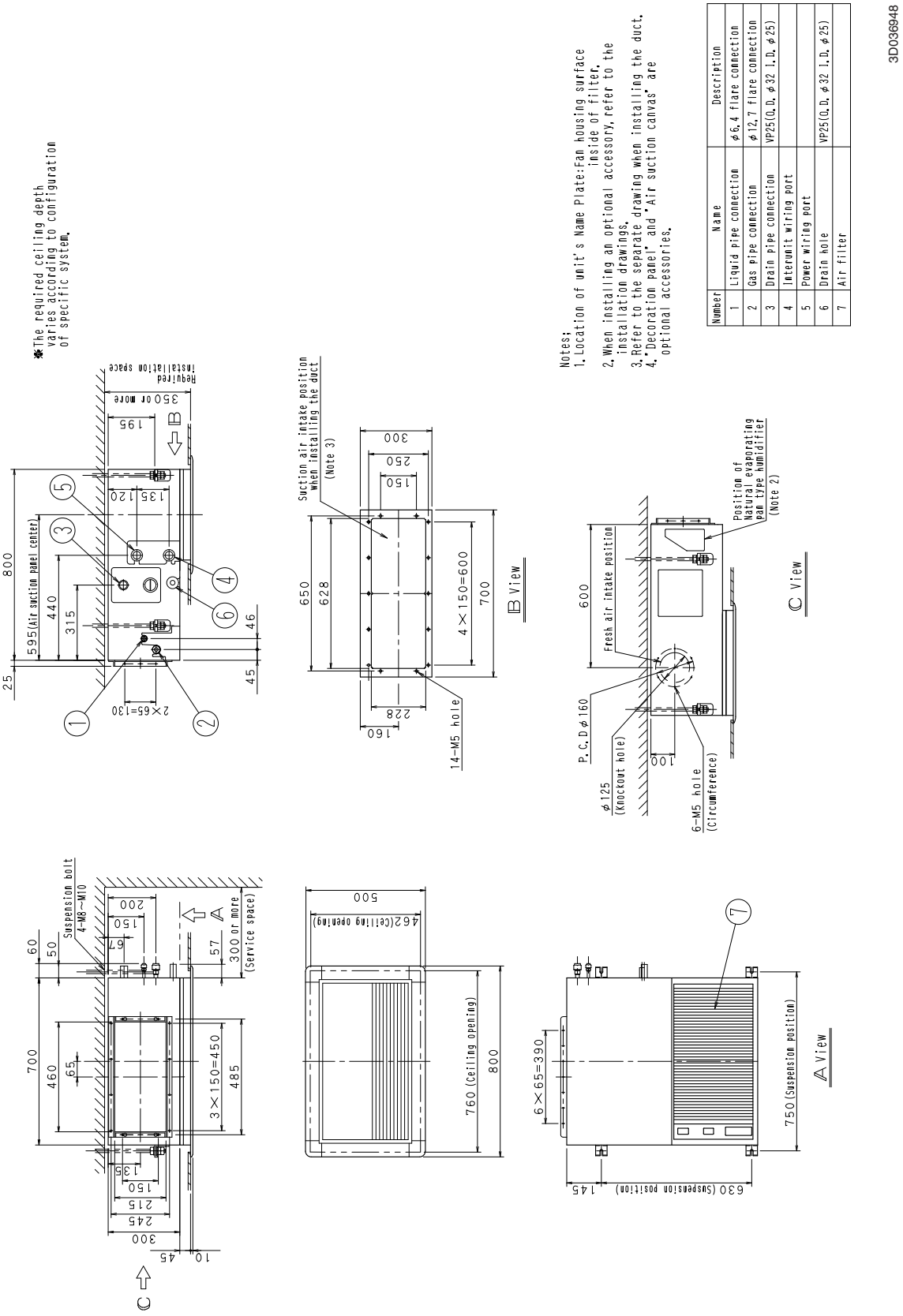

Notes;
1. Location of unit's Name Plate:Fan housing surface inside of filter.
2. When installing an optional accessory, refer to the installation drawings.
3. Refer to the separate drawing when installing the duct.
4. "Decoration panel" and "Air suction canvas" are optional accessories.

| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection | φ6.4 flare connection |
| 2 | Gas pipe connection | φ12.7 flare connection |
| 3 | Drain pipe connection | VP25(O.D. φ32 I.D. φ25) |
| 4 | Interunit wiring port | |
| 5 | Power wiring port | |
| 6 | Drain hole | VP25(O.D. φ32 I.D. φ25) |
| 7 | Air filter | |

3D036947

## FXS40L + BYBS45DJW1 (Without Canvas Duct)

Unit (mm)



## FXS50L + BYBS45DJW1 (Without Canvas Duct)

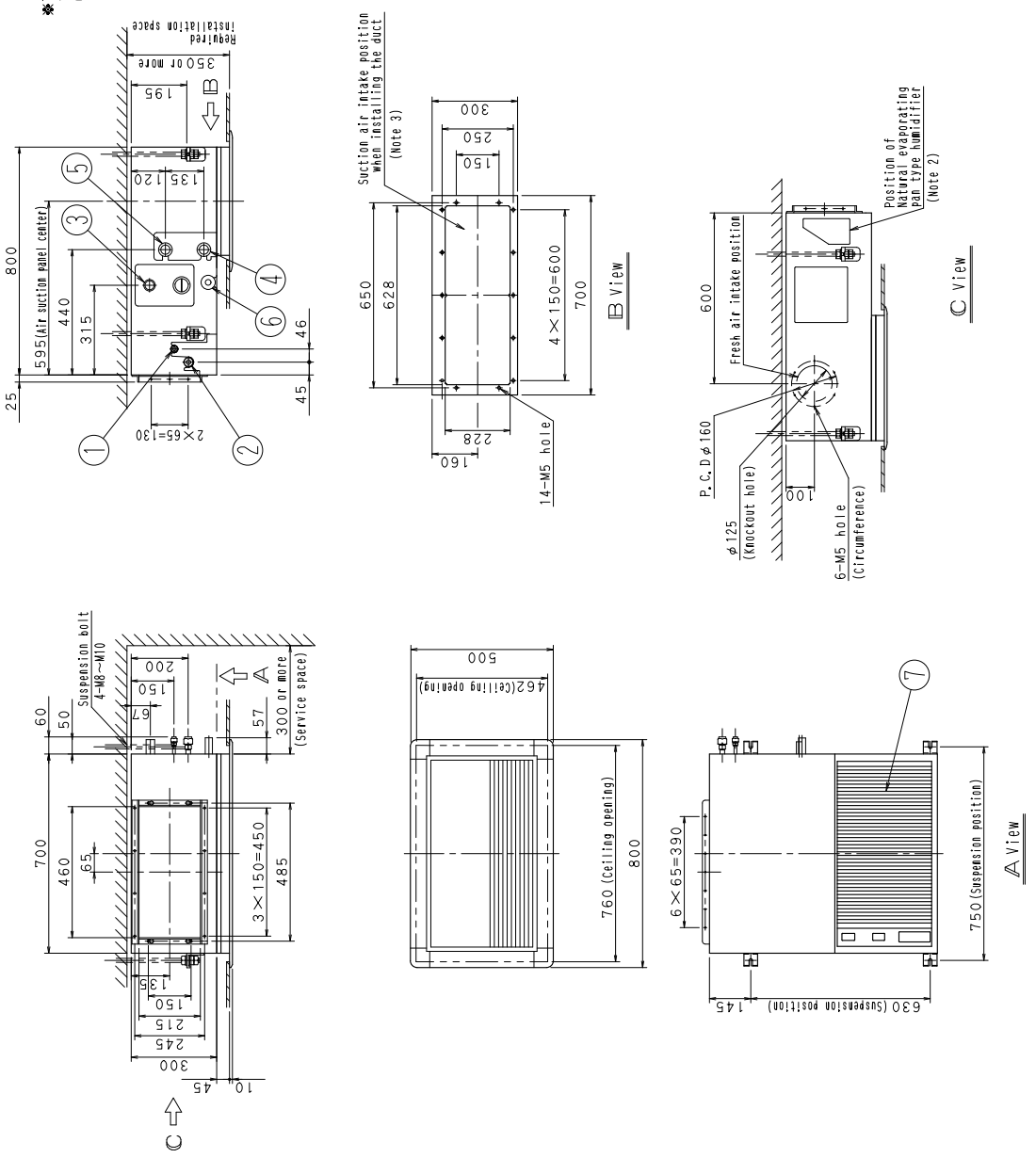
Unit (mm)

| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection | ϕ9.5 flare connection |
| 2 | Gas pipe connection | ϕ15.9 flare connection |
| 3 | Drain pipe connection | VP25(O.D. ϕ32 I.D. ϕ25) |
| 4 | Interunit wiring port | |
| 5 | Power wiring port | |
| 6 | Drain hole | VP25(O.D. ϕ32 I.D. ϕ25) |
| 7 | Air filter | |

Notes:
1. Location of unit's Name Plate:Fan housing surface inside of filter.
2. When installing an optional accessory, refer to the installation drawings.
3. Refer to the separate drawing when installing the duct.
4. "Decoration panel" and "Air suction canvas" are optional accessories.

※The required ceiling depth varies according to configuration of specific system.

3D036949



## FXS63L + BYBS71DJW1 (Without Canvas Duct)

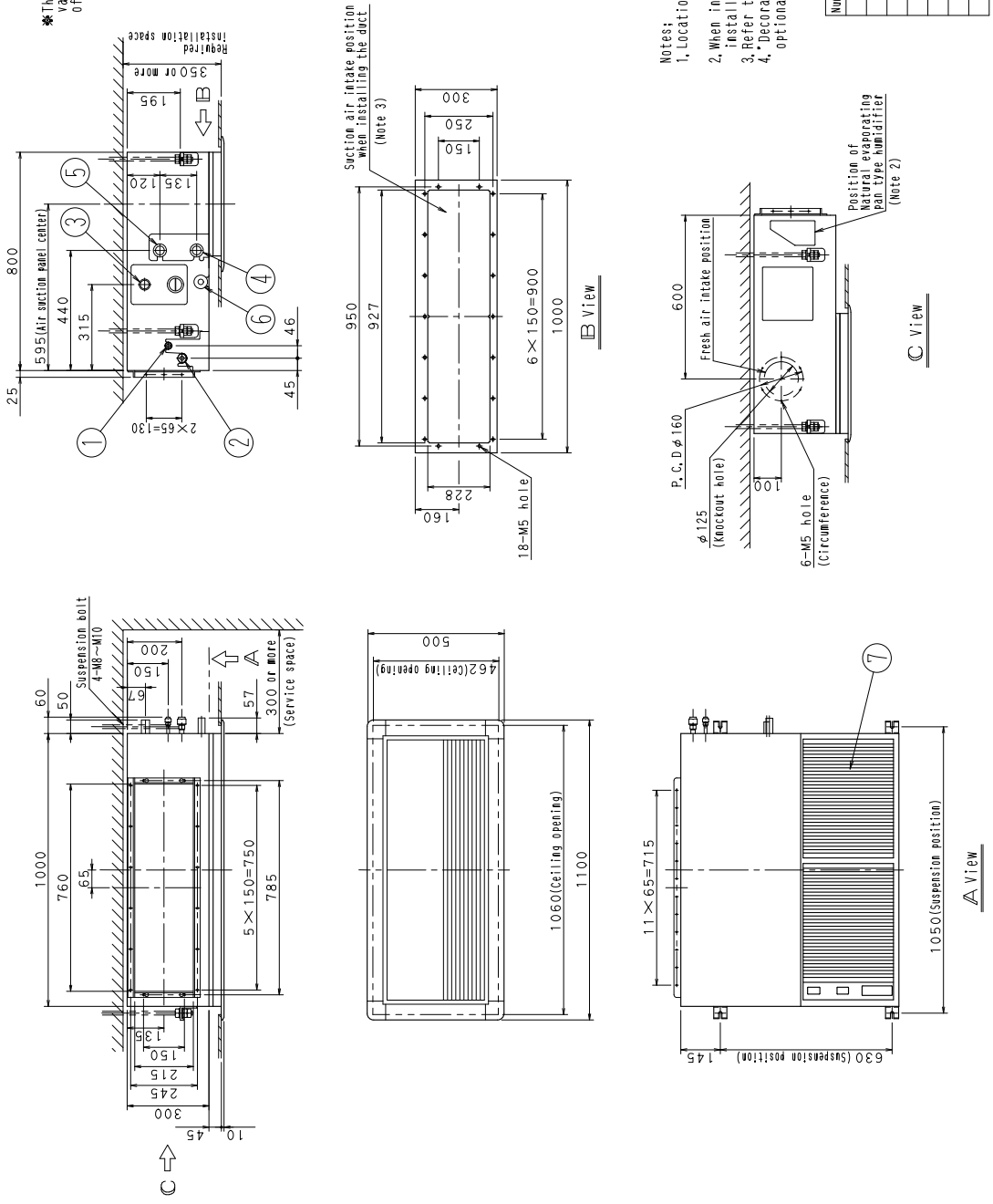
Unit (mm)

3D036950A

| Number | Name | Description |
|---|---|---|
| 1 | Liquid pipe connection | ϕ9.5 flare connection |
| 2 | Gas pipe connection | ϕ15.9 flare connection |
| 3 | Drain pipe connection | VP25(O.D. ϕ32 I.D. ϕ25) |
| 4 | Intercunit wiring port | |
| 5 | Power wiring port | |
| 6 | Drain hole | VP25(O.D. ϕ32 I.D. ϕ25) |
| 7 | Air filter | |

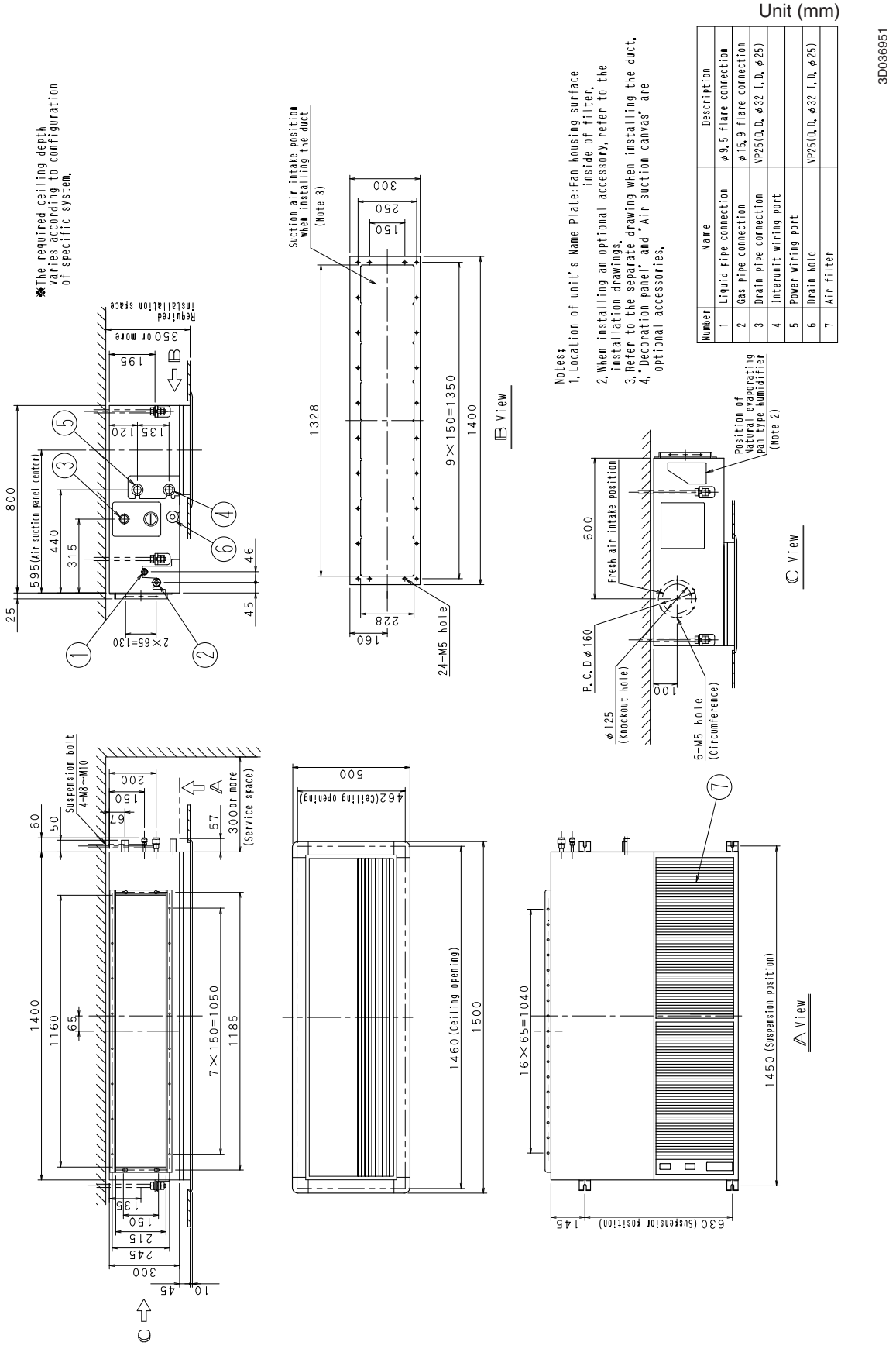
Notes:
1. Location of unit's Name Plate:Fan housing surface inside of filter.
2. When installing an optional accessory, refer to the installation drawings.
3. Refer to the separate drawing when installing the duct.
4. "Decoration panel" and "Air suction canvas" are optional accessories.

※The required ceiling depth varies according to configuration of specific system.



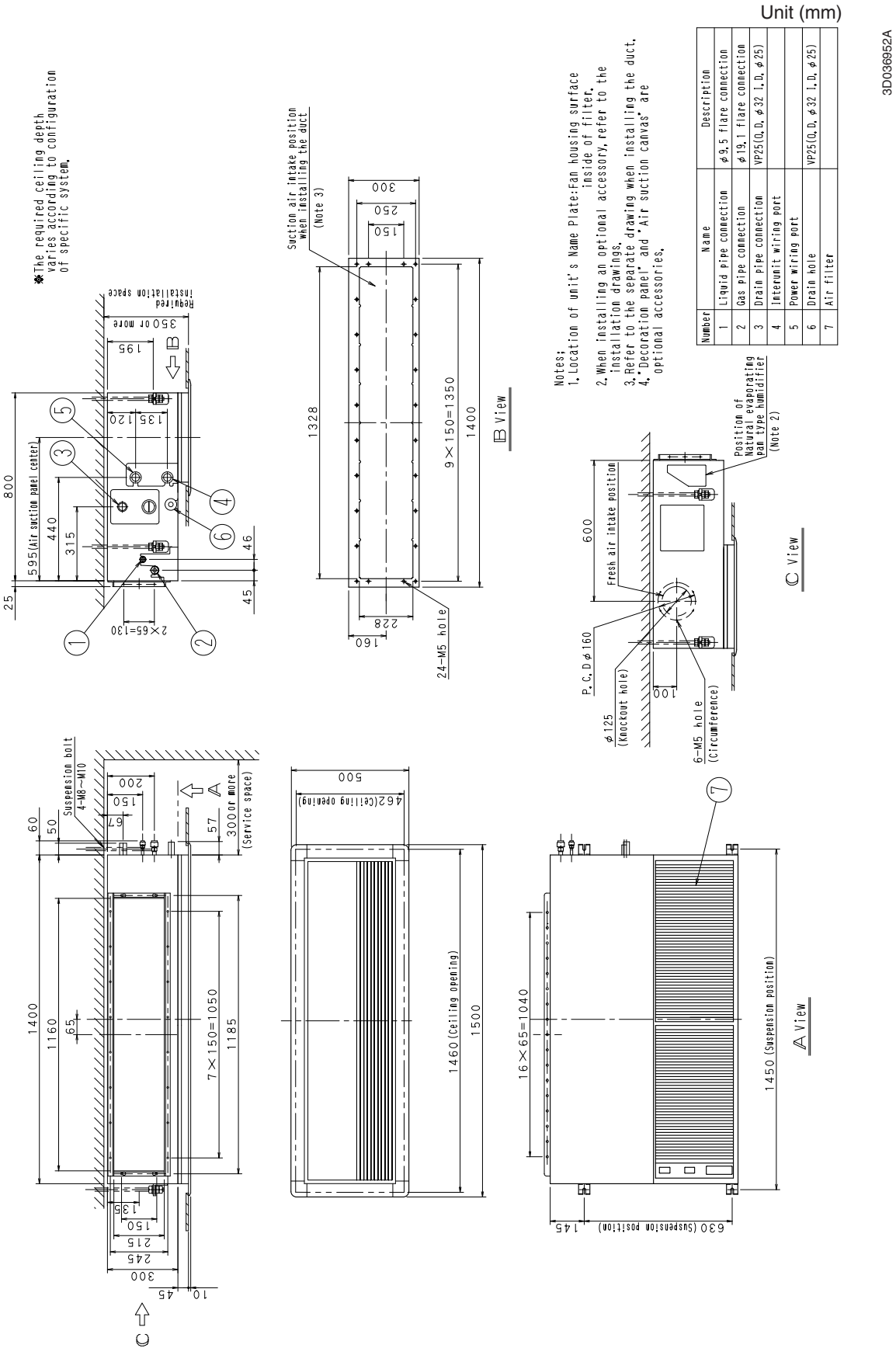
## FXS80L + BYBS125DJW1 (Without Canvas Duct)

Unit (mm)

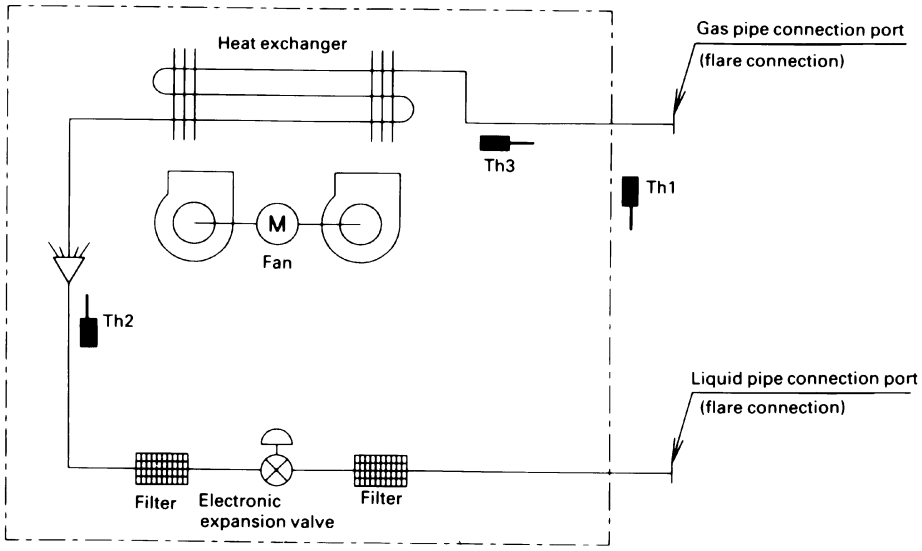


**FXS100L + BYBS125DJW1 (Without Canvas Duct)**
**FXS125L + BYBS125DJW1 (Without Canvas Duct)**

Unit (mm)



# 4. Piping Diagrams




Th1: Thermister for suction air temp.
Th2: Thermister for liquid line temp.
Th3: Thermister for gas line temp.

4D034245

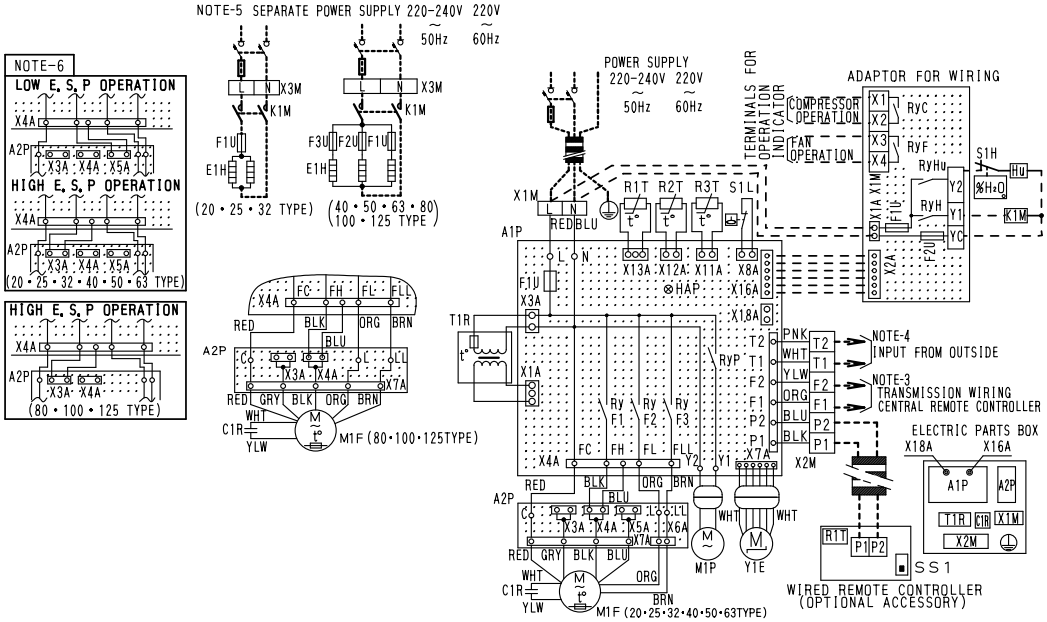
■ **Refrigerant pipe connection port diameters**

(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXS20L / 25L / 32L / 40L | ϕ12.7 | ϕ6.4 |
| FXS50L / 63L / 80L | ϕ15.9 | ϕ9.5 |
| FXS100L / 125L | ϕ19.1 | |

# 5. Wiring Diagrams

## FXS 20L / 25L / 32L / 40L / 50L / 63L / 80L / 100L / 125LVE




NOTES)
1. □□□:TERMINAL BLOCK, ⊡, ⊐ :CONNECTOR, —○— : TERMINAL
2. ----:FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
5. IN CASE INSTALLING THE ELECTRIC HEATER, EXECUTE THE ADDITIONAL WIRING FOR HEATER CIRCUIT(K1M, E1H). IN THIS CASE, THE MAIN POWER SUPPLY HAS TO BE SUPPLIED INDEPENDENTLY.
6. IN CASE HIGH OR LOW E.S.P. OPERATION, CHANGE OVER THE WIRING CONNECTION FROM X4A(OF A2P) TO X3A OR X5A.
7. SYMBOLS SHOW AS FOLLOWS, (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRW:BROWN)
8. **USE COPPER CONDUCTORS ONLY.**

| | | | |
|---|---|---|---|
| A1P | PRINTED CIRCUIT BOARD | Y1E | ELECTRONIC EXPANSION VALVE |
| A2P | TERMINAL BOARD | OPTIONAL PARTS | |
| C1R | CAPACITOR(M1F) | F1U-3U | FUSE(250V, 15A, Ⓑ) |
| F1T | THERMAL FUSE(152℃) (M1F EMBEDDED) | Hu | HUMIDIFIER |
| | | E1H | ELECTRIC HEATER |
| F1U | FUSE(250V, 10A, Ⓑ) OR F10T 250V | K1M | MAGNETIC RELAY(E1H) |
| | | S1H | HUMIDISTAT |
| | | X3M | TERMINAL STRIP(E1H) |
| HAP | LIGHT EMITTING DIODE (SERVICE MONITOR GREEN) | WIRED REMOTE CONTROLLER | |
| | | R1T | THERMISTOR(AIR) |
| M1F | MOTOR(INDOOR FAN) | SS1 | SELECTOR SWITCH(MAIN/SUB) |
| M1P | MOTOR(DRAIN PUMP) | ADAPTOR FOR WIRING | |
| R1T | THERMISTOR(AIR) | F1U・2U | FUSE (250V, 5A, Ⓑ) |
| R2T・3T | THERMISTOR(COIL) | RyC | MAGNETIC RELAY |
| RyF1-3 | MAGNETIC RELAY(M1F) | RyF | MAGNETIC RELAY |
| RyP | MAGNETIC RELAY(M1P) | RyH | MAGNETIC RELAY(E1H) |
| S1L | FLOAT SWITCH | RyHu | MAGNETIC RELAY(Hu) |
| T1R | TRANSFORMER(220-240V/22V) | CONNECTOR FOR OPTIONAL PARTS | |
| X1M | TERMINAL STRIP(POWER) | X16A | CONNECTOR(ADAPTOR FOR WIRING) |
| X2M | TERMINAL STRIP(CONTROL) | X18A | CONNECTOR( WIRING ADAPTOR FOR ELECTORICAL APPENDICES) |

3D035467

# 6. Capacity Tables

## 6.1 50Hz

### 6.1.1 Cooling Capacity

**FXS – L**

**[50Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.9 | 1.9 |
| | 12.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 14.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.8 | 1.8 |
| | 16.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.8 | 1.8 |
| | 18.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 20.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 21.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 23.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.6 | 1.7 |
| | 25.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 |
| | 27.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 |
| | 29.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 | 2.5 | 1.7 |
| | 31.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.7 |
| | 33.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.7 |
| | 35.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.4 | 1.7 |
| | 37.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.3 | 1.7 | 2.4 | 1.7 |
| | 39.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.2 | 1.8 | 2.3 | 1.7 | 2.3 | 1.6 |
| 25 | 10.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 12.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.6 | 2.2 |
| | 14.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.6 | 2.2 |
| | 16.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 18.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 20.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.4 | 2.1 |
| | 21.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.4 | 2.1 |
| | 23.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.4 | 2.1 |
| | 25.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.1 |
| | 27.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.0 |
| | 29.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.1 | 2.1 | 3.2 | 2.0 |
| | 31.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.1 | 2.1 | 3.2 | 2.0 |
| | 33.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.1 | 2.1 | 3.1 | 2.0 |
| | 35.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.1 | 3.1 | 2.0 |
| | 37.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.1 | 3.0 | 2.0 |
| | 39.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.2 | 2.9 | 2.1 | 3.0 | 2.0 |
| 32 | 10.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.7 | 2.8 |
| | 12.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.6 | 2.7 |
| | 14.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.6 | 2.7 |
| | 16.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.5 | 2.7 |
| | 18.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.5 | 2.6 |
| | 20.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.4 | 2.6 |
| | 21.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.4 | 2.6 |
| | 23.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.2 | 2.7 | 4.3 | 2.5 |
| | 25.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.2 | 2.7 | 4.3 | 2.5 |
| | 27.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.1 | 2.6 | 4.2 | 2.5 |
| | 29.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.0 | 2.6 | 4.1 | 2.5 |
| | 31.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.0 | 2.6 | 4.1 | 2.5 |
| | 33.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 3.9 | 2.6 | 4.0 | 2.4 |
| | 35.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 3.9 | 2.6 | 4.0 | 2.4 |
| | 37.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.7 | 3.8 | 2.5 | 3.9 | 2.4 |
| | 39.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.6 | 3.7 | 2.6 | 3.8 | 2.5 | 3.8 | 2.4 |
| 40 | 10.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 12.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.8 | 3.4 |
| | 14.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 16.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 18.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 20.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.5 | 3.2 |
| | 21.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.5 | 3.2 |
| | 23.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.4 | 3.2 |
| | 25.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.2 | 3.4 | 5.3 | 3.2 |
| | 27.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.1 | 3.3 | 5.2 | 3.1 |
| | 29.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.1 | 3.3 | 5.2 | 3.1 |
| | 31.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.0 | 3.3 | 5.1 | 3.1 |
| | 33.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 4.9 | 3.2 | 5.0 | 3.1 |
| | 35.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.7 | 3.4 | 4.8 | 3.2 | 4.9 | 3.0 |
| | 37.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.7 | 3.3 | 4.8 | 3.2 | 4.9 | 3.0 |
| | 39.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.6 | 3.3 | 4.7 | 3.2 | 4.8 | 3.0 |

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 12.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.2 | 4.2 |
| | 14.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.1 | 4.1 |
| | 16.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.0 | 4.1 |
| | 18.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 6.9 | 4.0 |
| | 20.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 6.8 | 4.0 |
| | 21.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 6.8 | 3.9 |
| | 23.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 6.7 | 3.9 |
| | 25.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.5 | 4.1 | 6.6 | 3.9 |
| | 27.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.4 | 4.1 | 6.5 | 3.8 |
| | 29.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.3 | 4.0 | 6.4 | 3.8 |
| | 31.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.2 | 4.0 | 6.3 | 3.8 |
| | 33.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.1 | 3.9 | 6.2 | 3.8 |
| | 35.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.0 | 3.9 | 6.2 | 3.7 |
| | 37.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.8 | 4.1 | 5.9 | 3.9 | 6.1 | 3.7 |
| | 39.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 4.0 | 5.7 | 4.0 | 5.8 | 3.9 | 6.0 | 3.7 |
| 63 | 10.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.3 | 5.6 |
| | 12.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.1 | 5.5 |
| | 14.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.0 | 5.4 |
| | 16.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.9 | 5.4 |
| | 18.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.8 | 5.3 |
| | 20.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.7 | 5.2 |
| | 21.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.6 | 5.2 |
| | 23.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.3 | 5.5 | 8.5 | 5.1 |
| | 25.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.2 | 5.4 | 8.4 | 5.1 |
| | 27.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.1 | 5.4 | 8.3 | 5.1 |
| | 29.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.0 | 5.3 | 8.2 | 5.0 |
| | 31.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 7.9 | 5.3 | 8.0 | 5.0 |
| | 33.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 7.8 | 5.2 | 7.9 | 5.0 |
| | 35.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 7.6 | 5.2 | 7.8 | 4.9 |
| | 37.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.4 | 5.4 | 7.5 | 5.1 | 7.7 | 4.9 |
| | 39.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.2 | 5.4 | 7.4 | 5.1 | 7.6 | 4.9 |
| 80 | 10.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.7 | 6.8 |
| | 12.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.6 | 6.7 |
| | 14.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.4 | 6.6 |
| | 16.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.3 | 6.6 |
| | 18.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.1 | 6.5 |
| | 20.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.0 | 6.4 |
| | 21.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 10.9 | 6.3 |
| | 23.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.6 | 6.7 | 10.8 | 6.3 |
| | 25.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.4 | 6.6 | 10.6 | 6.2 |
| | 27.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.3 | 6.5 | 10.5 | 6.2 |
| | 29.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.1 | 6.5 | 10.3 | 6.1 |
| | 31.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.0 | 6.4 | 10.2 | 6.1 |
| | 33.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 9.8 | 6.4 | 10.0 | 6.0 |
| | 35.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.5 | 6.6 | 9.7 | 6.3 | 9.9 | 6.0 |
| | 37.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.4 | 9.3 | 6.6 | 9.5 | 6.3 | 9.7 | 6.0 |
| | 39.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.4 | 9.2 | 6.5 | 9.4 | 6.2 | 9.6 | 5.9 |
| 100 | 10.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.6 | 8.5 |
| | 12.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.4 | 8.4 |
| | 14.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.2 | 8.3 |
| | 16.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.1 | 8.2 |
| | 18.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 13.9 | 8.0 |
| | 20.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 13.7 | 7.9 |
| | 21.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 13.6 | 7.9 |
| | 23.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.2 | 8.3 | 13.4 | 7.8 |
| | 25.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.0 | 8.2 | 13.2 | 7.7 |
| | 27.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 12.8 | 8.1 | 13.0 | 7.6 |
| | 29.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 12.6 | 8.0 | 12.9 | 7.6 |
| | 31.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 12.4 | 7.9 | 12.7 | 7.5 |
| | 33.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 12.2 | 7.9 | 12.5 | 7.5 |
| | 35.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.8 | 8.2 | 12.0 | 7.8 | 12.3 | 7.5 |
| | 37.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.6 | 8.1 | 11.9 | 7.8 | 12.1 | 7.4 |
| | 39.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.4 | 8.1 | 11.7 | 7.7 | 11.9 | 7.3 |

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 125 | 10.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.3 | 10.6 |
| | 12.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.0 | 10.5 |
| | 14.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.8 | 10.3 |
| | 16.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.6 | 10.2 |
| | 18.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.3 | 10.1 |
| | 20.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.1 | 9.9 |
| | 21.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.0 | 9.9 |
| | 23.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.4 | 10.4 | 16.8 | 9.8 |
| | 25.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.2 | 10.3 | 16.5 | 9.7 |
| | 27.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.0 | 10.1 | 16.3 | 9.6 |
| | 29.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 15.7 | 10.1 | 16.1 | 9.5 |
| | 31.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 15.5 | 9.9 | 15.8 | 9.5 |
| | 33.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 15.3 | 9.9 | 15.6 | 9.4 |
| | 35.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.7 | 10.3 | 15.1 | 9.8 | 15.4 | 9.3 |
| | 37.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.5 | 10.2 | 14.8 | 9.7 | 15.1 | 9.3 |
| | 39.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.9 | 14.3 | 10.2 | 14.6 | 9.6 | 14.9 | 9.2 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.1.2 Heating Capacity

### FXS-L

**[50Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| | -12.6 | -13.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -10.5 | -11.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -9.5 | -10.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -8.5 | -9.1 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -7.0 | -7.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -5.0 | -5.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -3.0 | -3.7 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | 0.0 | -0.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 3.0 | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -12.6 | -13.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -10.5 | -11.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | -9.5 | -10.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -8.5 | -9.1 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -7.0 | -7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -5.0 | -5.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -3.0 | -3.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | 0.0 | -0.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 3.0 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -12.6 | -13.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -10.5 | -11.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | -9.5 | -10.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -8.5 | -9.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -7.0 | -7.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -5.0 | -5.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -3.0 | -3.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | 0.0 | -0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 3.0 | 2.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.4 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -12.6 | -13.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -10.5 | -11.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -9.5 | -10.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -8.5 | -9.1 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| | -7.0 | -7.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -5.0 | -5.6 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -3.0 | -3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | 0.0 | -0.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 3.0 | 2.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.5 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.7 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

7

## [50Hz]

**Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -12.6 | -13.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | -10.5 | -11.0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| | -9.5 | -10.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| | -8.5 | -9.1 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | -7.0 | -7.6 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -5.0 | -5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -3.0 | -3.7 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | 0.0 | -0.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 3.0 | 2.2 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.1 | 6.1 | 6.1 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 6.9 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.1 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 80 | -14.7 | -15.0 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| | -12.6 | -13.0 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | -10.5 | -11.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| | -9.5 | -10.0 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| | -8.5 | -9.1 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| | -7.0 | -7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| | -5.0 | -5.6 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| | -3.0 | -3.7 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| | 0.0 | -0.7 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.4 |
| | 3.0 | 2.2 | 9.3 | 9.3 | 9.3 | 9.3 | 9.2 | 8.4 |
| | 5.0 | 4.1 | 9.6 | 9.6 | 9.6 | 9.6 | 9.2 | 8.4 |
| | 7.0 | 6.0 | 10.0 | 10.0 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 9.0 | 7.9 | 10.3 | 10.3 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 11.0 | 9.8 | 10.6 | 10.6 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 13.0 | 11.8 | 11.0 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 15.0 | 13.7 | 11.3 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| 100 | -14.7 | -15.0 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| | -12.6 | -13.0 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| | -10.5 | -11.0 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| | -9.5 | -10.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| | -8.5 | -9.1 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 |
| | -7.0 | -7.6 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| | -5.0 | -5.6 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| | -3.0 | -3.7 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| | 0.0 | -0.7 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 10.5 |
| | 3.0 | 2.2 | 11.7 | 11.7 | 11.7 | 11.7 | 11.5 | 10.5 |
| | 5.0 | 4.1 | 12.1 | 12.1 | 12.1 | 12.0 | 11.5 | 10.5 |
| | 7.0 | 6.0 | 12.5 | 12.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 9.0 | 7.9 | 12.9 | 12.9 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 11.0 | 9.8 | 13.3 | 13.3 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 13.0 | 11.8 | 13.8 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 15.0 | 13.7 | 14.2 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |

## [50Hz]

**Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 125 | -14.7 | -15.0 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| | -12.6 | -13.0 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| | -10.5 | -11.0 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| | -9.5 | -10.0 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| | -8.5 | -9.1 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | -7.0 | -7.6 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| | -5.0 | -5.6 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| | -3.0 | -3.7 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |
| | 0.0 | -0.7 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 13.5 |
| | 3.0 | 2.2 | 14.9 | 14.9 | 14.9 | 14.9 | 14.7 | 13.5 |
| | 5.0 | 4.1 | 15.4 | 15.4 | 15.4 | 15.3 | 14.7 | 13.5 |
| | 7.0 | 6.0 | 16.0 | 16.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 9.0 | 7.9 | 16.5 | 16.5 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 11.0 | 9.8 | 17.0 | 17.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 13.0 | 11.8 | 17.5 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 15.0 | 13.7 | 18.1 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW



Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

# 6.2 60Hz

## 6.2.1 Cooling Capacity

**FXS – L**

**[60Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.9 | 1.9 |
| | 12.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.9 | 1.9 |
| | 14.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.9 | 1.9 |
| | 16.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.9 | 1.9 |
| | 18.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.9 | 1.9 |
| | 20.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.9 | 1.9 |
| | 21.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.9 | 1.9 |
| | 23.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 25.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 27.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 29.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 31.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 33.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 35.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.6 | 1.9 | 2.6 | 1.8 |
| | 37.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.8 |
| | 39.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.9 | 2.5 | 1.9 | 2.5 | 1.8 |
| 25 | 10.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 12.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 14.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 16.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 18.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 20.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 21.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 23.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.6 | 2.3 |
| | 25.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.6 | 2.2 |
| | 27.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 29.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.3 | 3.5 | 2.2 |
| | 31.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.3 | 3.4 | 2.2 |
| | 33.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.3 | 3.4 | 2.2 |
| | 35.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.3 | 3.3 | 2.2 |
| | 37.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.3 | 3.2 | 2.3 | 3.3 | 2.1 |
| | 39.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.3 | 3.2 | 2.2 | 3.2 | 2.1 |
| 32 | 10.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.7 | 2.8 |
| | 12.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.7 | 2.8 |
| | 14.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.7 | 2.8 |
| | 16.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.7 | 2.8 |
| | 18.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.7 | 2.8 |
| | 20.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.7 | 2.8 |
| | 21.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.7 | 2.8 |
| | 23.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.7 | 2.7 |
| | 25.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.6 | 2.7 |
| | 27.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.5 | 2.7 |
| | 29.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.5 | 2.7 |
| | 31.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.8 | 4.4 | 2.7 |
| | 33.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.8 | 4.3 | 2.6 |
| | 35.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.2 | 2.8 | 4.3 | 2.6 |
| | 37.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.1 | 2.7 | 4.2 | 2.6 |
| | 39.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.7 | 4.1 | 2.7 | 4.2 | 2.6 |
| 40 | 10.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 12.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 14.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 16.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 18.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 20.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 21.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 23.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.8 | 3.4 |
| | 25.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 27.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 29.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.5 | 5.6 | 3.4 |
| | 31.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.5 | 5.5 | 3.3 |
| | 33.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.5 | 5.4 | 3.3 |
| | 35.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.2 | 3.5 | 5.4 | 3.3 |
| | 37.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.2 | 3.4 | 5.3 | 3.3 |
| | 39.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.1 | 3.4 | 5.2 | 3.2 |

## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.3 |
| | 12.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.3 |
| | 14.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.3 |
| | 16.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.3 |
| | 18.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.3 |
| | 20.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.3 |
| | 21.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.3 |
| | 23.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 25.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.2 | 4.2 |
| | 27.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.1 | 4.2 |
| | 29.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.0 | 4.1 |
| | 31.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.3 | 6.9 | 4.1 |
| | 33.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.3 | 6.8 | 4.1 |
| | 35.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.2 | 6.5 | 4.2 | 6.7 | 4.0 |
| | 37.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.2 | 6.4 | 4.2 | 6.6 | 4.0 |
| | 39.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 4.0 | 5.9 | 4.2 | 6.3 | 4.2 | 6.5 | 4.0 |
| 63 | 10.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.3 | 5.6 |
| | 12.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.3 | 5.6 |
| | 14.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.3 | 5.6 |
| | 16.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.3 | 5.6 |
| | 18.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.3 | 5.6 |
| | 20.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.3 | 5.6 |
| | 21.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.3 | 5.6 |
| | 23.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.2 | 5.6 |
| | 25.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.1 | 5.5 |
| | 27.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.9 | 5.5 |
| | 29.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.8 | 5.4 |
| | 31.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.7 | 5.4 |
| | 33.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.7 | 8.6 | 5.4 |
| | 35.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.3 | 5.6 | 8.4 | 5.3 |
| | 37.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.1 | 5.6 | 8.3 | 5.3 |
| | 39.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.6 | 8.0 | 5.5 | 8.2 | 5.3 |
| 80 | 10.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.8 | 6.8 |
| | 12.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.8 | 6.8 |
| | 14.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.8 | 6.8 |
| | 16.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.8 | 6.8 |
| | 18.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.8 | 6.8 |
| | 20.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.8 | 6.8 |
| | 21.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.8 | 6.8 |
| | 23.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.7 | 6.8 |
| | 25.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.5 | 6.8 |
| | 27.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.3 | 6.7 |
| | 29.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.2 | 6.6 |
| | 31.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.9 | 11.0 | 6.6 |
| | 33.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.6 | 6.9 | 10.9 | 6.5 |
| | 35.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.5 | 6.8 | 10.7 | 6.5 |
| | 37.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.4 | 9.6 | 6.8 | 10.3 | 6.8 | 10.5 | 6.4 |
| | 39.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.4 | 9.6 | 6.8 | 10.2 | 6.7 | 10.4 | 6.4 |
| 100 | 10.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.7 | 8.5 |
| | 12.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.7 | 8.5 |
| | 14.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.7 | 8.5 |
| | 16.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.7 | 8.5 |
| | 18.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.7 | 8.5 |
| | 20.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.7 | 8.5 |
| | 21.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.7 | 8.5 |
| | 23.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.5 | 8.4 |
| | 25.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.3 | 8.3 |
| | 27.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.1 | 8.3 |
| | 29.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 13.9 | 8.2 |
| | 31.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.5 | 13.7 | 8.1 |
| | 33.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.2 | 8.5 | 13.5 | 8.1 |
| | 35.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.0 | 8.5 | 13.3 | 8.1 |
| | 37.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.4 | 12.8 | 8.4 | 13.1 | 8.0 |
| | 39.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.4 | 12.6 | 8.3 | 12.9 | 7.9 |

## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 125 | 10.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.3 | 10.6 |
| | 12.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.3 | 10.6 |
| | 14.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.3 | 10.6 |
| | 16.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.3 | 10.6 |
| | 18.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.3 | 10.6 |
| | 20.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.3 | 10.6 |
| | 21.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.3 | 10.6 |
| | 23.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.1 | 10.6 |
| | 25.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.9 | 10.5 |
| | 27.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.6 | 10.4 |
| | 29.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.6 | 17.4 | 10.3 |
| | 31.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.6 | 17.1 | 10.2 |
| | 33.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.5 | 10.7 | 16.9 | 10.1 |
| | 35.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.4 | 16.3 | 10.6 | 16.6 | 10.1 |
| | 37.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.5 | 16.0 | 10.5 | 16.4 | 10.0 |
| | 39.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.9 | 14.9 | 10.6 | 15.8 | 10.4 | 16.1 | 9.9 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2.2 Heating Capacity

### FXS-L

**[60Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -12.6 | -13.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -10.5 | -11.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -9.5 | -10.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -8.5 | -9.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -7.0 | -7.6 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -5.0 | -5.6 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | -3.0 | -3.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 0.0 | -0.7 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 3.0 | 2.2 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -12.6 | -13.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -10.5 | -11.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -9.5 | -10.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -8.5 | -9.1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -7.0 | -7.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -5.0 | -5.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -3.0 | -3.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 0.0 | -0.7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 3.0 | 2.2 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -12.6 | -13.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -10.5 | -11.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -9.5 | -10.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -8.5 | -9.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -7.0 | -7.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | -5.0 | -5.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| | -3.0 | -3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 0.0 | -0.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 3.0 | 2.2 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.5 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -12.6 | -13.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -10.5 | -11.0 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| | -9.5 | -10.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -8.5 | -9.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -7.0 | -7.6 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| | -5.0 | -5.6 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| | -3.0 | -3.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 0.0 | -0.7 | 4.8 | 4.8 | 4.8 | 4.8 | 4.6 | 4.2 |
| | 3.0 | 2.2 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.6 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

7

## [60Hz]

**Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | -12.6 | -13.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | -10.5 | -11.0 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -9.5 | -10.0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| | -8.5 | -9.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -7.0 | -7.6 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | -5.0 | -5.6 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.3 |
| | -3.0 | -3.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 0.0 | -0.7 | 6.0 | 6.0 | 6.0 | 6.0 | 5.8 | 5.3 |
| | 3.0 | 2.2 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 7.0 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 7.2 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | -12.6 | -13.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -10.5 | -11.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | -9.5 | -10.0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -8.5 | -9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -7.0 | -7.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| | -5.0 | -5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | -3.0 | -3.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.8 |
| | 0.0 | -0.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.4 | 6.8 |
| | 3.0 | 2.2 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.9 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 9.2 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 80 | -14.7 | -15.0 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| | -12.6 | -13.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| | -10.5 | -11.0 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| | -9.5 | -10.0 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| | -8.5 | -9.1 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| | -7.0 | -7.6 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| | -5.0 | -5.6 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.4 |
| | -3.0 | -3.7 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.4 |
| | 0.0 | -0.7 | 9.4 | 9.4 | 9.4 | 9.4 | 9.2 | 8.4 |
| | 3.0 | 2.2 | 10.0 | 10.0 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 5.0 | 4.1 | 10.3 | 10.3 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 7.0 | 6.0 | 10.7 | 10.7 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 9.0 | 7.9 | 11.1 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 11.0 | 9.8 | 11.4 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 13.0 | 11.8 | 11.6 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 15.0 | 13.7 | 11.6 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| 100 | -14.7 | -15.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| | -12.6 | -13.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| | -10.5 | -11.0 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 |
| | -9.5 | -10.0 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 |
| | -8.5 | -9.1 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| | -7.0 | -7.6 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| | -5.0 | -5.6 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.5 |
| | -3.0 | -3.7 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 10.5 |
| | 0.0 | -0.7 | 11.8 | 11.8 | 11.8 | 11.8 | 11.5 | 10.5 |
| | 3.0 | 2.2 | 12.5 | 12.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 5.0 | 4.1 | 13.0 | 13.0 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 7.0 | 6.0 | 13.4 | 13.4 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 9.0 | 7.9 | 13.8 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 11.0 | 9.8 | 14.3 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 13.0 | 11.8 | 14.5 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 15.0 | 13.7 | 14.5 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |

**[60Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 125 | -14.7 | -15.0 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| | -12.6 | -13.0 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| | -10.5 | -11.0 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| | -9.5 | -10.0 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 |
| | -8.5 | -9.1 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 |
| | -7.0 | -7.6 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 |
| | -5.0 | -5.6 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.5 |
| | -3.0 | -3.7 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 13.5 |
| | 0.0 | -0.7 | 15.1 | 15.1 | 15.1 | 15.1 | 14.7 | 13.5 |
| | 3.0 | 2.2 | 16.0 | 16.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 5.0 | 4.1 | 16.5 | 16.5 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 7.0 | 6.0 | 17.1 | 17.1 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 9.0 | 7.9 | 17.6 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 11.0 | 9.8 | 18.2 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 13.0 | 11.8 | 18.4 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 15.0 | 13.7 | 18.4 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

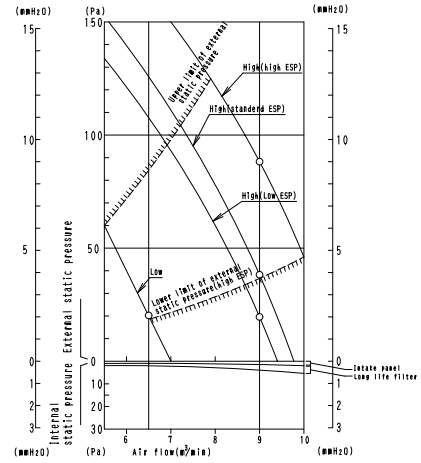
7

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

# 7. Fan Performances

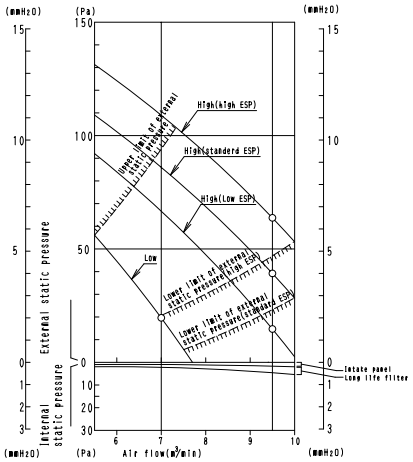
## 7.1 50Hz

**FXS20L·25L**



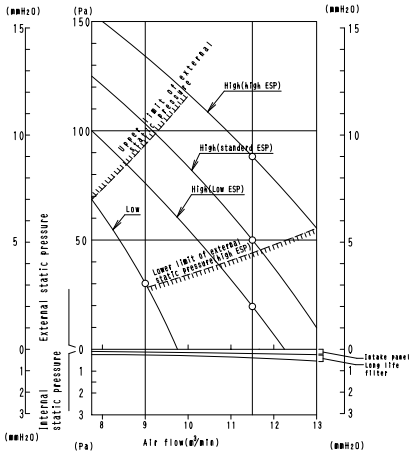

3D036959-5

**FXS32L**



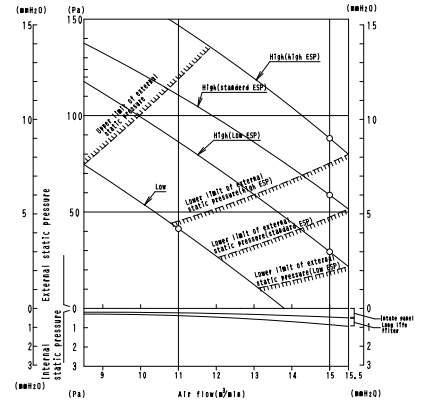

3D036960-5

**FXS40L**



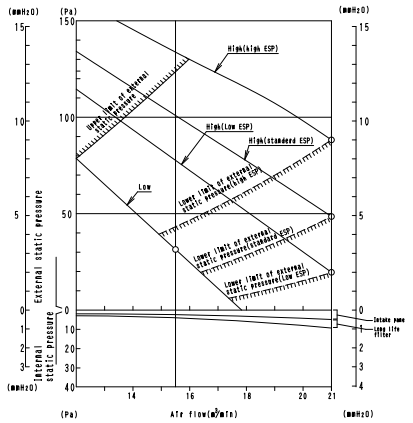

3D036961-5

**FXS50L**



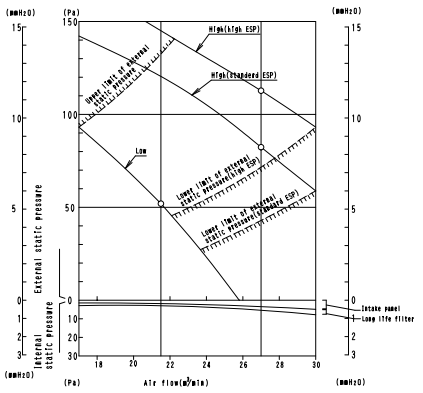

3D036962-5

**FXS63L**



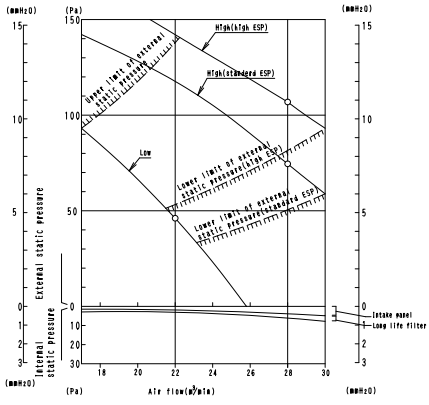

3D036963-5

**FXS80L**



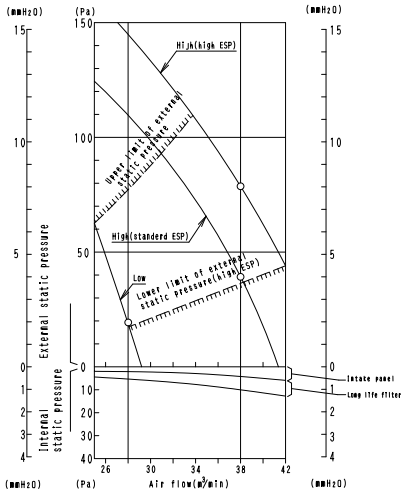

3D036964-5

**FXS100L**




3D036965-5

**FXS125L**



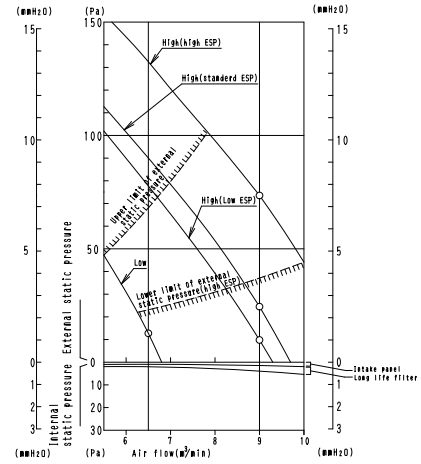

3D036966-5

**Note:**

1. The remote controller can be used to switch between “high” and “low”.
2. The air flow is set to “standard” before leaving the factory. It is possible to switch between “standard ESP” and “high ESP” by changing the terminals in the indoor unit electrical box.
3. The external static pressure indicates the characteristics of the fan when a suction panel (optional accessory) and a canvas for the suction panel (optional accessory) are incorporated into the main unit (with a long-life filter).

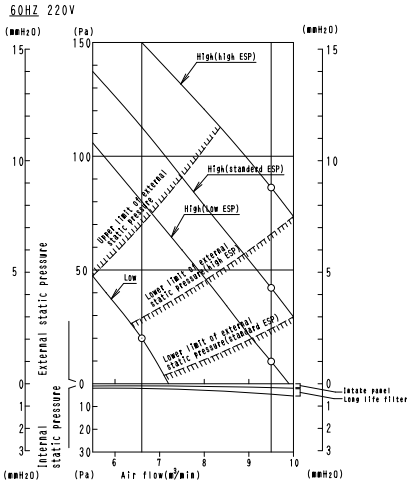
## 7.2 60Hz

**FXS20L·25L**



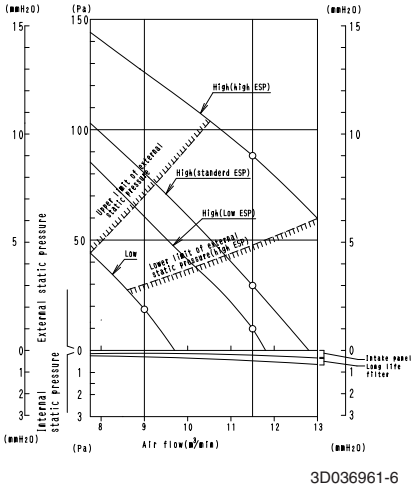

3D036959-6

**FXS32L**



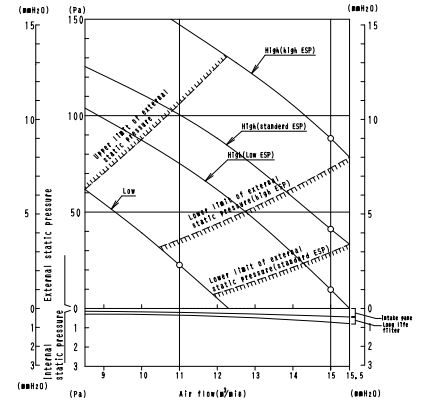

3D036960-6

**FXS40L**



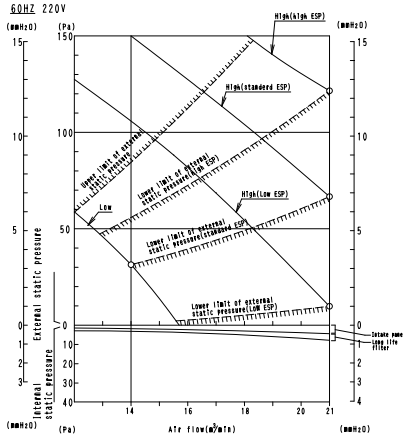

3D036961-6

**FXS50L**



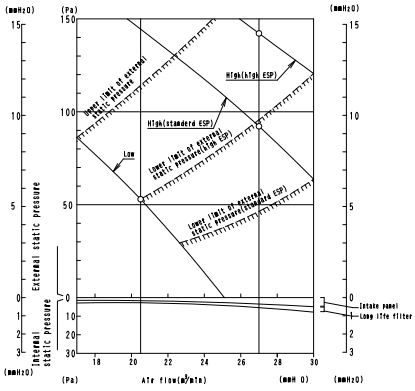

3D036962-6

**FXS63L**



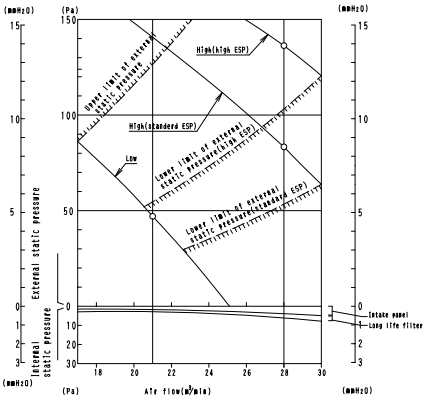

3D036963-6

**FXS80L**



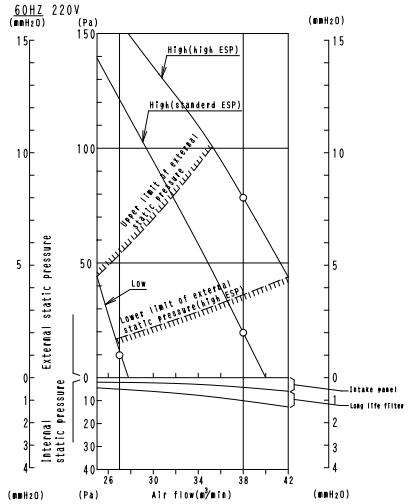

3D036964-6

**FXS100L**




3D036965-6

**FXS125L**




3D036966-6

**Note:**

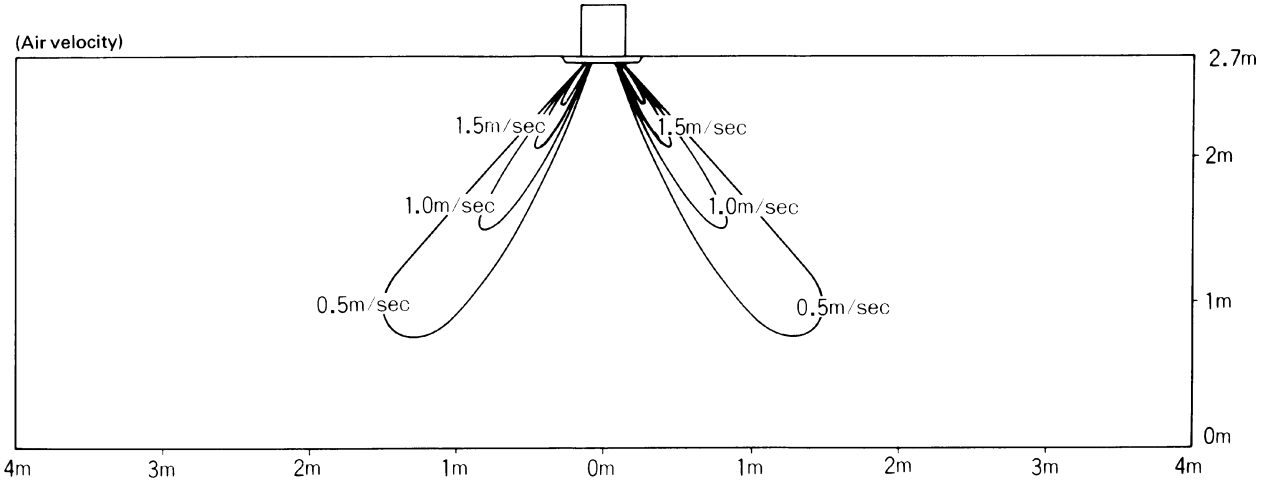
1. The remote controller can be used to switch between “high” and “low”.
2. The air flow is set to “standard” before leaving the factory. It is possible to switch between “standard ESP” and “high ESP” by changing the terminals in the indoor unit electrical box.

The external static pressure indicates the characteristics of the fan when a suction panel (optional accessory) and a canvas for the suction panel (optional accessory) are incorporated into the main unit (with a long-life filter).

# 8. Air Velocity and Temperature Distributions (Reference Data)

**FXS63L**

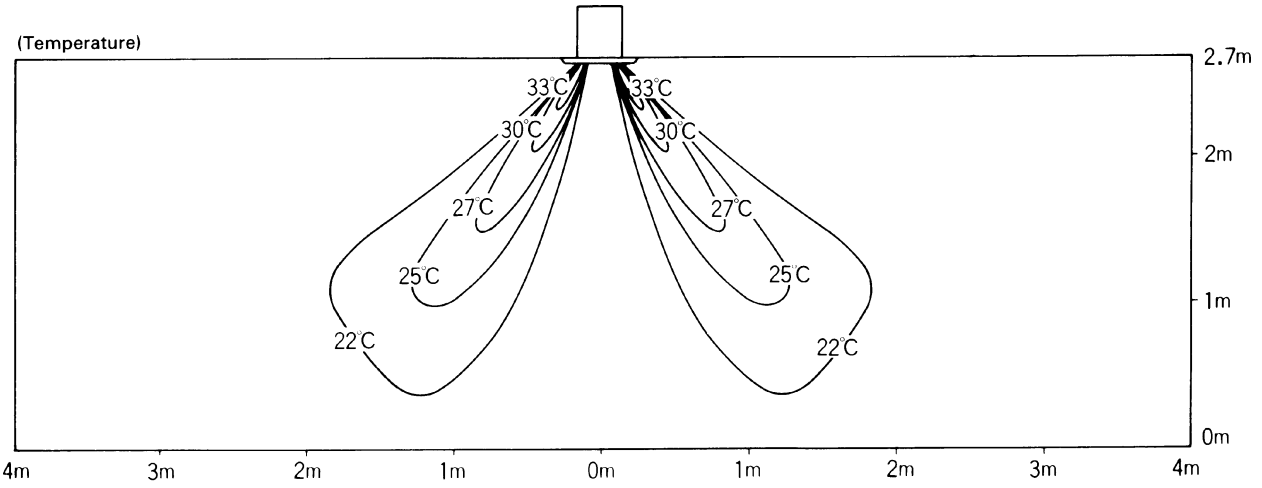
**(Heating·Air Velocity Distribution)**
**In case of 9m³/min Air Flow**




(V0462)

**FXS63L**

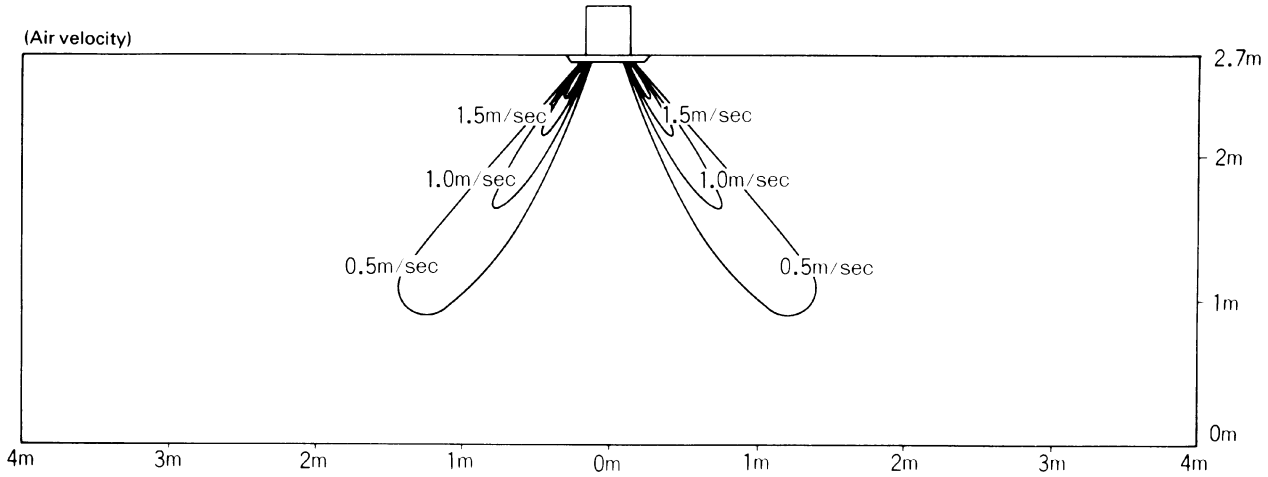
**(Heating·Temperature Distribution)**
**In case of 9m³/min Air Flow**




(V0463)

**FXS125L**

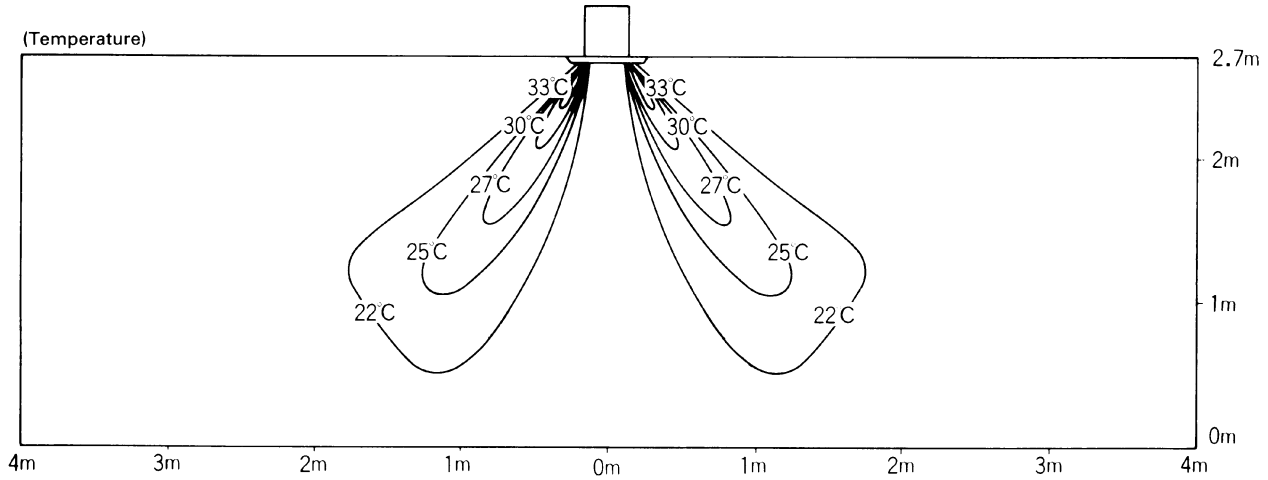
**(Heating·Air Velocity Distribution)**
**In case of 9m³/min Air Flow**




(V0464)

**FXS125L**

**(Heating·Temperature Distribution)**
**In case of 9m³/min Air Flow**




(V0465)

7

# 9. Electric Characteristics

| Units | | | | | Power supply | | IFM | | Input(W) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Type | Hz | Volts | Voltage range | MCA | MFA | KW | FLA | Cooling | Heating |
| FXS20L FXSQ20M | VE | 50 | 220-240 | MAX. 264 Min. 198 | 0.5 | 15 | 0.05 | 0.4 | 110 | 90 |
| FXS25L FXSQ25M | | | | | 0.5 | 15 | 0.05 | 0.4 | 110 | 90 |
| FXS32L FXSQ32M | | | | | 0.5 | 15 | 0.05 | 0.4 | 114 | 94 |
| FXS40L FXSQ40M | | | | | 0.6 | 15 | 0.065 | 0.5 | 127 | 107 |
| FXS50L FXSQ50M | | | | | 0.9 | 15 | 0.085 | 0.7 | 143 | 123 |
| FXS63L FXSQ63M | | | | | 1.1 | 15 | 0.125 | 0.9 | 189 | 169 |
| FXS80L FXSQ80M | | | | | 1.4 | 15 | 0.225 | 1.1 | 234 | 214 |
| FXS100L FXSQ100M | | | | | 1.5 | 15 | 0.225 | 1.2 | 242 | 222 |
| FXS125L FXSQ125M | | | | | 2.0 | 15 | 0.225 | 1.6 | 321 | 301 |
| FXS20L FXSQ20M | VE | 60 | 220 | MAX. 242 Min. 198 | 0.6 | 15 | 0.05 | 0.5 | 128 | 108 |
| FXS25L FXSQ25M | | | | | 0.6 | 15 | 0.05 | 0.5 | 128 | 108 |
| FXS32L FXSQ32M | | | | | 0.8 | 15 | 0.05 | 0.6 | 136 | 116 |
| FXS40L FXSQ40M | | | | | 0.9 | 15 | 0.065 | 0.7 | 155 | 135 |
| FXS50L FXSQ50M | | | | | 1.0 | 15 | 0.085 | 0.8 | 200 | 180 |
| FXS63L FXSQ63M | | | | | 1.4 | 15 | 0.125 | 1.1 | 254 | 234 |
| FXS80L FXSQ80M | | | | | 1.8 | 15 | 0.225 | 1.4 | 315 | 295 |
| FXS100L FXSQ100M | | | | | 1.9 | 15 | 0.225 | 1.5 | 326 | 306 |
| FXS125L FXSQ125M | | | | | 2.5 | 15 | 0.225 | 2.0 | 435 | 415 |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
KW : Fan Motor Rated Output(KW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range

   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

   MCA = 1.25 X FLA

   MFA ≦ 4 X FLA

   (Next lower standard fuse rating. Min. 15A)

4. Select wire size based on the MCA.

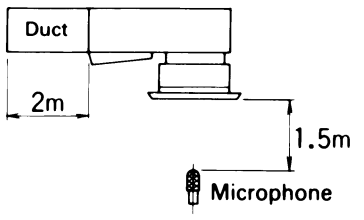
5. Instead of fuse, use Circuit Breaker.

4D036936A

# 10. Sound Levels

## Overall

■ **Ceiling Mounted Built-In Type**




JC : DU220-424A

**Notes:**

1. The operating conditions are assumed to be standard (JIS conditions)
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

dBA

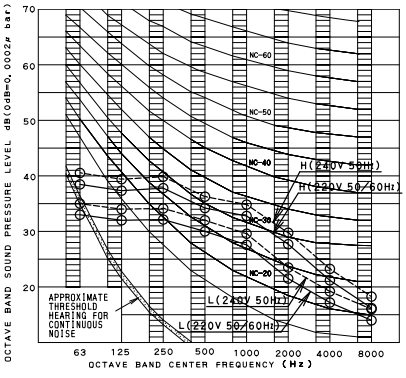
| Model | 220V 50Hz | | 240V 50Hz | | 220V 60Hz | |
|---|---|---|---|---|---|---|
| | H | L | H | L | H | L |
| FXS20L<br>FXS25L | 37 | 32 | 39 | 34 | 37 | 32 |
| FXS32L<br>FXS40L | 38 | 32 | 40 | 34 | 38 | 32 |
| FXS50L | 41 | 36 | 43 | 38 | 41 | 36 |
| FXS63L | 42 | 35 | 44 | 37 | 43 | 35 |
| FXS80L<br>FXS100L | 43 | 37 | 45 | 39 | 43 | 37 |
| FXS125L | 46 | 41 | 48 | 43 | 46 | 41 |

7

## Octave Band Level

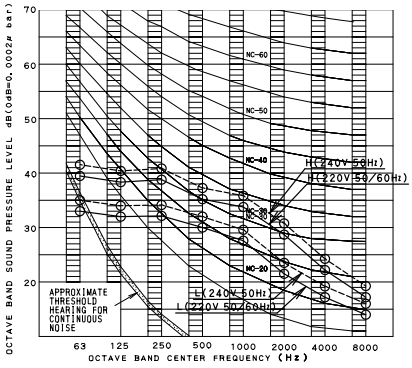
○——○ 220V
○- - - -○ 240V

### FXS20L·25LVE



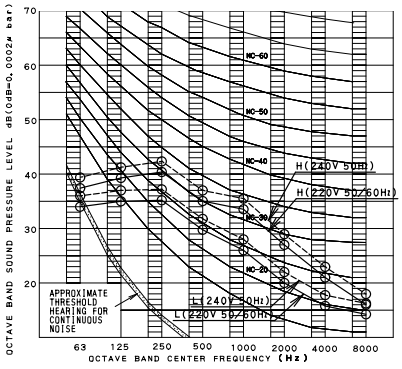

4D036937

### FXS32LVE



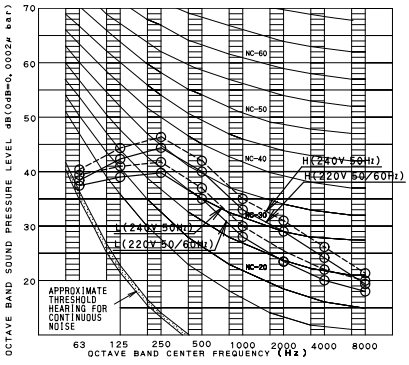

4D036938

### FXS40LVE



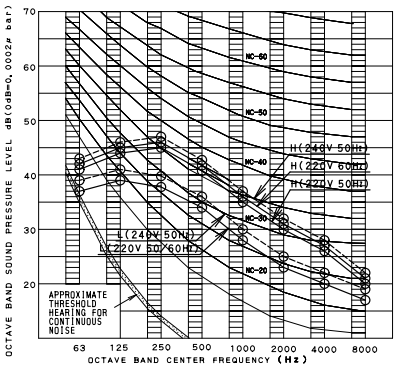

4D036939

### FXS50LVE



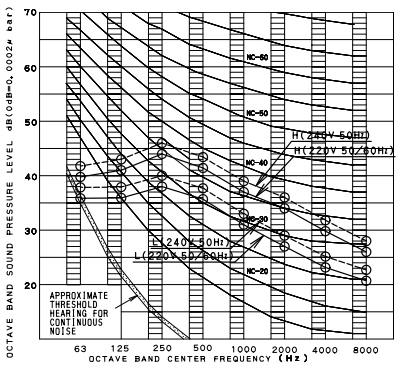

4D036940

### FXS63LVE



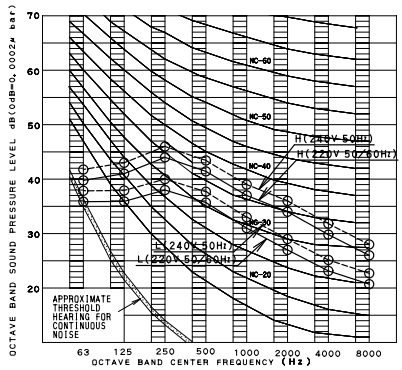

4D036941

### FXS80LVE



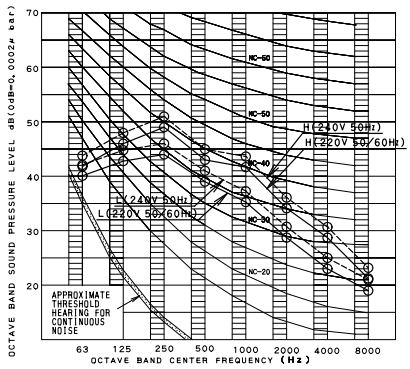

4D036942

### FXS100LVE




4D036943

### FXS125LVE

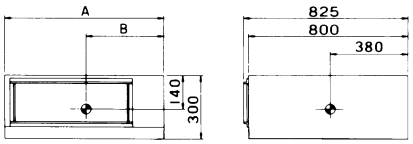



4D036944

# 11. Installation

## Center of Gravity

Unit (mm)




| Model | A | B |
|---|---|---|
| FXS20L·25L·32L | 550 | 250 |
| FXS40L·50L | 700 | 300 |
| FXS63L | 1000 | 460 |
| FXS80L·100L·125L | 1400 | 640 |

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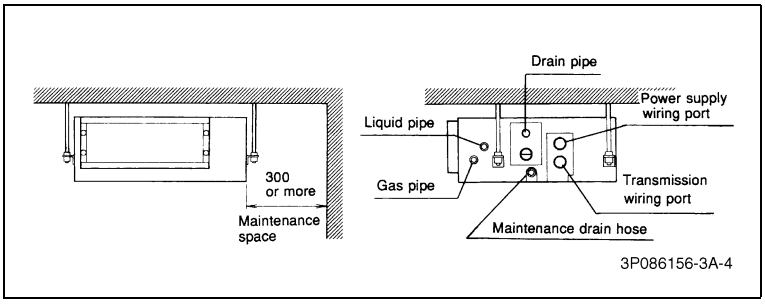
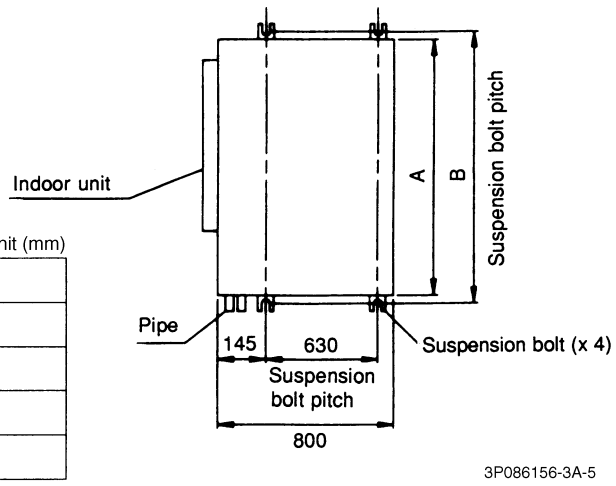
## Service Space

Unit (mm)




**Note:**
Above figure means minimum value. Please keep these value at least.

## Bolt Pitch




Unit (mm)

| Model | A | B |
|---|---|---|
| FXS20 • 25 • 32L | 550 | 600 |
| FXS40 • 50L | 700 | 750 |
| FXS63L | 1000 | 1050 |
| FXS80 • 100 • 125L | 1400 | 1450 |

- For standard installation (air inlet on the bottom side), choose one of the below two means of installation.

**Note:** For other than standard installation, contact your Daikin dealer for details.

## Drain Pump Kit

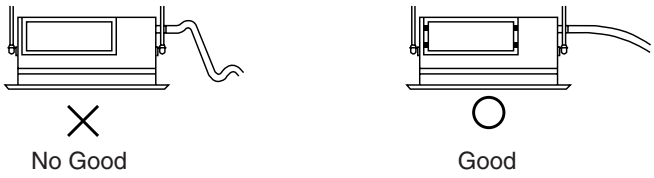
| Indoor unit | Drain pump kit |
|---|---|
| FXS~L | Standard (Equipped with indoor unit) |

**Drain Piping**

Rig the drain pipe as shown below and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.

**(1) Rig drain piping**

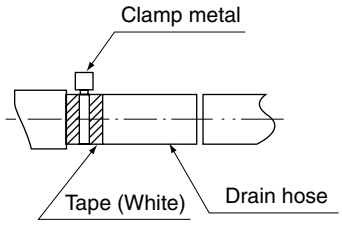
- The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe (vinyl tube; pipe size: 25 mm; outer dimension: 32 mm).
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air pockets from forming.
- If the drain hose cannot be sufficiently set on a slope, execute the drain raising piping.
- To keep the drain hose from sagging, space hanging wires every 1 to 1.5 m.

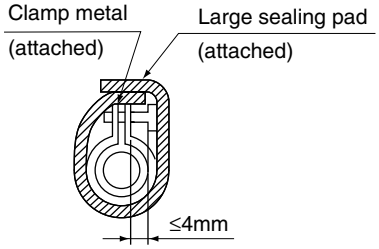



**⚠ CAUTION**

Setting the unit at an angle opposite to the drain piping might cause leaks.

- Use the attached drain hose and clamp metal. Tighten the clamp firmly. Insert the drain hose into the drain socket, up to the white tape. Tighten the clamp until the screw head is less than 4 mm from the hose.
- Wrap the attached sealing pad over the clamp and drain hose to insulate.
- Insulate the drain hose inside the building.

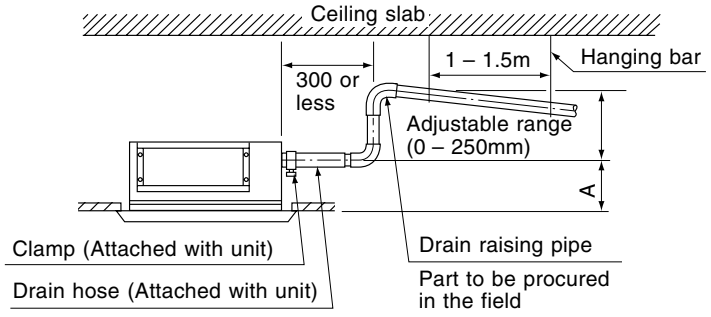



## 〈 PRECAUTIONS FOR DRAIN RAISING PIPING 〉

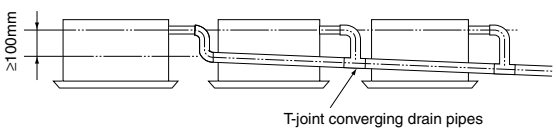
### 〈 HOW TO INSTALL PIPING 〉

(1) Connect the drain hose to the drain raising pipes, and insulate them.
(2) Connect the drain hose to the drain outlet on the indoor unit, and tighten it with the clamp.
(3) Insulate both metal clamp and drain hose with the attached sealing pad.




| | A |
|---|---|
| When canvas duct is installed | 350 – 530 |
| When air inlet panel is directly installed | 275 |

- If converging multiple drain pipes, install according to the procedure shown below.

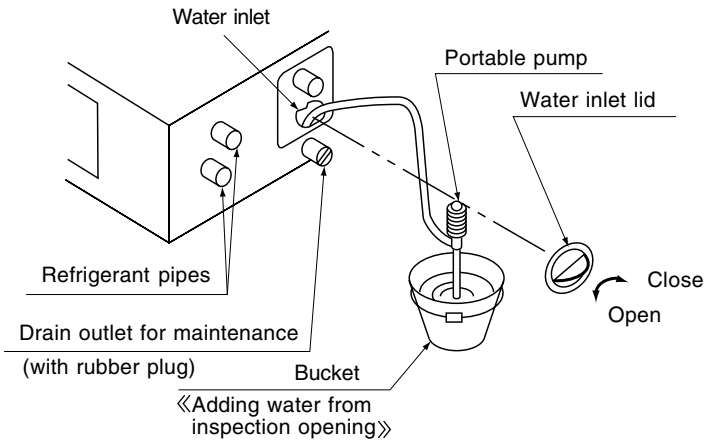



3P086156-3A-9

Select converging drain pipes whose gauge is suitable for the operating capacity of the unit.

**(2) After piping work is finished, check drainage flows smoothly.**

- Open the water inlet lid, add approximately 1000 cc of water gradually and check drainage flow.



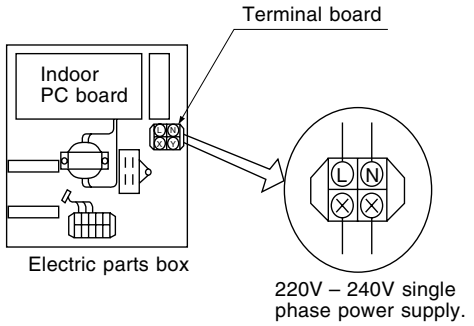

Note: Use this outlet to drain water from the drain pan.

7

**[ WHEN ELECTRIC WIRING WORK IS FINISHED ]**

- Check drainage flow during COOL running, explained under "TEST OPERATION."

**[ WHEN ELECTRIC WIRING WORK IS NOT FINISHED ]**




Remove the electric parts box lid, connect a power supply and remote controller to the terminals.
(Refer to the "Installation Manuals")

Next, press the inspection/test operation button " TEST " on the remote controller. The unit will engage the test operation mode.

Press the operation mode selector button " " until selecting FAN OPERATION " ". Then, press the ON/OFF button " ". The indoor unit fan and drain pump will start up. Check that the water has drained from the unit. Press " TEST " to go back to the first mode.

You can check whether drainage is satisfactory or not by removing the access opening lid and checking the water level of the drain pan through the access opening.

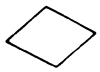
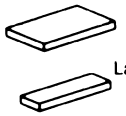
**Be careful when doing so because the fan is turning at the same time.**

3P086156-3A-10

# 12. Accessories

## Standard Accessories

### FXS20L~125L

| Name | Clamp metal | Paper pattern for installation | Drain hose | Insulation for fitting | Sealing pad | Screws for duct flanges |
|---|---|---|---|---|---|---|
| Quantity | 1 | 1 | 1 | 1 | Large and small 1 each | 1 set |
| Shape | |  | | for gas pipe for liquid pipe |  Large Small | |

| Name | Washer for hanging bracket | Clamp | Screws for fixing the paper pattern for installation | (Other) |
|---|---|---|---|---|
| Quantity | 8 | 4 | 6 | • Operation manual<br>• Installation manual<br>• Sealing material (35×150) |
| Shape | | | | |

| | |
|---|---|
| FXS20•25•32L | 6 |
| FXS40•50L | 8 |
| FXS63L | 12 |
| FXS80•100•125L | 16 |

• Screws for fixing panels are attached to air inlet panel

3P086156-3A-3

## Optional Accessories (For Unit)

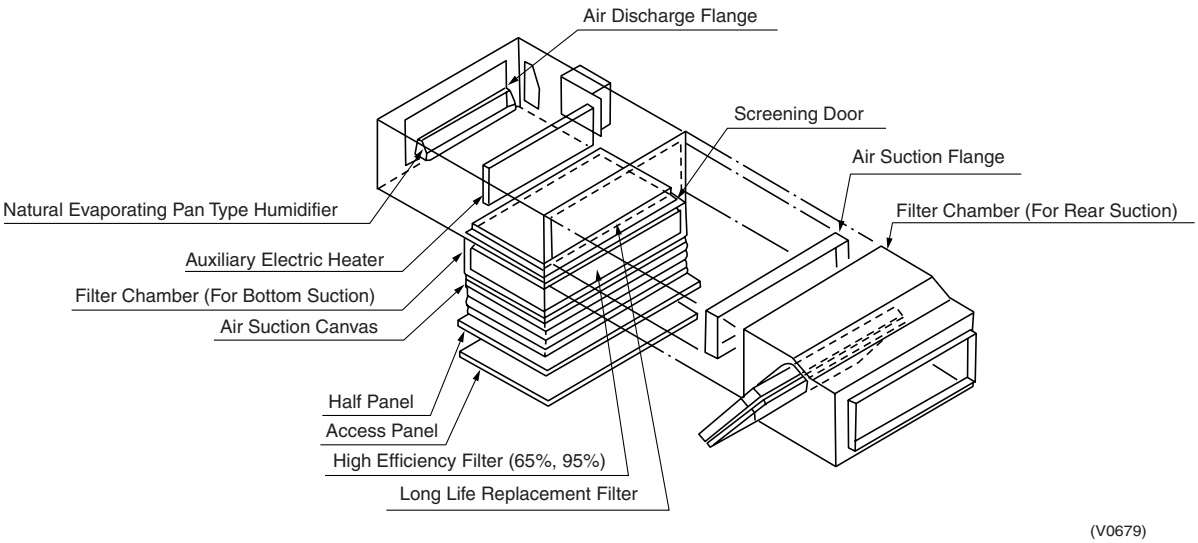
| No. | Item | Type | | FXS20L FXS25L FXS32L | FXS40L FXS50L | FXS63L | FXS80L FXS100L | FXS125L |
|---|---|---|---|---|---|---|---|---|
| 1 | Panel related | Decoration Panel | | BYBS32DJW1 | BYBS45DJW1 | BYBS71DJW1 | BYBS125DJW1 | |
| | | Access panel | | KTBJ25K36W | KTBJ25K56W | KTBJ25K80W | KTBJ25K160W | |
| 2 | ★1 Auxiliary electric heater | Model | 240V/ 220V | KEA25K32VE | KEA25K50VE | KEA25K63VE | KEA25K100VE | KEA25K125VE |
| | | Capacity | kW | 0.75 | 1.2 | 1.4 | 2.1 | 2.8 |
| 3 | Filter related | ★2 High efficiency filter 65% | | KAFJ252L36 | KAFJ252L56 | KAFJ252L80 | KAFJ252L160 | |
| | | ★2 High efficiency filter 90% | | KAFJ253L36 | KAFJ253L56 | KAFJ253L80 | KAFJ253L160 | |
| | | Long life replacement filter | | KAFJ251K36 | KAFJ251K56 | KAFJ251K80 | KAFJ251K160 | |
| | | Filter chamber | For bottom suction | KAJ25L36D | KAJ25L56D | KAJ25L80D | KAJ25L160D | |
| | | | For rear suction | KAJ25L36B | KAJ25L56B | KAJ25L80B | KAJ25L160B | |
| 4 | Air inlet and air discharge outlet related | Air suction canvas | | KSA-25K36 | KSA-25K56 | KSA-25K80 | KSA-25K160 | |
| | | Screening door | | KBBJ25K36 | KBBJ25K56 | KBBJ25K80 | KBBJ25K160 | |
| | | Air suction flange | | KDJ2507K36 | KDJ2507K56 | KDJ2507K80 | KDJ2507K160 | |
| | | Air discharge adaptor | | KDAJ25K36 | KDAJ25K56 | KDAJ25K71 | KDAJ25K140 | |
| 5 | Natural evaporating Pan type humidifier ★1 | | | KNM25K32V1 | KNM25K50V1 | KNM25K63V1 | KNM25K125V1 | |

**Note:**

★1 One adaptor for wiring (KRP1B61) per indoor unit is required if installing an electric heater or a natural evaporating pan type humidifier. An electric heater cannot be used for VRV system cooling only.

★2 If installing a high filter in the ceiling mounted built-in type, an assembly chamber for either bottom or rear suction is required.

## Optional Accessories (For Controls) Refer to P.484.

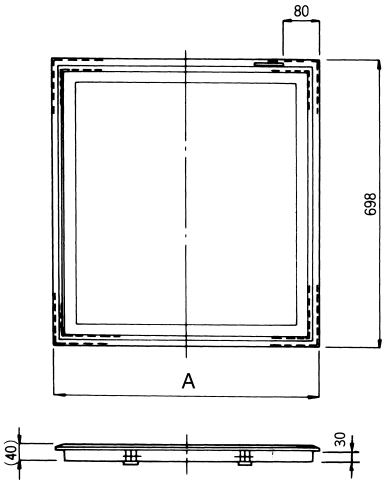


## Access Panel

### Specifications

| Item \ Model | KTBJ25K36W | KTBJ25K56W | KTBJ25K80W | KTBJ25K160W |
|---|---|---|---|---|
| Color | White | | | |
| Applicable Model | 20~32Class | 40Class, 50Class | 63Class | 80~125Class |

### Dimension

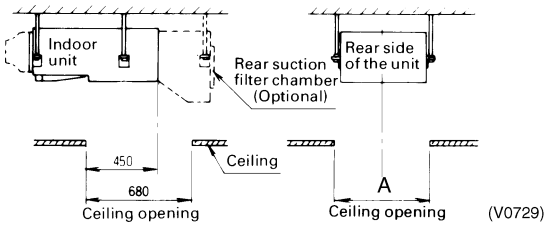



| Model | A |
|---|---|
| KTBJ25K36W | 626 |
| KTBJ25K56W | 776 |
| KTBJ25K80W | 1076 |
| KTBJ25K160W | 1476 |

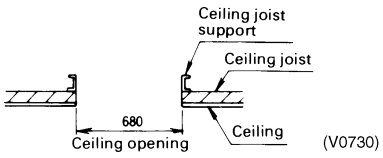
### Installation

[Before installation]

1. Make an opening on the ceiling




2. Install ceiling joist supports to fit the ceiling opening




| Model | A |
|---|---|
| KTBJ25K36 | 606 |
| KTBJ25K56 | 756 |
| KTBJ25K80 | 1056 |
| KTBJ25K160 | 1406 |

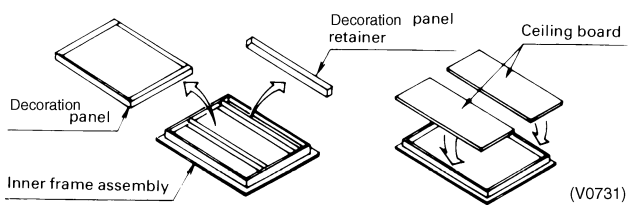
[Installation of the ceiling board]

The ceiling board can be installed into the inner frame assembly as follows.

1. Remove decoration panel retainer from the inner frame assembly.
2. Remove the decoration panel and substitute with the ceiling board.
3. Set the ceiling board by retainer removed in step 1 of above.

**Cautions**

When the ceiling board is installed, the decoration panel is not needed.

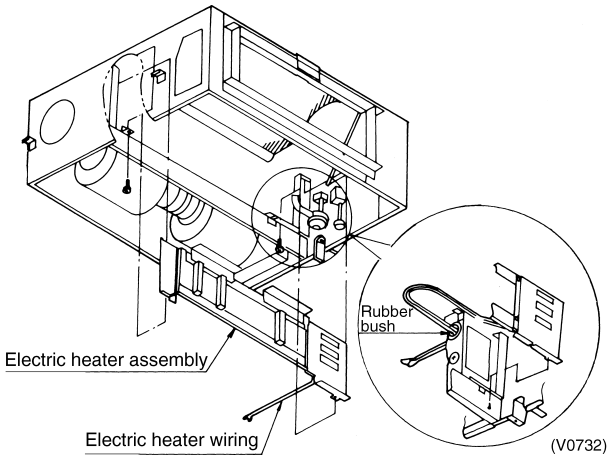


## Auxiliary Electric Heater (A wiring adaptor is needed)

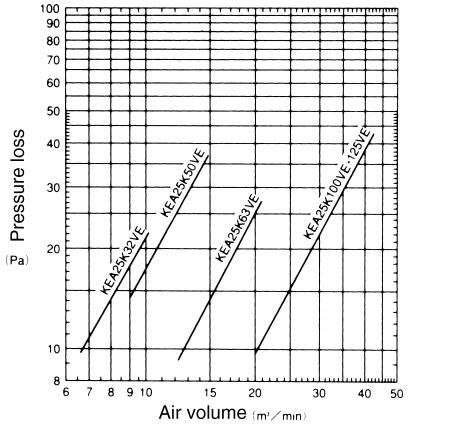
### Specifications

| Items \ Model | KEA25K32VE | KEA25K50VE | KEA25K63VE | KEA25K100VE | KEA25K125VE |
|---|---|---|---|---|---|
| Heater Capacity (kW) | 0.75 | 1.2 | 1.4 | 2.1 | 2.8 |
| Power Supply | Single Phase, 220-240V/220V 50/60Hz | | | | |
| Applicable Models | 20·25·32Class | 40·50Class | 63Class | 80·100Class | 125Class |

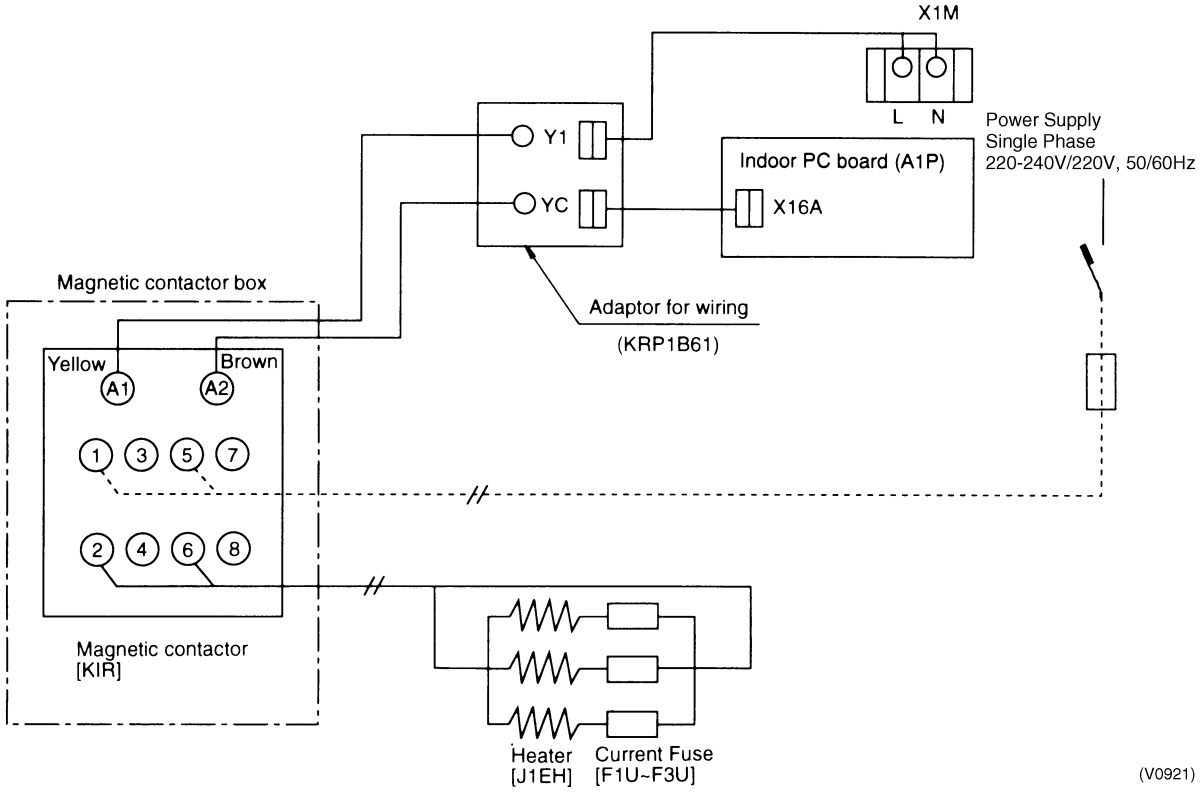
### Installation




### Characteristics of filter




### Wiring




### Precaution at use

1. When the aux. electric heater will be installed, “Wiring adaptor (KRP1B61)” is separately needed for one indoor unit by one piece of the adaptor.

## Natural Evaporating Pan Type Humidifier (Wiring adaptor is required.)

### Specifications

| Item \ Model | KNM25K32V1 | KNM25K50V1 | KNM25K63V1 | KNM25K125V1 |
|---|---|---|---|---|
| Humidifying Capacity (L/h) | 0.4 | 0.6 | 1.0 | 1.8 |
| Power Supply (W) | Single Phase, 220-240V 50Hz | | | |
| Power Consumption | 12/9.6 | | | |
| Water Inlet Port | 1/2B | | | |
| Water Outlet Port | VP25 (External dia. $\phi$32) (drain pipe at indoor unit) | | | |
| Applicable Models | 20·25·32Class | 40·50Class | 63Class | 80·100·125Class |

**Precaution at use**

1. "Wiring adaptor (KRP1B61)" is separately needed for one indoor unit by one piece of the adaptor.
2. This humidifier will be built in a indoor unit, while the solenoid valve box will be mounted out of the unit's body (refer to the dimensions of optional accessories).
3. The field setting should be changed by a remote controller.

**Note:**

The value in JIS heating condition's standard.

**Feed water piping**

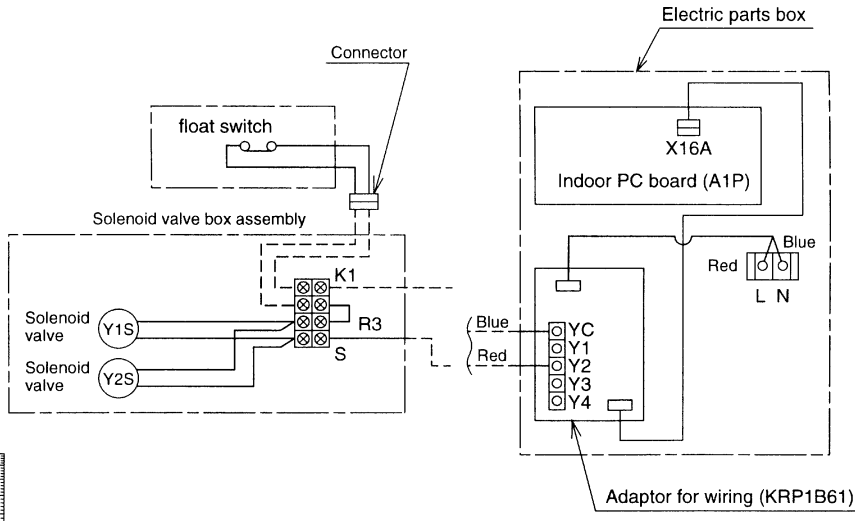
1. Provide a stop valve of feed water for the feed water circuit.
2. Supply clean water for the feed water. Contaminated water clogs a valve and the contaminants accumulate in a water tank, disturbing a normal operation of the humidifier. (Never use cooling water for a cooling tower or hot water for heating purpose). Moreover, since white powder will appear if the feed water contains much silica, it is recommended to install a water purifier or a water softener if these phenomena are found.
3. Use water in the range of water temperature 5 ~ 50°C and water pressure 0.049 ~ 0.294 MPa[0.5 ~3kg/cm²]. Provide a reducing valve between a strainer and this kit, in case of 0.294MPa or more for feed water pressure.
4. The feed water pipe can not be connected to a public water route. Accordingly, if water must be supplied through a public water by all means, provide a cistern tank (approved model only).

**Wiring diagram**

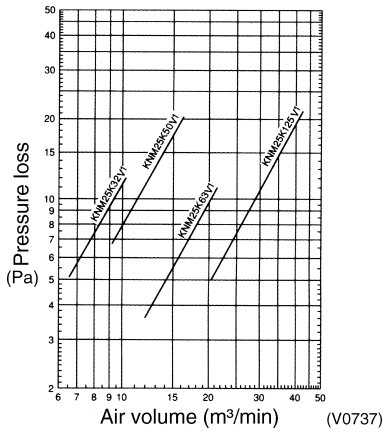
---------- Field wiring

Make wiring as shown on the right, if a humidity controller will be mounted.

Arrange the wiring shown right locally for that case. Set the turn-over switch to OFF for the choice of ON/OFF of group humidity controlling input on the "Wiring adaptor PC board" .




**Characteristics of Filter**



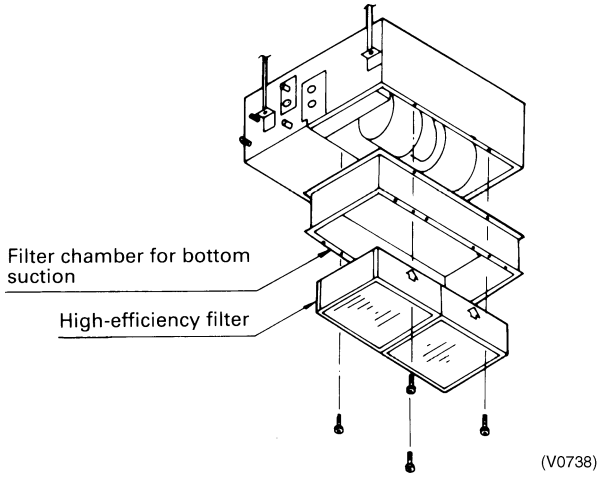
## High Efficiency Filter

### Specifications

| Items \ Model | KAFJ252L36 | KAFJ252L56 | KAFJ252L80 | KAFJ252L160 | KAFJ253L36 | KAFJ253L56 | KAFJ253L80 | KAFJ253L160 |
|---|---|---|---|---|---|---|---|---|
| Dust Collection Efficiency (%) | Colorimetric method 65% | | | | Colorimetric method 90% | | | |
| Initial Pressure Loss (Pa) | 49 or less | | | | 49 or less | | | |
| Final Pressure Loss (Pa) | 98 | | | | 98 | | | |
| Filter | Non-woven fabric of synthetic fiber | | | | Non-woven fabric of synthetic fiber | | | |
| Life Time (h) | 2,500 hours (Dust density 0.15mg/m³) | | | | 1,800 hours (Dust density 0.15mg/m³) | | | |
| High Efficiency Filter Chamber (for the Bottom Suction) | KAJ25L36D | KAJ25L56D | KAJ25L80D | KAJ25L160D | KAJ25L36D | KAJ25L56D | KAJ25L80D | KAJ25L160D |
| High Efficiency Filter Chamber (for the Rear Suction) | KAJ25L36B | KAJ25L56B | KAJ25L80B | KAJ25L160B | KAJ25L36B | KAJ25L56B | KAJ25L80B | KAJ25L160B |
| External Dimension (mm) (T×W×D) | 25×500×360 | 25×650×360 | (25×475×360)×2 | (25×700×360)×1 (25×650×360)×1 | 25×500×360 | 25×650×360 | (25×475×360)×2 | (25×700×360)×1 (25×650×360)×1 |
| Applicable Models | 20·25·32 Class | 40·50 Class | 63Class | 80·100·125 Class | 20·25·32 Class | 40·50 Class | 63Class | 80·100·125 Class |

7

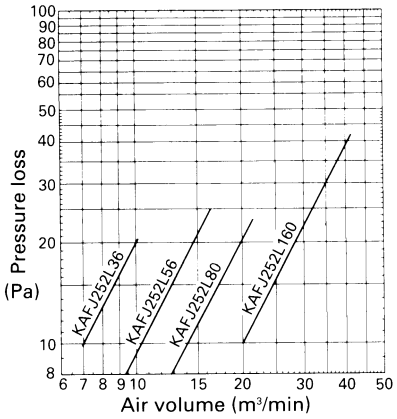
### Installation




(V0738)

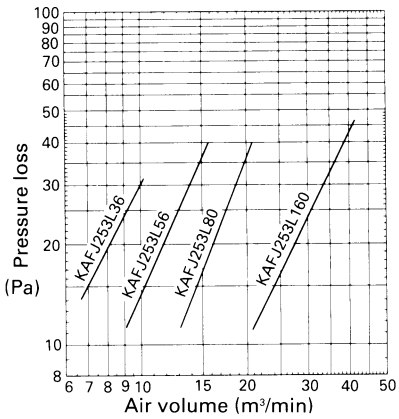
### Characteristics of Filter

■ 65% type




(V0739)

■ 90% type




(V0740)

## Long-Life Replacement Filter

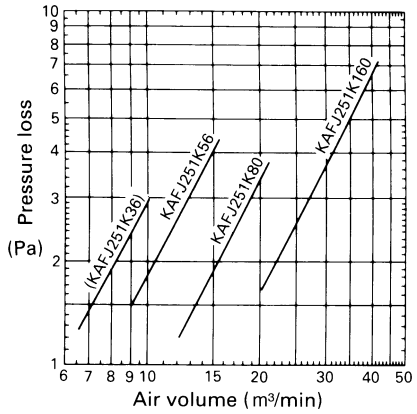
### Specifications

| Item \ Model | | KAFJ251K36 | KAFJ251K56 | KAFJ251K80 | KAFJ251K160 |
|---|---|---|---|---|---|
| Average Efficiency (%) | | 50% (Gravity method) | | | |
| Pressure Loss (Pa) | Initial | 9.8 | | | |
| | Final | 49 | | | |
| Materials | | Mildew Proof Resin Net | | | |
| Number Required per Model | | 1 | 1 | 2 | 2 |
| Life Time (h) | | 2,500 hours (dust particle concentration at 0.15 mg/m³) | | | |
| Applicable Model | | 20·25·32Class | 40·50Class | 63Class | 80·100·125Class |

**Note:**

The filter models for 20 ~ 50Class can be used also as Rear-suction types.

### Characteristics of filter



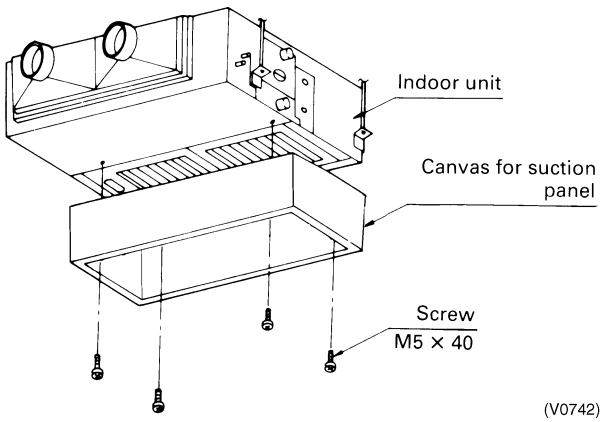

(V0741)

## Canvas Duct (Air Suction Canvas)

### Specifications

| Item \ Model | | KSA-25K36 | KSA-25K56 | KSA-25K80 | KSA-25K160 |
|---|---|---|---|---|---|
| Dimensions (mm) | H | 255 | 255 | 255 | 255 |
| | W | 550 | 700 | 1000 | 1400 |
| | D | 405 | 405 | 405 | 405 |
| Canvas Duct | | TOYOBO·SL1000·SILVER·Flame resistant | | | |
| Applicable Model | | BYBS32DJW1 | BYBS45DJW1 | BYBS71DJW1 | BYBS125DJW1 |

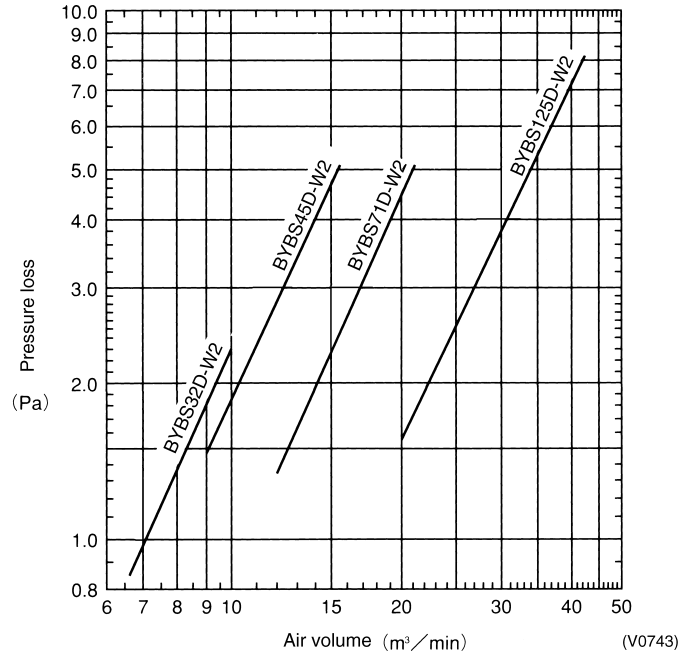
### Installation




(V0742)

## Suction Panel

### Characteristics of Filter




## Air Discharge Adaptor

### Specifications

| Item \ Model | KDAJ25K36 | KDAJ25K56 | KDAJ25K71 | KDAJ25K140 |
|---|---|---|---|---|
| Connection Dia. (ϕmm) | ϕ200×1 port | ϕ200×2 port | ϕ200×2 port | ϕ200×4 port |
| Applicable Models | 20·25·32Class | 40·50Class | 63Class | 80·100·125Class |

7

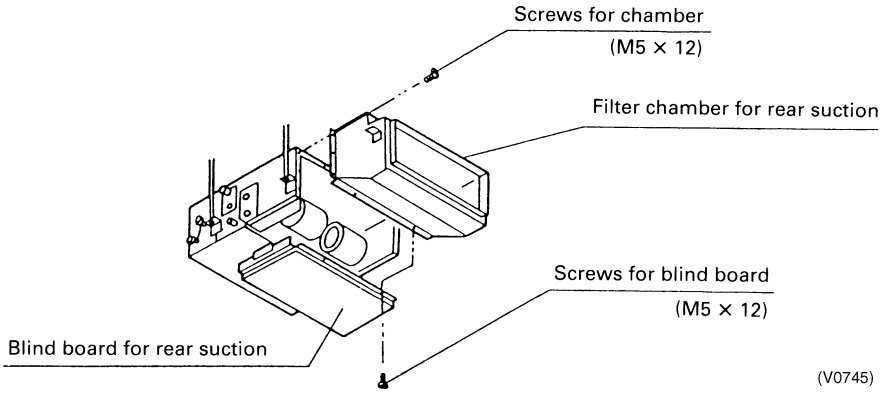
## Filter Chamber (for Rear-suction Type)

This kit will be used for the rear-suction type when the high efficiency filter or the long life filter will be built in.

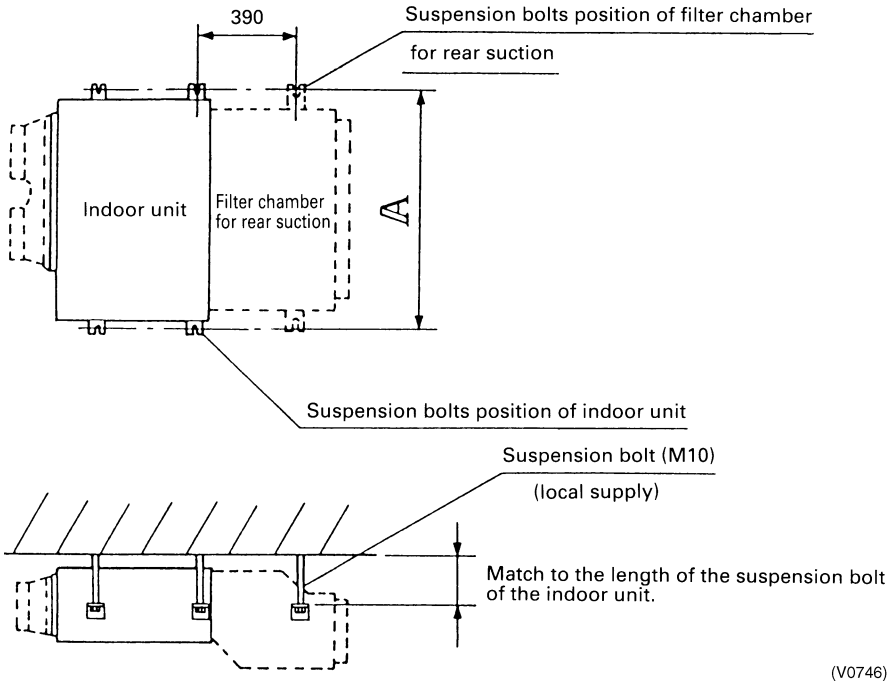
**Applicable Model**

| Model | Applicable Model |
|---|---|
| KAJ25L36B | 20·25·32Class |
| KAJ25L56B | 40·50Class |
| KAJ25L80B | 63Class |
| KAJ25L160B | 80·100·125Class |

**Installation**




Be sure to remove the long life filter and attach the rear-suction type's sealing plate there when the filter chamber (for the rear-suction type) must be installed.




| Model | A |
|---|---|
| KAJ25L36B | 600 |
| KAJ25L56B | 750 |
| KAJ25L80B | 1050 |
| KAJ25L160B | 1450 |

**Note:**

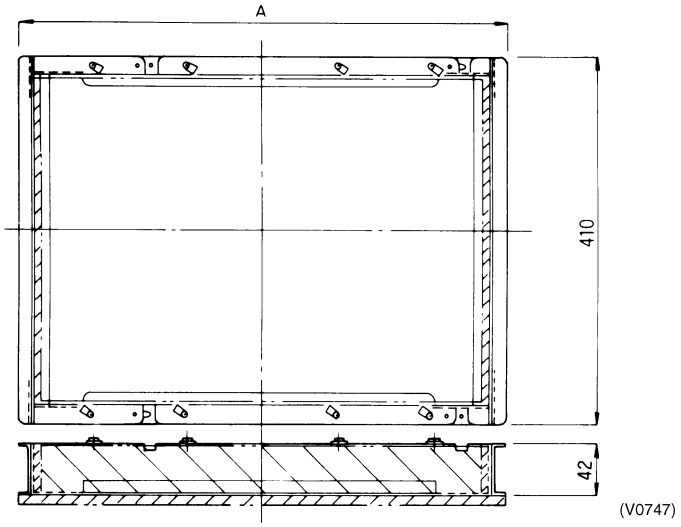
Refer to the appearance figure of optional accessory describing later for further details.

## Filter Chamber for Bottom Suction

### Applicable Model

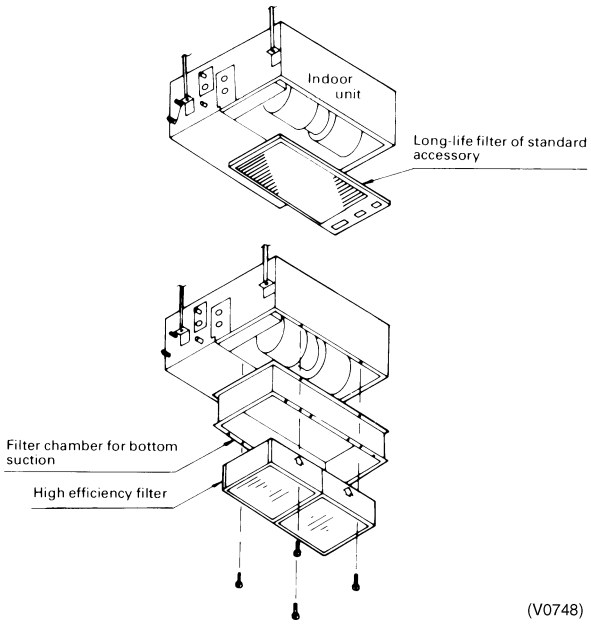
| Model | Applicable Model |
|---|---|
| KAJ25L36D | 20·25·32Class |
| KAJ25L56D | 40·50Class |
| KAJ25L80D | 63Class |
| KAJ25L160D | 80·100·125Class |

### Dimension




| Model | A |
|---|---|
| KAJ25L36D | 550 |
| KAJ25L56D | 700 |
| KAJ25L80D | 1000 |
| KAJ25L160D | 1400 |

### Installation




**Note:**
Refer to the appearance figure of optional accessory describing later for further details.

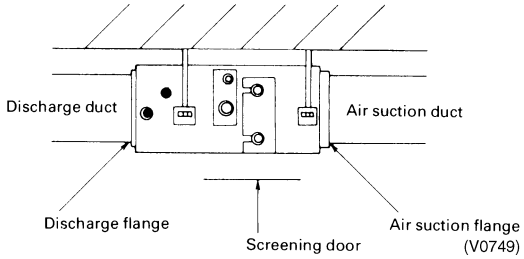
## Air Suction Flange

When this kit will be used, the rear suction type's sealing plate will be required separately.

### Specifications

| Item \ Model | | Air Suction Flange | | | |
|---|---|---|---|---|---|
| | | KDJ2507K36 | KDJ2507K56 | KDJ2507K80 | KDJ2507K160 |
| Dimensions (mm) | W | 527 | 677 | 977 | 1377 |
| | H | 278 | | | |
| | T | 25 | | | |
| Size of Connecting Duct (mm) | W | 477 | 627 | 927 | 1327 |
| | L | 228 | | | |
| Materials | | Galvanized steel plate | | | |
| Applicable Model | | 20·25·32Class | 40·50Class | 63Class | 80·100·125Class |

### Example of Installation



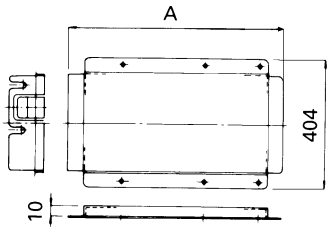

## Blind Board (Screening Door) used for the rear-suction type

**KBBJ25K36·56·80·160**

### Specifications

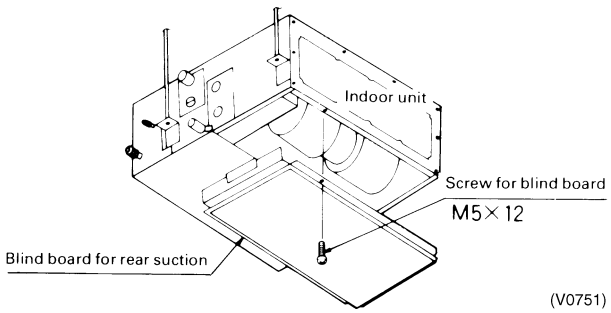
| Item \ Model | | KBBJ25K36 | KBBJ25K56 | KBBJ25K80 | KBBJ25K160 |
|---|---|---|---|---|---|
| Dimensions (mm) | W | 535 | 685 | 985 | 1385 |
| | D | 404 | | | |
| | T | 10 | | | |
| Materials | | Galvanized Steel Plate | | | |
| Applicable Model | | 20·25·32Class | 40·50Class | 63Class | 80·100·125Class |

### Dimension




| Applicable Model | A |
|---|---|
| KBBJ25K36 | 535 |
| KBBJ25K56 | 685 |
| KBBJ25K80 | 985 |
| KBBJ25K160 | 1385 |

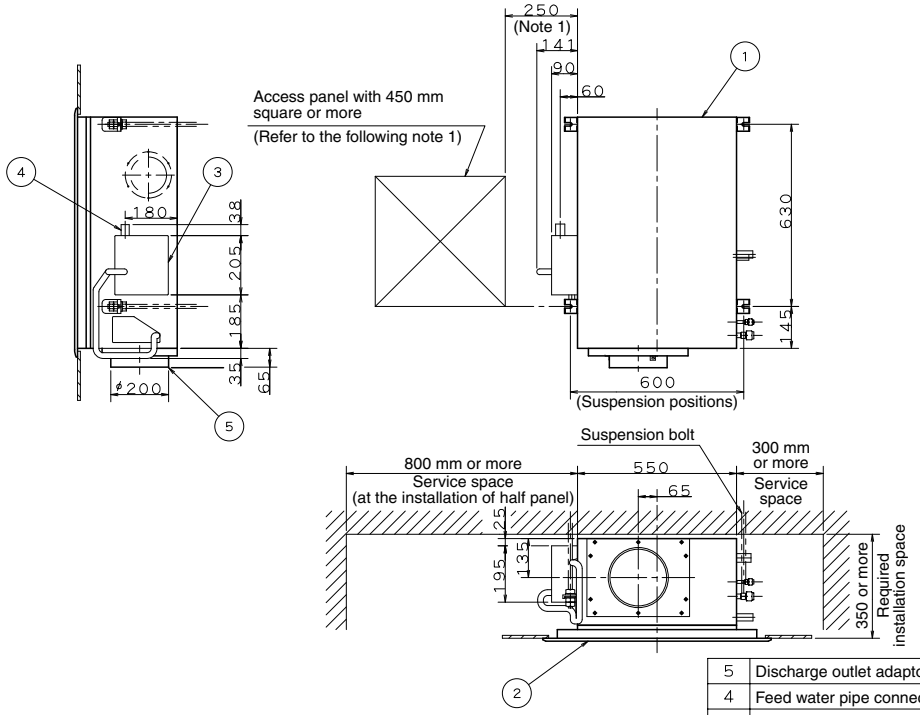
### Installation



## Dimensions with the Optional Accessories

### Natural evaporating pan type humidifier (Discharge outlet adaptor)

■ **FXS20L~32L**

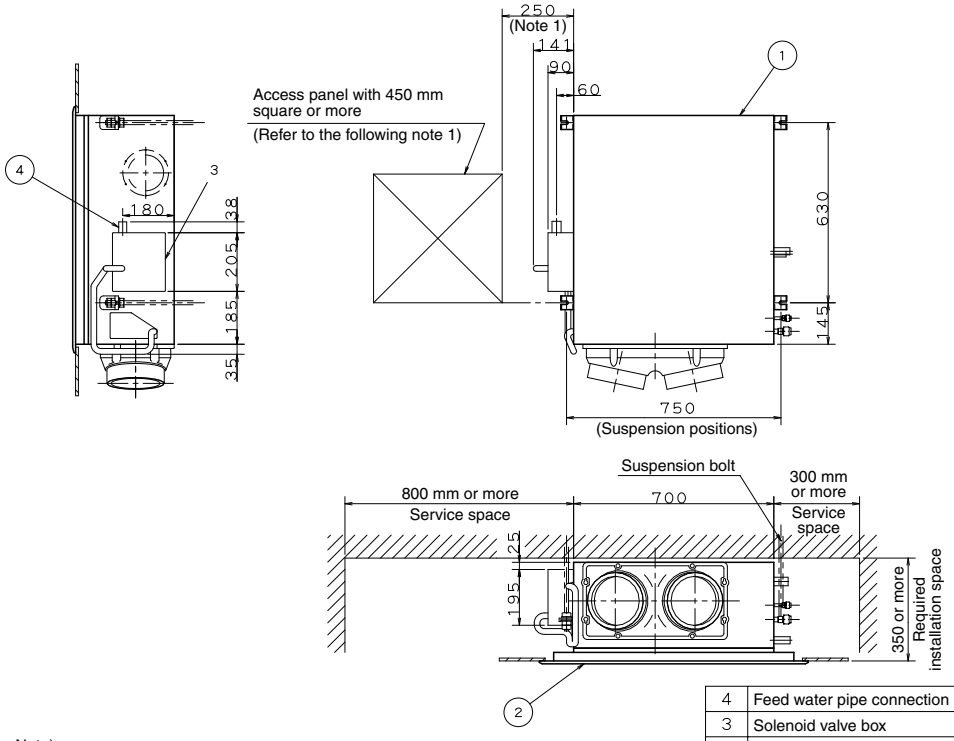



| Number | Name | Description |
|---|---|---|
| 5 | Discharge outlet adaptor | |
| 4 | Feed water pipe connection | For natural evaporating pan type humidifier PT 1/2 |
| 3 | Solenoid valve box | For natural evaporating pan type humidifier |
| 2 | Suction full panel | |
| 1 | Built-in unit body | |

Note)
1. An access panel is needed when a half panel will be installed.
2. When optional accessory other than these kits will be built in, refer to external drawing with optional accessories.
3. Parts names ②~⑤ show optional accessories.

JC : DU220-245B

■ **FXS40L·50L**



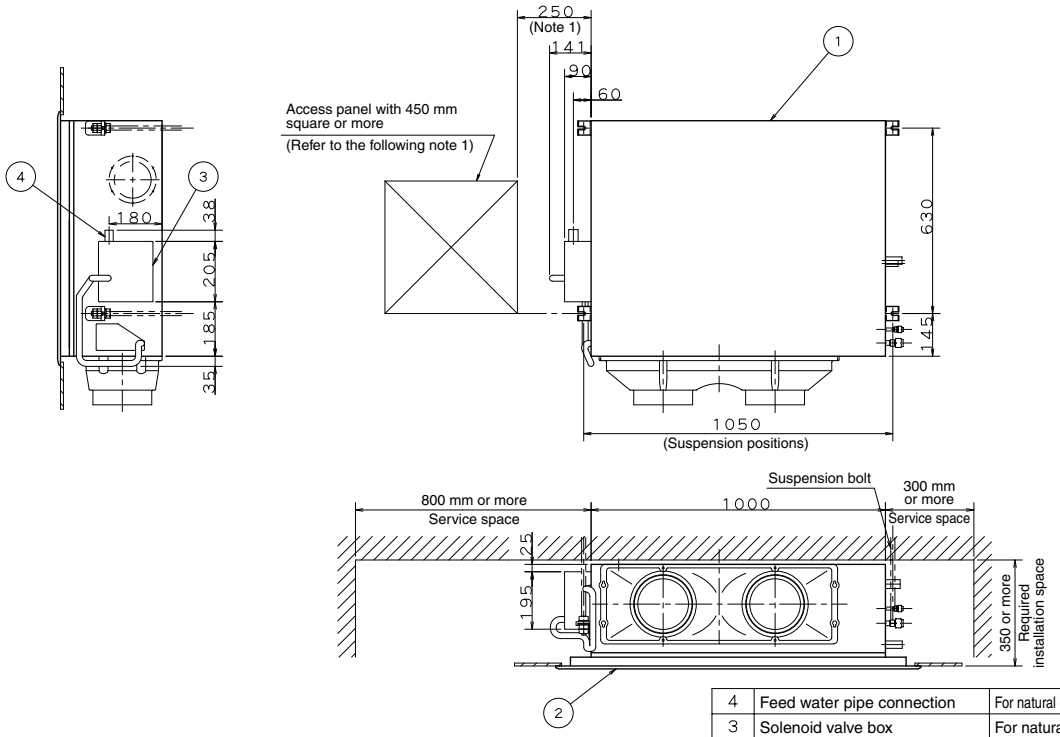

| Number | Name | Description |
|---|---|---|
| 4 | Feed water pipe connection | For natural evaporating pan type humidifier PT 1/2 |
| 3 | Solenoid valve box | For natural evaporating pan type humidifier |
| 2 | Suction full panel | |
| 1 | Built-in Hi type body | |

Note)
1. An access panel is needed when a half panel will be installed.
2. When optional accessory other than these kits will be built in, refer to external drawing with optional accessories.
3. Parts names ②~④ show optional accessories.

JC : DU425-2111D

## External drawing with optional accessories (Natural evaporating type humidifier) (Air Discharge Adaptor)

### ■ FXS63L

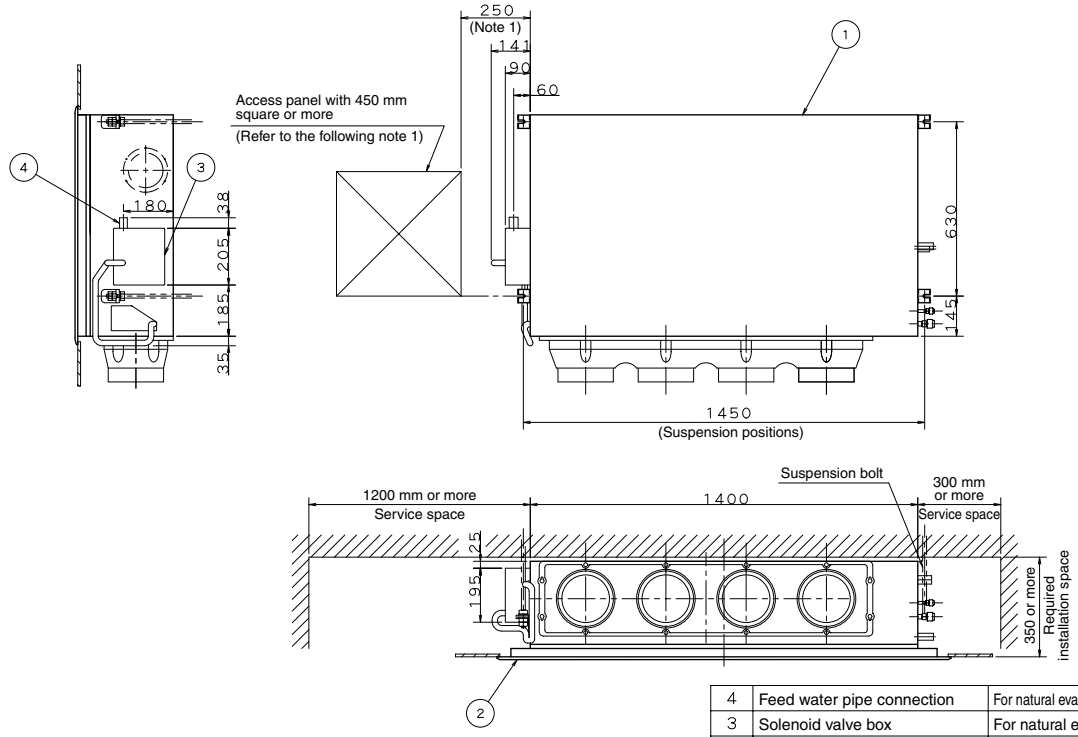



| Number | Name | Description |
|---|---|---|
| 1 | Built-in Hi type body | |
| 2 | Suction full panel | |
| 3 | Solenoid valve box | For natural evaporating pan type humidifier |
| 4 | Feed water pipe connection | For natural evaporating pan type humidifier PT 1/2 |

Note)
1. An access panel is needed when a half panel will be installed.
2. When optional accessory other than these kits will be built in, refer to external drawing with optional accessories.
3. Parts names ②~④ show optional accessories.

JC : DU427-2192D

### ■ FXS80L~125L



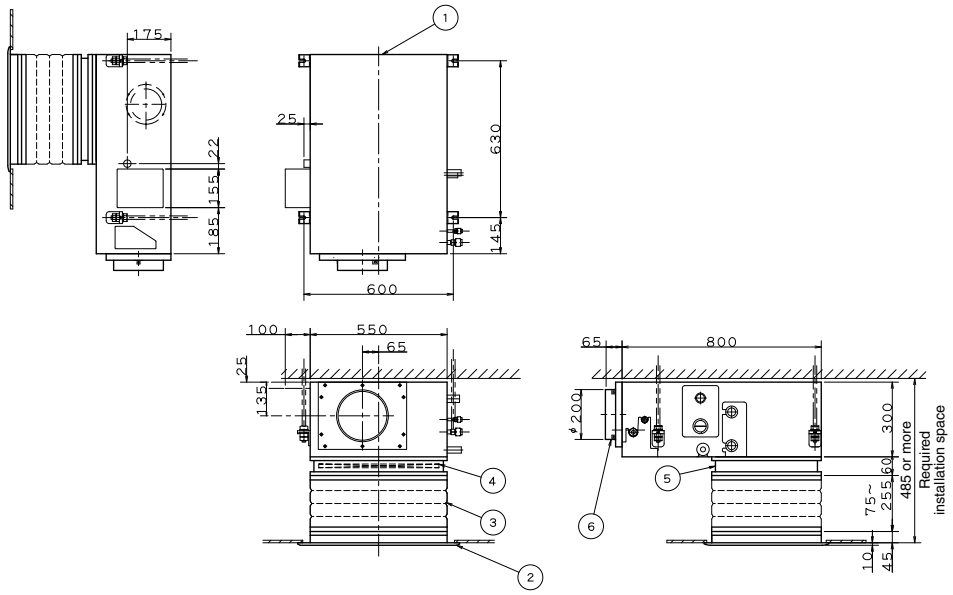

| Number | Name | Description |
|---|---|---|
| 1 | Built-in Hi type body | |
| 2 | Suction full panel | |
| 3 | Solenoid valve box | For natural evaporating pan type humidifier |
| 4 | Feed water pipe connection | For natural evaporating pan type humidifier PT 1/2 |

Note)
1. An access panel is needed when a half panel will be installed.
2. When optional accessory other than these kits will be built in, refer to external drawing with optional accessories.
3. Parts names ②~④ show optional accessories.

JC : DU428-2158D

## High Efficiency Filter (Air Discharge Adaptor)

### ■ FXS20L~32L

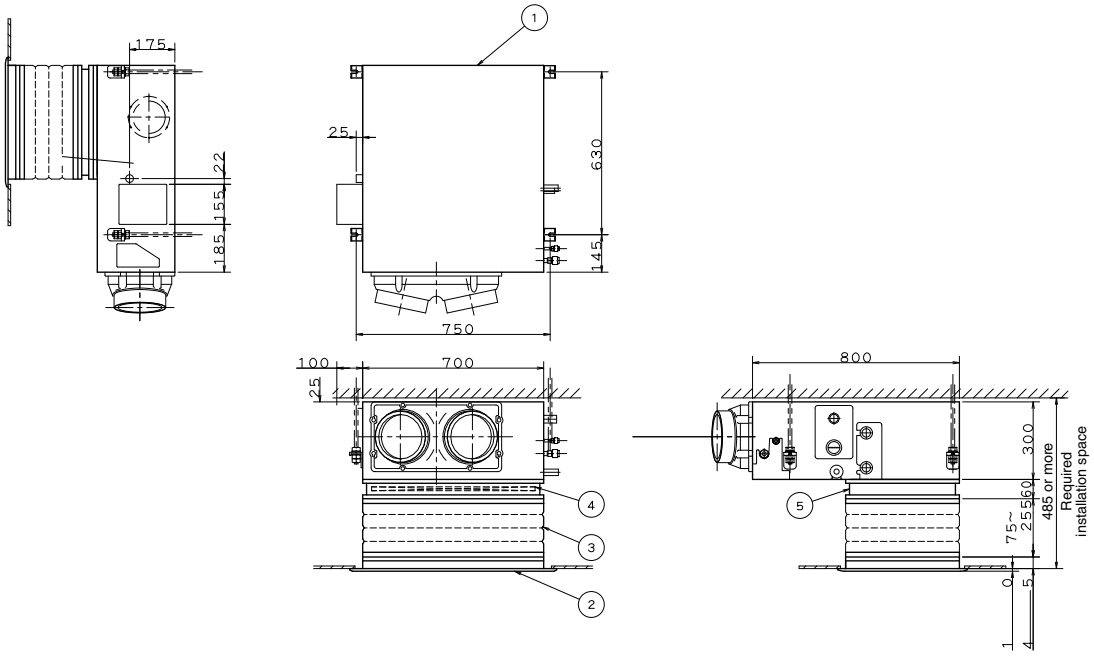



| Number | Name | Description |
|---|---|---|
| 6 | Air discharge adaptor | |
| 5 | Bottom suction filter chamber | |
| 4 | High efficiency filter | |
| 3 | Air suction canvas | |
| 2 | Suction half panel | |
| 1 | Built-in unit body | |

Note)
1. When optional accessory other than these kits will be built in, refer to the external drawing with optional accessories.
2. Parts names ②~⑧ show optional accessories.

JC : DU820-238B

### ■ FXS40L·50L



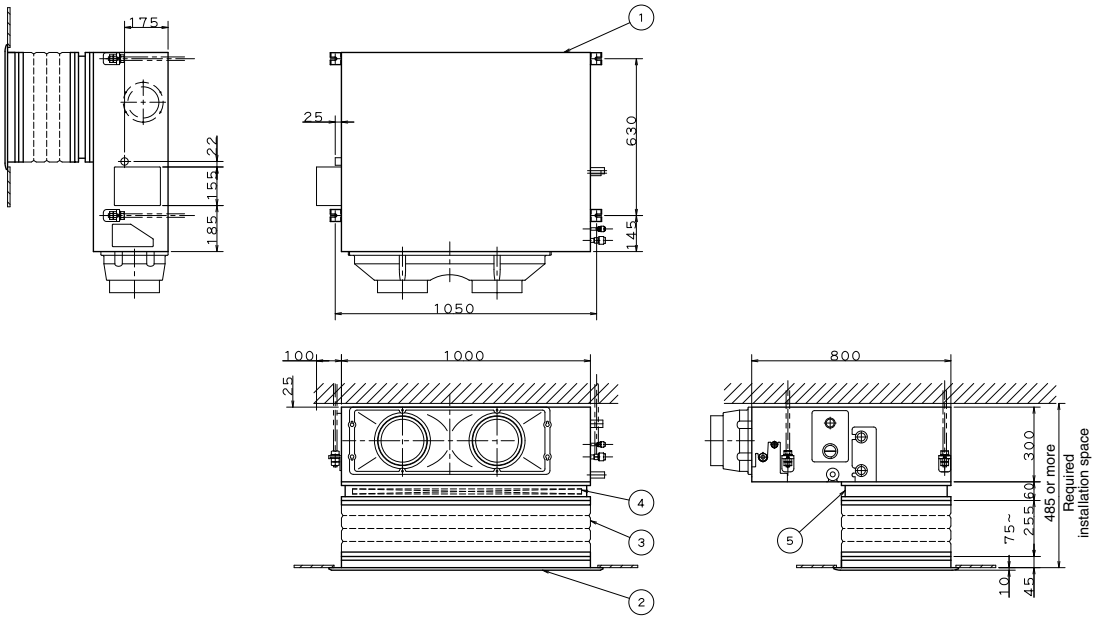

| Number | Name | Description |
|---|---|---|
| 5 | Bottom suction filter chamber | |
| 4 | High efficiency filter | |
| 3 | Air suction canvas | |
| 2 | Suction half panel | |
| 1 | Built-in Hi type body | |

Note)
1. When optional accessory other than these kits will be built in, refer to the external drawing with optional accessories.
2. Parts names ②~⑦ show optional accessories.

JC : DU823-226D

## High Efficiency Filter

### ■ FXS63L

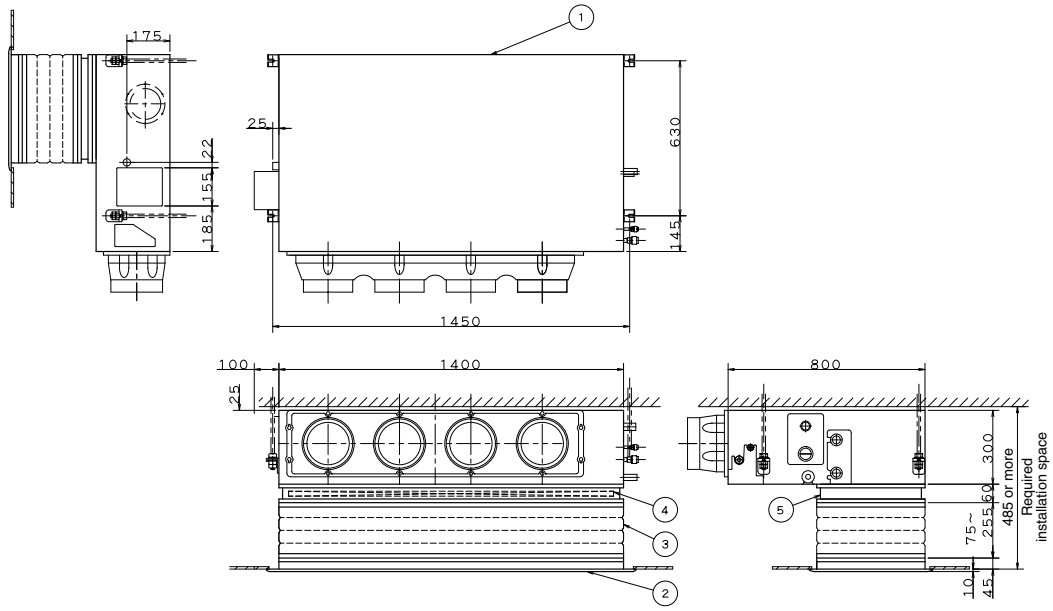



| Number | Name | Description |
|---|---|---|
| 5 | Bottom suction filter chamber | |
| 4 | High efficiency filter | |
| 3 | Air suction canvas | |
| 2 | Suction half panel | |
| 1 | Built-in Hi type body | |

Note)
1. When optional accessory other than these kits will be built in, refer to the external drawing with optional accessories.
2. Parts names ②~⑦ show optional accessories.

JC : DU826-207D

### ■ FXS80L~125L



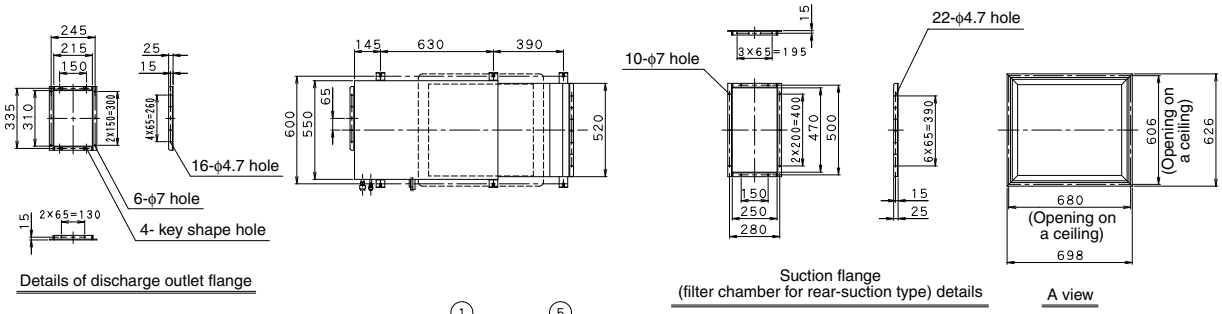

| Number | Name | Description |
|---|---|---|
| 5 | Bottom suction filter chamber | |
| 4 | High efficiency filter | |
| 3 | Air suction canvas | |
| 2 | Suction half panel | |
| 1 | Built-in Hi type body | |

Note)
1. When optional accessory other than these kits will be built in, refer to the external drawing with optional accessories.
2. Parts names ②~⑦ show optional accessories.

JC : DU828-215D

## Duct Style Installation

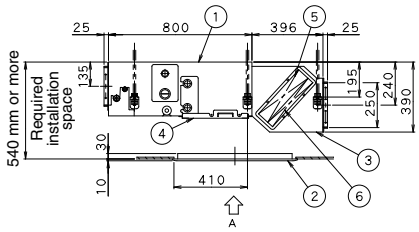
### ■ FXS20L~32L

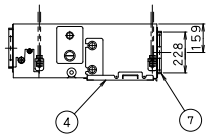



Details of discharge outlet flange

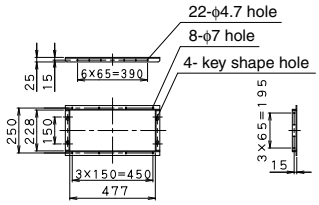
Suction flange (filter chamber for rear-suction type) details

A view




At installation of suction flange



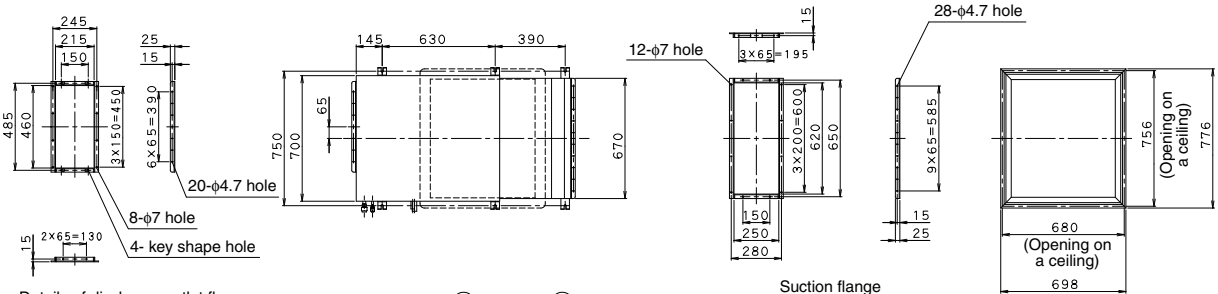

Suction flange details

Note)
1. When optional accessory other than these kits will be built in, refer to the external drawing with optional accessories.
2. Parts names ②~⑦ show optional accessories.

| Number | Name | Description |
|---|---|---|
| 7 | Suction inlet flange | |
| 6 | Long life filter | |
| 5 | High efficiency filter | |
| 4 | Rear-suction sealing plate | |
| 3 | Rear-suction filter chamber | (with rear-suction sealing plate) |
| 2 | Access panel | |
| 1 | Built-in unit body | |

JC : DU220-248B

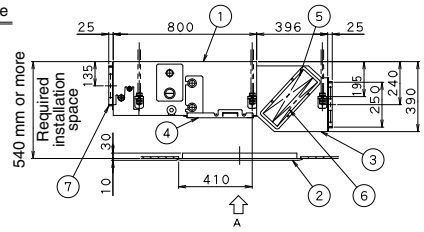
### ■ FXS40L·50L

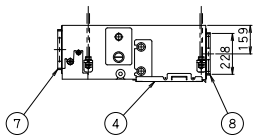



Details of discharge outlet flange

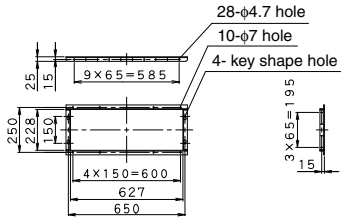
Suction flange (filter chamber for rear-suction type) details

A view




At installation of suction flange




Suction flange details

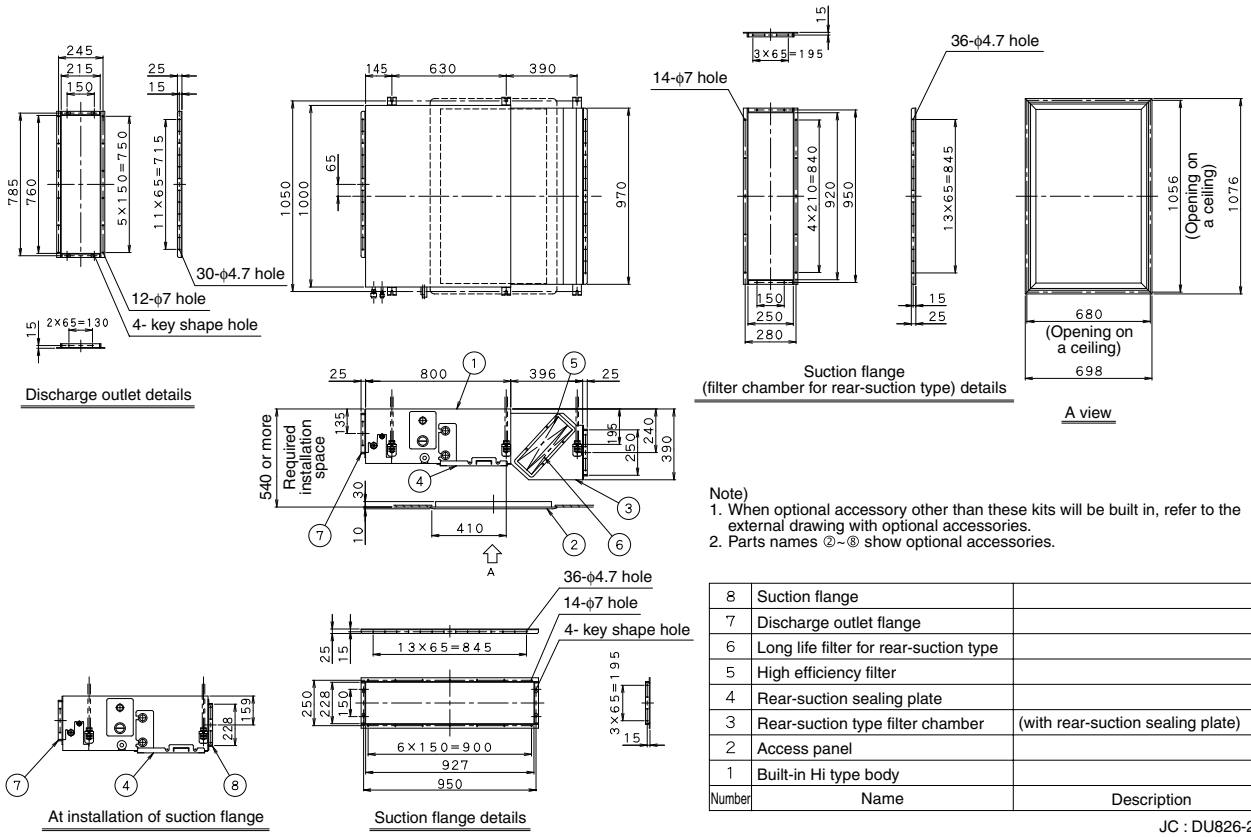
Note)
1. When optional accessory other than these kits will be built in, refer to the external drawing with optional accessories.
2. Parts names ②~⑧ show optional accessories.

| Number | Name | Description |
|---|---|---|
| 8 | Suction inlet flange | |
| 7 | Suction flange | |
| 6 | Long life filter | |
| 5 | High efficiency filter | |
| 4 | Rear-suction sealing plate | |
| 3 | Rear-suction filter chamber | (with rear-suction sealing plate) |
| 2 | Access panel | |
| 1 | Built-in Hi type body | |

JC : DU425-2115D

## Duct Style Installation

### ■ FXS63L

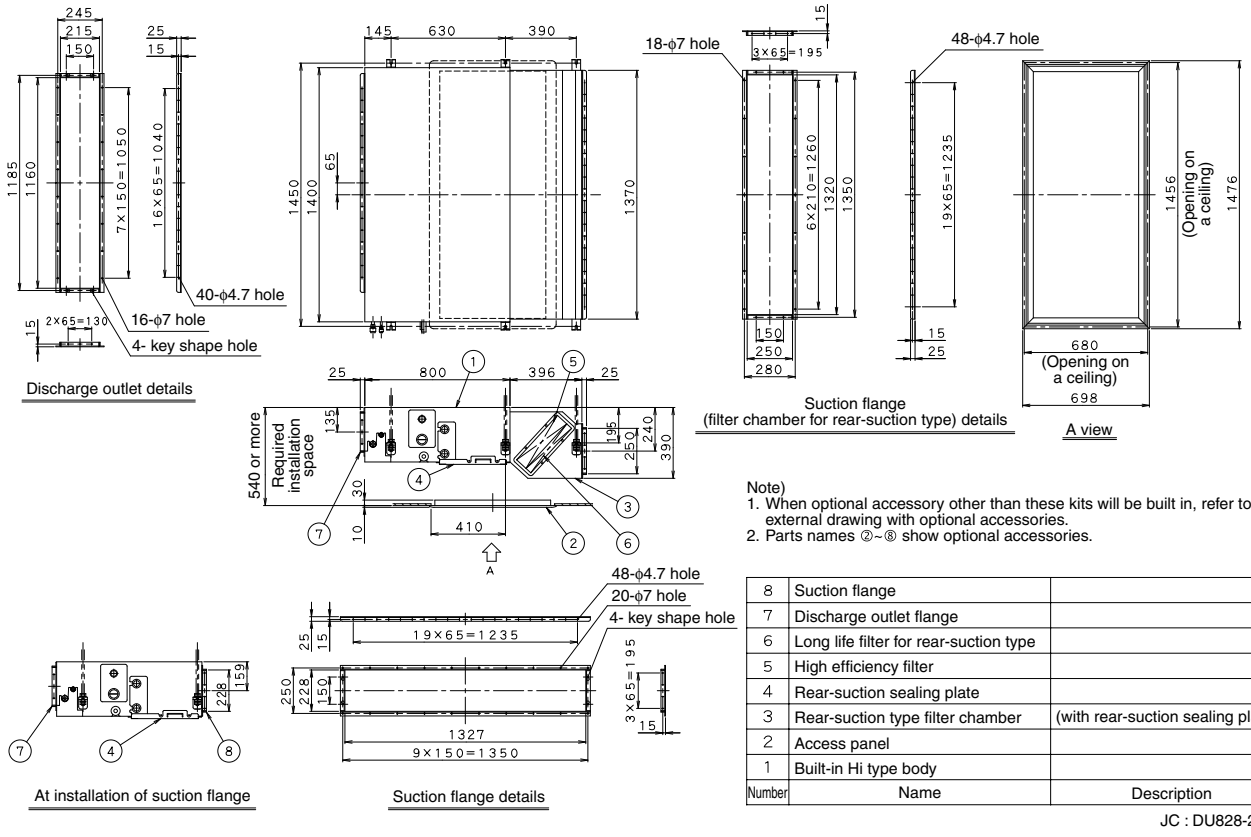



Note)
1. When optional accessory other than these kits will be built in, refer to the external drawing with optional accessories.
2. Parts names ②~⑧ show optional accessories.

| Number | Name | Description |
|---|---|---|
| 8 | Suction flange | |
| 7 | Discharge outlet flange | |
| 6 | Long life filter for rear-suction type | |
| 5 | High efficiency filter | |
| 4 | Rear-suction sealing plate | |
| 3 | Rear-suction type filter chamber | (with rear-suction sealing plate) |
| 2 | Access panel | |
| 1 | Built-in Hi type body | |

JC : DU826-208D

### ■ FXS80L~125L




Note)
1. When optional accessory other than these kits will be built in, refer to the external drawing with optional accessories.
2. Parts names ②~⑧ show optional accessories.

| Number | Name | Description |
|---|---|---|
| 8 | Suction flange | |
| 7 | Discharge outlet flange | |
| 6 | Long life filter for rear-suction type | |
| 5 | High efficiency filter | |
| 4 | Rear-suction sealing plate | |
| 3 | Rear-suction type filter chamber | (with rear-suction sealing plate) |
| 2 | Access panel | |
| 1 | Built-in Hi type body | |

JC : DU828-216D

# FXYB-K
# Ceiling Mounted Built-In Type
# <Rear Suction>

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8

# 1. Features

## Dedicated rear-suction installation design provides quiet operation

- This ceiling-mounted, built-in type was developed for exclusive use in rear-suction applications, with improved ease of installation for rear-suction purposes. (This type does not support bottom suction).

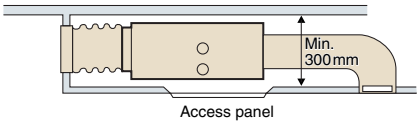
Rear view

- The new ceiling mounted built-in type with rear suction offers quieter operation than FXYS type.

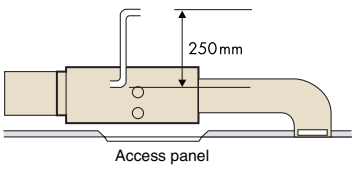
**Lower operating sound** (dB(A))

| Class | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
|---|---|---|---|---|---|---|---|---|---|
| Operating Sound (H/L) | 27/23 | 27/23 | 27/23 | 28/24 | 30/25 | 32/25 | 32/27 | 32/27 | 34/27 |

- The unit can be installed, if there is a space of 300mm above ceiling. (when access panel is used.)

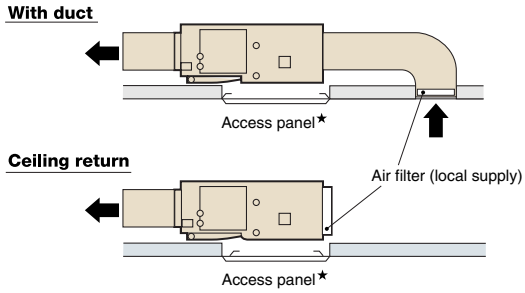



- Drain-up pump is equipped as Standard accessory with 250mm lift.




- High external static pressure allows to use even flexible ducts of various length.

**Installation examples (*Optional parts)**




•Air filters are not included as standard equipment.

★This product is a dedicated 50Hz model. A special order is required for 60Hz models.

(V1523)

# 2. Specifications

## Ceiling Mounted Built-in (Rear Suction Type)

| Model | | | FXYB20KV1 | FXYB25KV1 | FXYB32KV1 |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 2,000 | 2,500 | 3,150 |
| | | Btu/h | 7,900 | 9,900 | 12,500 |
| | | kW | 2.3 | 2.9 | 3.7 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 2.2 | 2.8 | 3.6 |
| ★3 Heating Capacity | | kcal/h | 2,200 | 2,800 | 3,400 |
| | | Btu/h | 8,500 | 10,900 | 13,600 |
| | | kW | 2.5 | 3.2 | 4.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 300×550×800 | 300×550×800 | 300×550×800 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×14×1.75 | 3×14×1.75 | 3×14×1.75 |
| | Face Area | m² | 0.088 | 0.088 | 0.088 |
| Fan | Model | | D18H3AA1V1 | D18H3AA1V1 | D18H3AA1V1 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 50×1 | 50×1 | 50×1 |
| | Air Flow Rate (H/L) | m³/min | 9/6.5 | 9/6.5 | 9/6.5 |
| | | cfm | 318/230 | 318/230 | 318/230 |
| | ★4 External Static Pressure | Pa | 88-39-20 | 88-39-20 | 88-39-20 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Fiber | Glass Fiber | Glass Fiber |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) |
| | Drain Pipe | mm | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) |
| Machine Weight | | kg | 30 | 30 | 30 |
| ★6 Sound Level (H/L) (220V) | | dBA | 27/23 | 27/23 | 27/23 |
| Safety Devices | | | Fuse Thermal Protector for Fan Motor | Fuse Thermal Protector for Fan Motor | Fuse Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22 : K or M Series | R22 : K or M Series | R22 : K or M Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers. | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers. | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers. |
| Drawing No. | | | C : 3D023749 | | |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 External static pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard-Low static pressure".
5 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
★6 Operation sound is measured in an anechoic chamber.
7 Refer to page 297 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

8

## Ceiling Mounted Built-in (Rear Suction Type)

| Model | | | FXYB40KV1 | FXYB50KV1 | FXYB63KV1 |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 4,000 | 5,000 | 6,300 |
| | | Btu/h | 15,900 | 19,900 | 25,000 |
| | | kW | 4.7 | 5.8 | 7.3 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 4.5 | 5.6 | 7.1 |
| ★3 Heating Capacity | | kcal/h | 4,300 | 5,400 | 6,900 |
| | | Btu/h | 17,000 | 21,500 | 27,300 |
| | | kW | 5.0 | 6.3 | 8.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 300×700×800 | 300×700×800 | 300×1,000×800 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×14×1.75 | 3×14×1.75 | 3×14×1.75 |
| | Face Area | $m^2$ | 0.132 | 0.132 | 0.221 |
| Fan | Model | | D18H2AC1V1 | D18H2AB1V1 | 2D18H2AB1V1 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 65×1 | 85×1 | 125×1 |
| | Air Flow Rate (H/L) | $m^3$/min | 11.5/9 | 14/10 | 19/14 |
| | | cfm | 406/318 | 494/353 | 671/494 |
| | ★4 External Static Pressure | Pa | 88-49-20 | 88-49-20 | 88-49-20 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Fiber | Glass Fiber | Glass Fiber |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) |
| | Drain Pipe | mm | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) |
| Machine Weight | | kg | 30 | 31 | 41 |
| ★6 Sound Level (H/L) | | dBA | 28/24 | 30/25 | 32/25 |
| Safety Devices | | | Fuse<br>Thermal Protector for Fan Motor | Thermal Protector for Fan Motor | Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22 : K or M Series | R22 : K or M Series | R22 : K or M Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers. | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers. | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers. |
| Drawing No. | | | C : 3D023749 | | |

### Notes:

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 External static pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure Standard".
5 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
★6 Operation sound is measured in an anechoic chamber.
7 Refer to page 297 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=$m^3$/min×35.3 |

## Ceiling Mounted Built-in (Rear Suction Type)

| Model | | | FXYB80KV1 | FXYB100KV1 | FXYB125KV1 |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 8,000 | 10,000 | 12,500 |
| | | Btu/h | 31,800 | 39,700 | 49,600 |
| | | kW | 9.3 | 11.6 | 14.5 |
| ★2 Cooling Capacity (19.5°CWB) | | kW | 9.0 | 11.2 | 14.0 |
| ★3 Heating Capacity | | kcal/h | 8,600 | 10,800 | 13,800 |
| | | Btu/h | 34,100 | 42,700 | 54,600 |
| | | kW | 10.0 | 12.5 | 16.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 300×1,400×800 | 300×1,400×800 | 300×1,400×800 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×14×1.75 | 3×14×1.75 | 3×14×1.75 |
| | Face Area | $m^2$ | 0.338 | 0.338 | 0.338 |
| Fan | Model | | 3D18H2AH1V1 | 3D18H2AH1V1 | 3D18H2AG1V1 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 135×1 | 135×1 | 225×1 |
| | Air Flow Rate (H/L) | $m^3$/min | 27/20 | 27/20 | 35/24 |
| | | cfm | 953/706 | 953/706 | 1,236/847 |
| | ★4 External Static Pressure | Pa | 88-49 | 88-49 | 88-49 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Fiber | Glass Fiber | Glass Fiber |
| Piping Connections | Liquid Pipes | mm | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ15.9 (Flare Connection) | ϕ19.1 (Flare Connection) | ϕ19.1 (Flare Connection) |
| | Drain Pipe | mm | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) |
| Machine Weight | | kg | 51 | 51 | 52 |
| ★6 Sound Level (H/L) | | dBA | 32/27 | 32/27 | 34/27 |
| Safety Devices | | | Thermal Fuse for Fan Motor | Thermal Fuse for Fan Motor | Fuse Thermal Fuse for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22 : K or M Series | R22 : K or M Series | R22 : K or M Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers. | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers. | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Sealing Pads, Clamps, Fuses, Screws, Washers. |
| Drawing No. | | | C : 3D023749 | | |

### Notes:

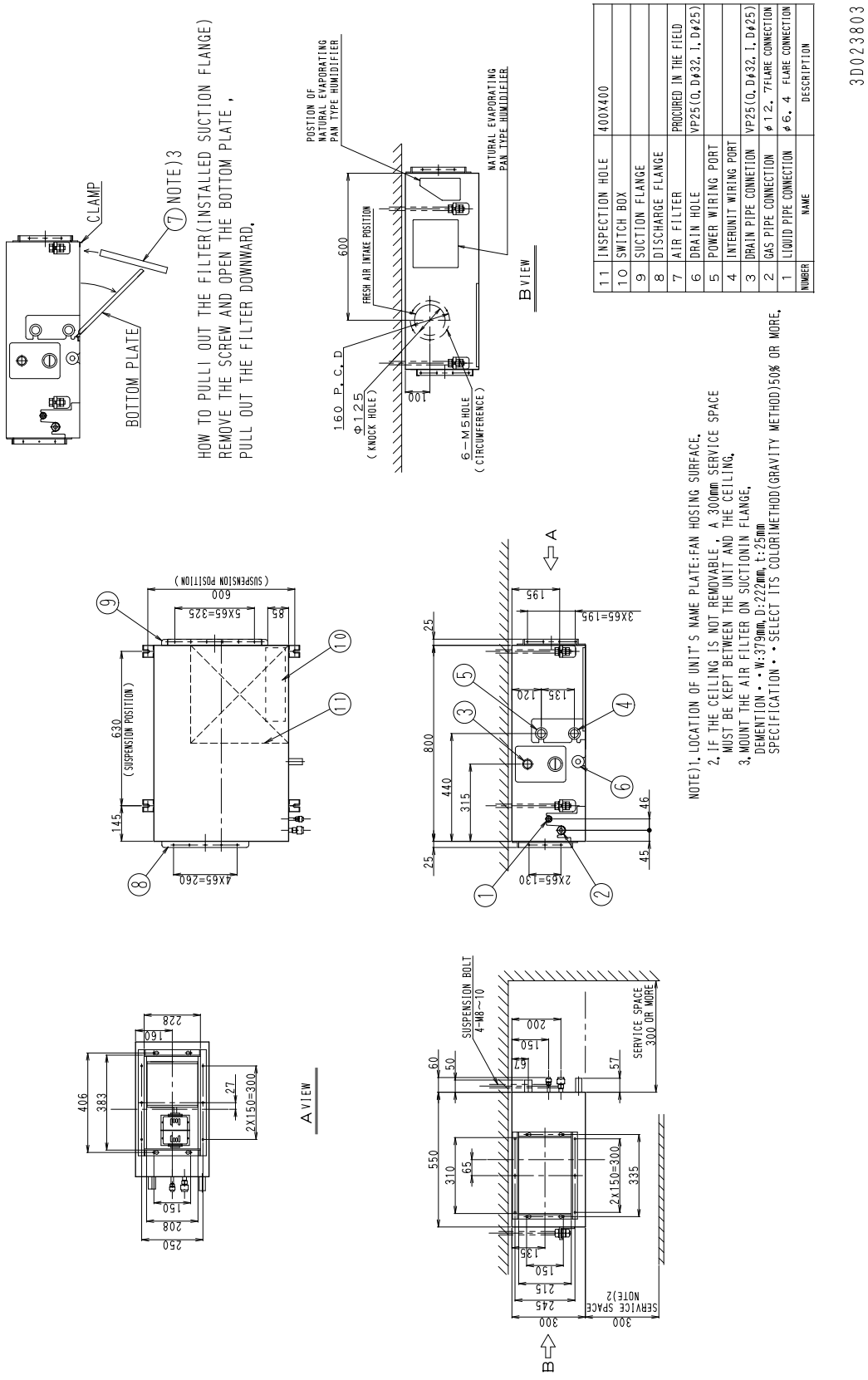
★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 External static pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure Standard".
5 Capacities are net, including a deduction for cooling (an additional for heating) for indoor fan motor heat.
★6 Operation sound is measured in an anechoic chamber.
7 Refer to page 297 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=$m^3$/min×35.3 |

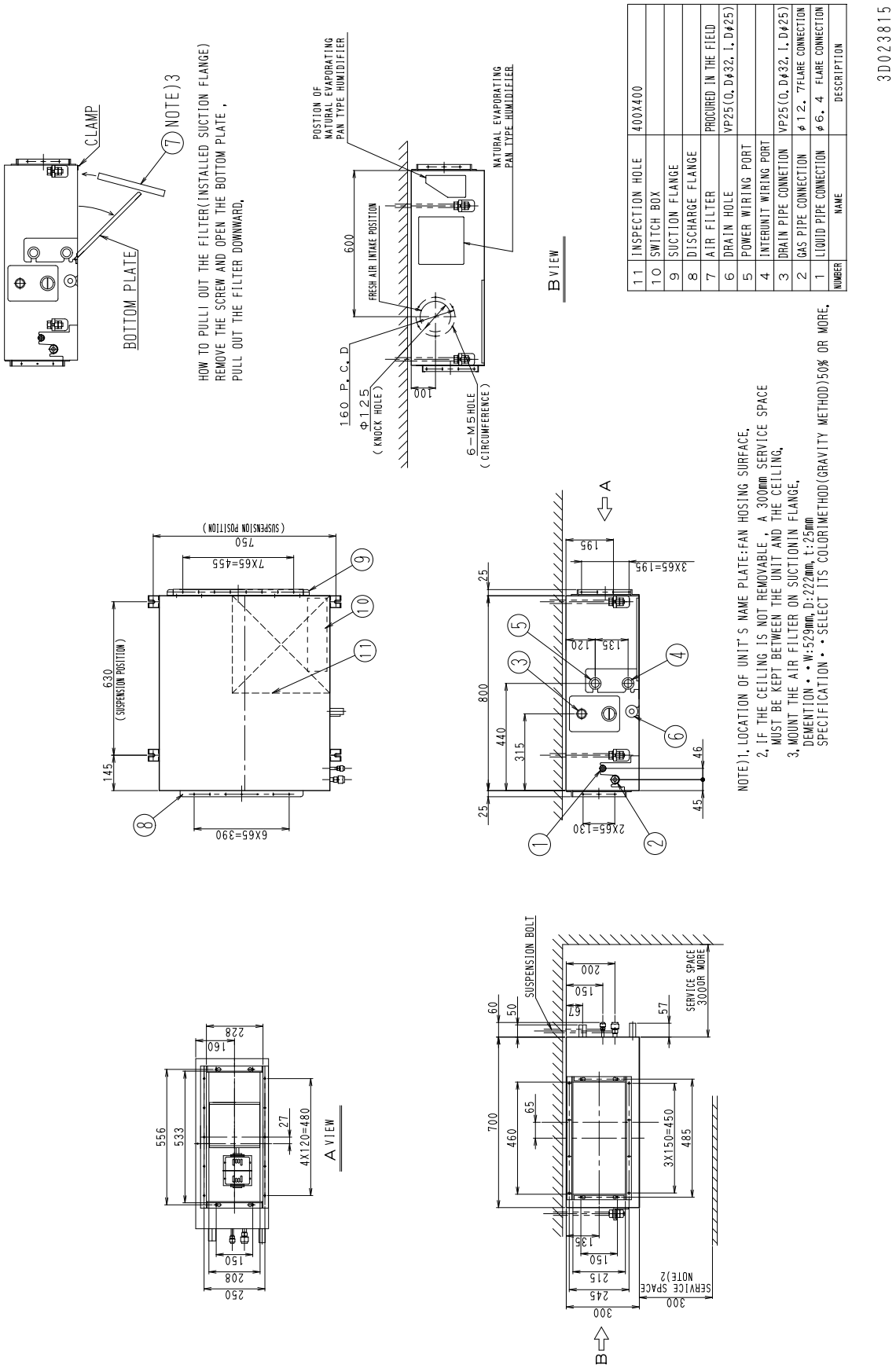
8

# 3. Dimensions

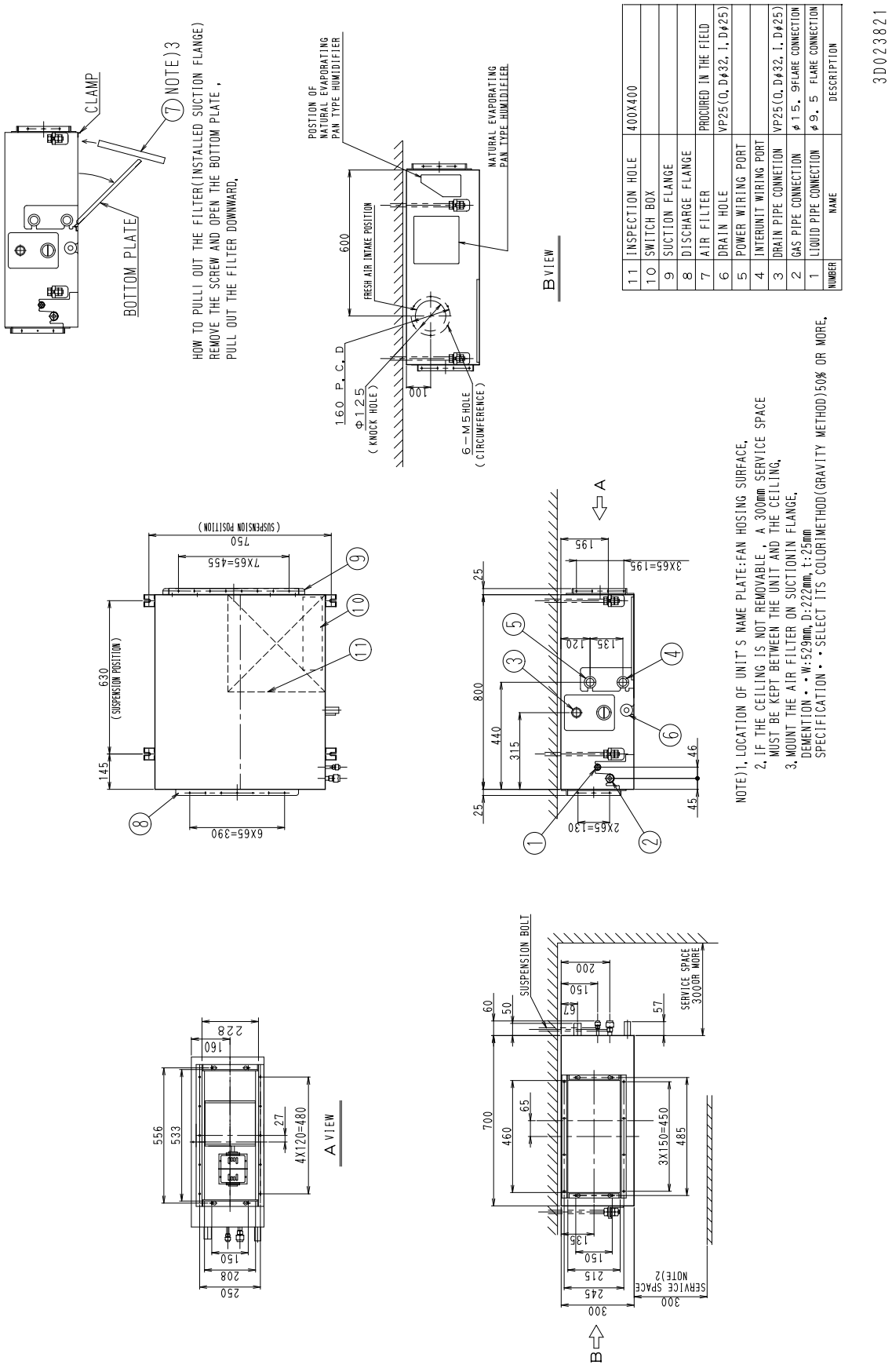
**FXYB20K**
**FXYB25K**
**FXYB32K**



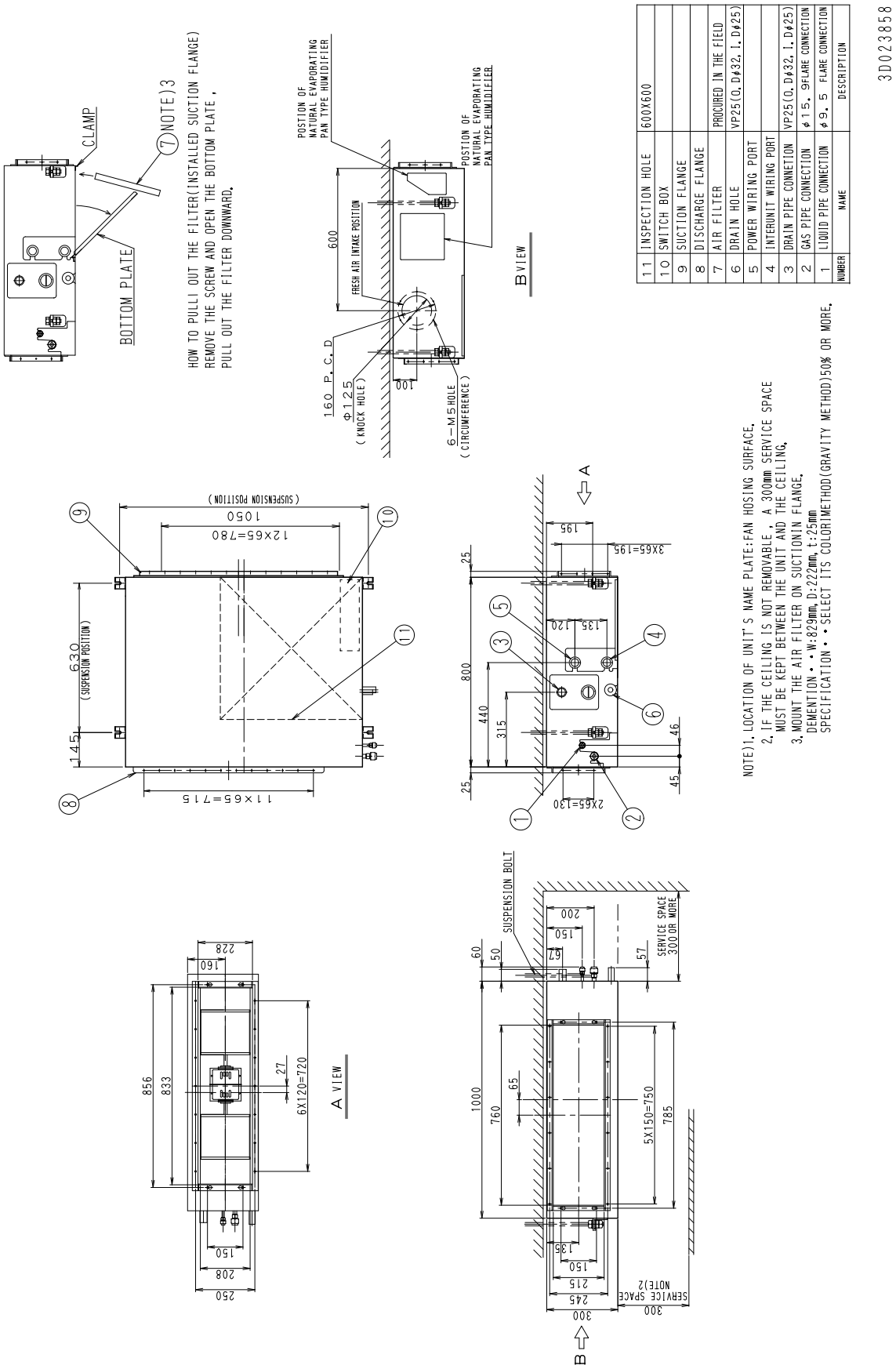
## FXYB40K


CLAMP
(7) NOTE)3
BOTTOM PLATE
HOW TO PULLI OUT THE FILTER(INSTALLED SUCTION FLANGE)
REMOVE THE SCREW AND OPEN THE BOTTOM PLATE ,
PULL OUT THE FILTER DOWNWARD,
POSTION OF NATURAL EVAPORATING PAN TYPE HUMIDIFIER
600
FRESH AIR INTAKE POSITION
160 P.C.D
φ125 (KNOCK HOLE)
100
6-M5HOLE (CIRCUMFERENCE)
NATURAL EVAPORATING PAN TYPE HUMIDIFIER
B VIEW
11 INSPECTION HOLE 400X400
10 SWITCH BOX
9 SUCTION FLANGE
8 DISCHARGE FLANGE
7 AIR FILTER PROCURED IN THE FIELD
6 DRAIN HOLE VP25(O.D ø32, I.D ø25)
5 POWER WIRING PORT
4 INTERUNIT WIRING PORT
3 DRAIN PIPE CONNETION VP25(O.D ø32, I.D ø25)
2 GAS PIPE CONNECTION ø12.7FLARE CONNECTION
1 LIQUID PIPE CONNECTION ø6.4 FLARE CONNECTION
NUMBER NAME DESCRIPTION
3D023815
NOTE)1. LOCATION OF UNIT'S NAME PLATE:FAN HOSING SURFACE,
2. IF THE CEILING IS NOT REMOVABLE , A 300mm SERVICE SPACE
MUST BE KEPT BETWEEN THE UNIT AND THE CEILING,
3. MOUNT THE AIR FILTER ON SUCTIONIN FLANGE,
DEMENTION • • W:529mm, D:222mm, t:25mm
SPECIFICATION • • SELECT ITS COLORIMETHOD(GRAVITY METHOD)50% OR MORE.
(SUSPENSION POSITION)
750
7X65=455
630
(SUSPENSION POSITION)
145
6X65=390
A
195
3X65=195
25
800
440
315
135
120
46
45
2X65=130
SUSPENSION BOLT
60
50
62
57
200
150
SERVICE SPACE 300OR MORE
700
460
65
3X150=450
485
135
150
215
245
300
SERVICE SPACE NOTE)2
B
A VIEW
228
160
556
533
27
4X120=480
150
208
250

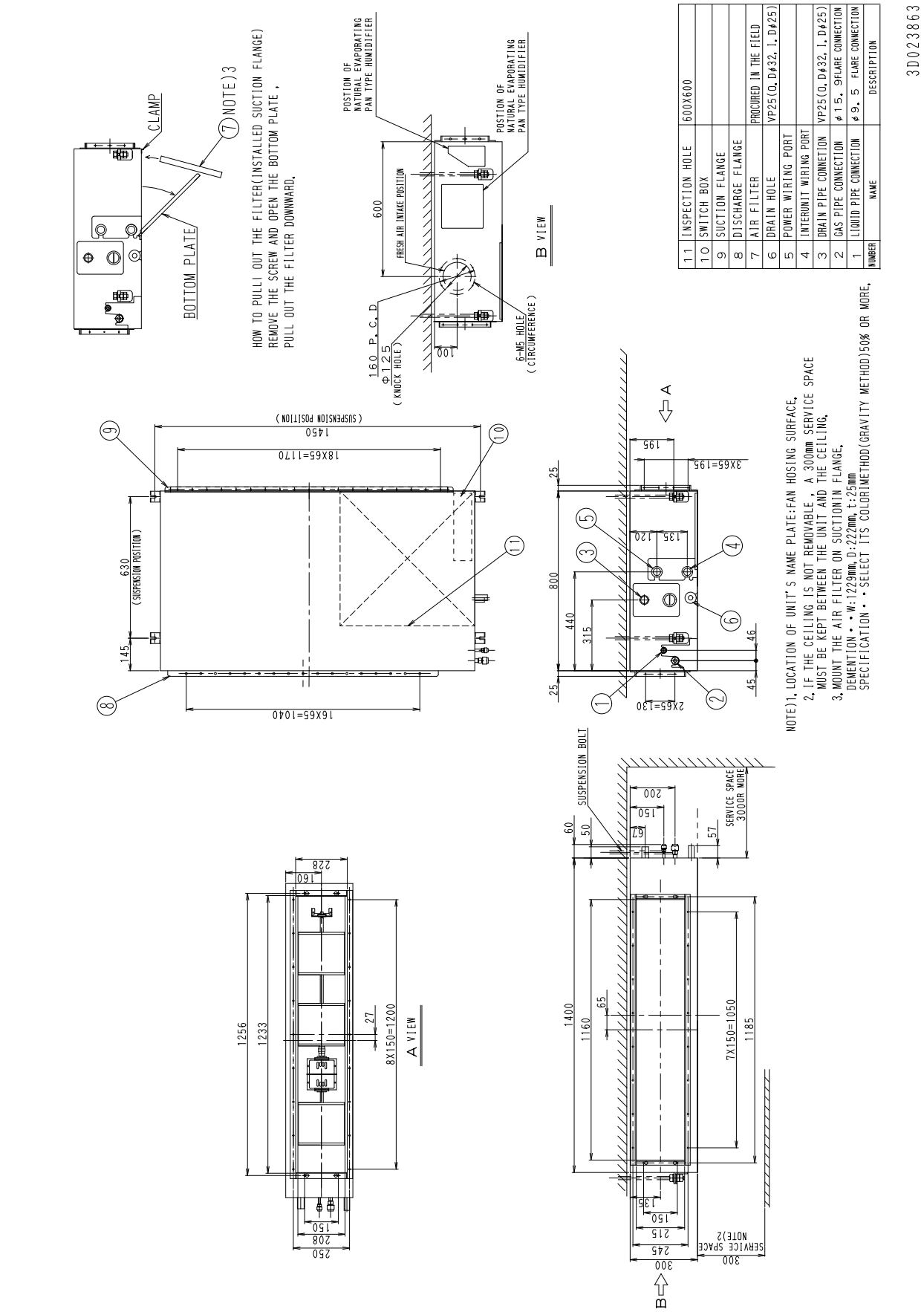
## FXYB50K


CLAMP
⑦NOTE)3
BOTTOM PLATE
HOW TO PULLI OUT THE FILTER(INSTALLED SUCTION FLANGE)
REMOVE THE SCREW AND OPEN THE BOTTOM PLATE ,
PULL OUT THE FILTER DOWNWARD.
POSTION OF NATURAL EVAPORATING PAN TYPE HUMIDIFIER
FRESH AIR INTAKE POSITION
600
160 P.C.D
Φ125 (KNOCK HOLE)
100
6-M5 HOLE (CIRCUMFERENCE)
NATURAL EVAPORATING PAN TYPE HUMIDIFIER
B VIEW
11 INSPECTION HOLE 400X400
10 SWITCH BOX
9 SUCTION FLANGE
8 DISCHARGE FLANGE PROCURED IN THE FIELD
7 AIR FILTER
6 DRAIN HOLE VP25(O.D⌀32.1.D⌀25)
5 POWER WIRING PORT
4 INTERUNIT WIRING PORT
3 DRAIN PIPE CONNECTION VP25(O.D⌀32.1.D⌀25)
2 GAS PIPE CONNECTION ⌀15.9FLARE CONNECTION
1 LIQUID PIPE CONNECTION ⌀9.5 FLARE CONNECTION
NUMBER NAME DESCRIPTION
3D023821
NOTE)1. LOCATION OF UNIT'S NAME PLATE:FAN HOSING SURFACE,
2. IF THE CEILING IS NOT REMOVABLE , A 300mm SERVICE SPACE
MUST BE KEPT BETWEEN THE UNIT AND THE CEILING,
3. MOUNT THE AIR FILTER ON SUCTIONIN FLANGE,
DEMENTION・・W:529mm, D:222mm, t:25mm
SPECIFICATION・・SELECT ITS COLORIMETHOD(GRAVITY METHOD)50% OR MORE,
(SUSPENSION POSITION)
750
7X65=455
630
(SUSPENSION POSITION)
145
6X65=390
A
195
3X65=195
25
800
440
315
135
120
46
45
2X65=130
SUSPENSION BOLT
60
50
200
150
57
SERVICE SPACE 300OR MORE
700
460
65
3X150=450
485
135
150
215
245
300
SERVICE SPACE NOTE)2
300
B
228
160
556
533
27
4X120=480
A VIEW
150
208
250

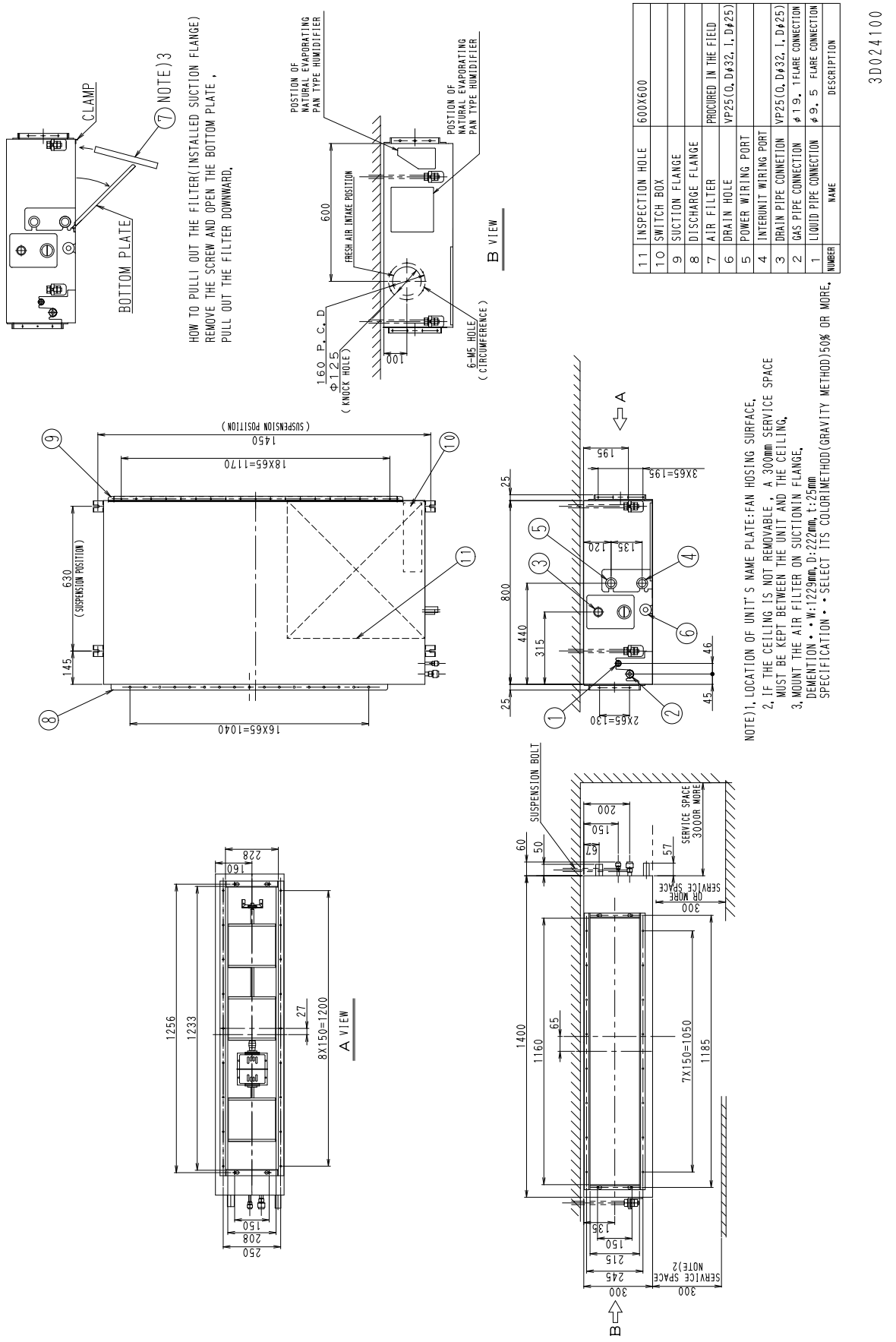
## FXYB63K


3D023858
NOTE)1. LOCATION OF UNIT'S NAME PLATE:FAN HOSING SURFACE,
2. IF THE CEILING IS NOT REMOVABLE, A 300mm SERVICE SPACE MUST BE KEPT BETWEEN THE UNIT AND THE CEILING.
3. MOUNT THE AIR FILTER ON SUCTIONIN FLANGE.
DEMENTION••W:829mm,D:222mm,t:25mm
SPECIFICATION••SELECT ITS COLOR(METHOD(GRAVITY METHOD)50% OR MORE.
11 INSPECTION HOLE 600X600
10 SWITCH BOX
9 SUCTION FLANGE
8 DISCHARGE FLANGE
7 AIR FILTER PROCURED IN THE FIELD
6 DRAIN HOLE VP25(O.D32.I.D25)
5 POWER WIRING PORT
4 INTERUNIT WIRING PORT
3 DRAIN PIPE CONNETION VP25(O.D32.I.D25)
2 GAS PIPE CONNECTION φ15.9FLARE CONNECTION
1 LIQUID PIPE CONNECTION φ9.5 FLARE CONNECTION
NUMBER NAME DESCRIPTION
CLAMP
BOTTOM PLATE
(7)NOTE)3
HOW TO PULLI OUT THE FILTER(INSTALLED SUCTION FLANGE)
REMOVE THE SCREW AND OPEN THE BOTTOM PLATE,
PULL OUT THE FILTER DOWNWARD.
POSTION OF NATURAL EVAPORATING PAN TYPE HUMIDIFIER
600
FRESH AIR INTAKE POSITION
160 P.C.D
Φ125
(KNOCK HOLE)
100
6-M5 HOLE
(CIRCUMFERENCE)
B VIEW
(SUSPENSION POSITION)
1050
12×65=780
630
145
11×65=715
A
195
3×65=195
25
800
440
315
135
120
46
45
2×65=130
SUSPENSION BOLT
60
50
200
150
67
57
SERVICE SPACE 300 OR MORE
1000
760
65
5×150=750
785
135
150
215
245
300
SERVICE SPACE NOTE)2
300
B
A VIEW
856
833
228
160
27
6×120=720
150
208
250

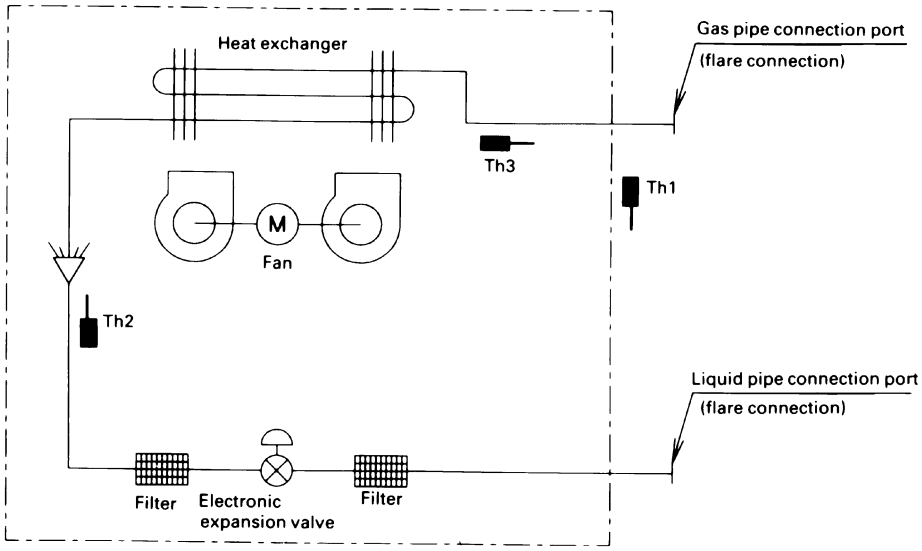
## FXYB80K


CLAMP
⑦NOTE)3
BOTTOM PLATE
HOW TO PULLI OUT THE FILTER(INSTALLED SUCTION FLANGE)
REMOVE THE SCREW AND OPEN THE BOTTOM PLATE,
PULL OUT THE FILTER DOWNWARD.
POSTION OF NATURAL EVAPORATING PAN TYPE HUMIDIFIER
600
FRESH AIR INTAKE POSITION
160 P.C.D
Φ125
(KNOCK HOLE)
6-M5 HOLE
(CIRCUMFERENCE)
100
B VIEW
11 INSPECTION HOLE 600X600
10 SWITCH BOX
9 SUCTION FLANGE
8 DISCHARGE FLANGE
7 AIR FILTER PROCURED IN THE FIELD
6 DRAIN HOLE VP25(O.D32.I.D25)
5 POWER WIRING PORT
4 INTERUNIT WIRING PORT
3 DRAIN PIPE CONNETION VP25(O.D32.I.D25)
2 GAS PIPE CONNECTION Φ15.9FLARE CONNECTION
1 LIQUID PIPE CONNECTION Φ9.5 FLARE CONNECTION
NUMBER NAME DESCRIPTION
3D023863
NOTE)1. LOCATION OF UNIT'S NAME PLATE:FAN HOSING SURFACE,
2. IF THE CEILING IS NOT REMOVABLE, A 300mm SERVICE SPACE
MUST BE KEPT BETWEEN THE UNIT AND THE CEILING,
3. MOUNT THE AIR FILTER ON SUCTIONIN FLANGE,
DEMENTION••W:1229mm,D:222mm,t:25mm
SPECIFICATION••SELECT ITS COLOR(METHOD(GRAVITY METHOD)50% OR MORE,
(SUSPENSION POSITION)
1450
18X65=1170
630
(SUSPENSION POSITION)
145
16X65=1040
A
195
3X65=195
25
800
440
315
135
120
46
45
25
2X65=130
SUSPENSION BOLT
60
50
200
150
67
57
SERVICE SPACE
300OR MORE
1400
1160
65
7X150=1050
1185
135
150
215
245
300
SERVICE SPACE
NOTE)2
300
B
228
160
1256
1233
27
8X150=1200
A VIEW
250
208
150

**FXYB100K**
**FXYB125K**



# 4. Piping Diagrams




Th1: Thermister for suction air temp.
Th2: Thermister for liquid line temp.
Th3: Thermister for gas line temp.

4D034245

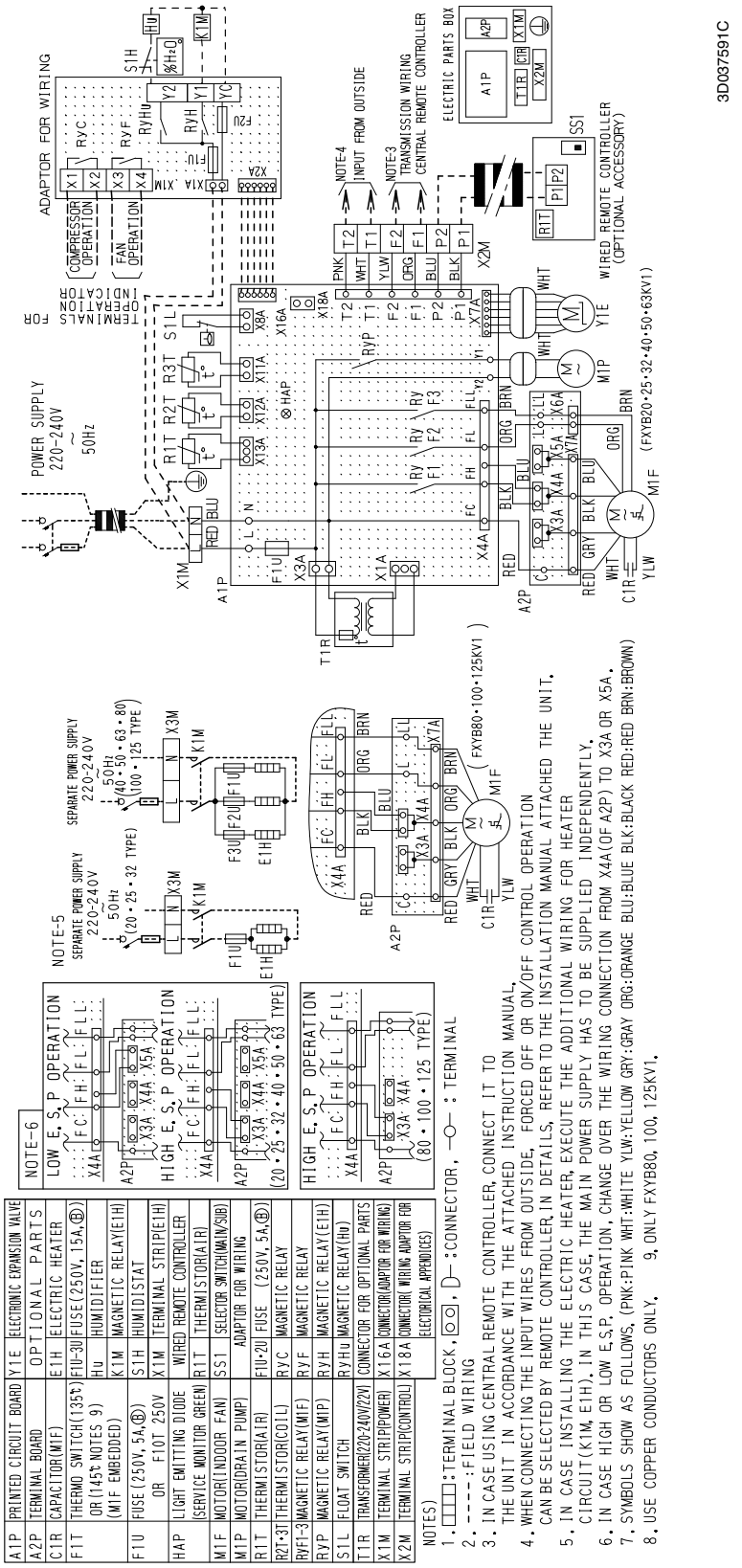
■ **Refrigerant pipe connection port diameters**

(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXYB20K / 25K / 32K / 40K | ϕ12.7 | ϕ6.4 |
| FXYB50K / 63K / 80K | ϕ15.9 | ϕ9.5 |
| FXYB100K / 125K | ϕ19.1 | |

# 5. Wiring Diagrams

**FXYB20K / 25K / 32K / 40K / 50K / 63K/ 80K / 100K/ 125KV1**



# 6. Capacity Tables

## 6.1 Cooling Capacity

### FXYB – K

**[50Hz]** **Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.9 | 1.9 |
| | 12.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.8 | 1.9 |
| | 14.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.8 | 1.8 |
| | 16.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.8 | 1.8 |
| | 18.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 20.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 21.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.7 | 1.8 |
| | 23.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.6 | 1.9 | 2.6 | 1.7 |
| | 25.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 |
| | 27.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 |
| | 29.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.5 | 1.8 | 2.5 | 1.7 |
| | 31.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.7 |
| | 33.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.5 | 1.7 |
| | 35.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.4 | 1.8 | 2.4 | 1.7 |
| | 37.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.3 | 1.8 | 2.3 | 1.7 | 2.4 | 1.7 |
| | 39.0 | 1.5 | 1.4 | 1.8 | 1.6 | 2.1 | 1.7 | 2.2 | 1.8 | 2.2 | 1.8 | 2.3 | 1.7 | 2.3 | 1.6 |
| 25 | 10.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 12.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.6 | 2.2 |
| | 14.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.6 | 2.2 |
| | 16.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 18.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.5 | 2.1 |
| | 20.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.4 | 2.1 |
| | 21.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.4 | 2.1 |
| | 23.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.3 | 2.2 | 3.4 | 2.1 |
| | 25.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.1 |
| | 27.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.0 |
| | 29.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.1 | 2.1 | 3.2 | 2.0 |
| | 31.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.1 | 2.1 | 3.2 | 2.0 |
| | 33.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.2 | 3.1 | 2.1 | 3.1 | 2.0 |
| | 35.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.1 | 3.1 | 2.0 |
| | 37.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.2 | 3.0 | 2.1 | 3.0 | 2.0 |
| | 39.0 | 1.9 | 1.7 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.2 | 2.9 | 2.1 | 3.0 | 2.0 |
| 32 | 10.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.7 | 2.8 |
| | 12.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.6 | 2.7 |
| | 14.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.6 | 2.7 |
| | 16.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.5 | 2.7 |
| | 18.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.5 | 2.6 |
| | 20.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.4 | 2.6 |
| | 21.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.3 | 2.7 | 4.4 | 2.6 |
| | 23.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.2 | 2.7 | 4.3 | 2.5 |
| | 25.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.2 | 2.7 | 4.3 | 2.5 |
| | 27.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.1 | 2.6 | 4.2 | 2.5 |
| | 29.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.0 | 2.6 | 4.1 | 2.5 |
| | 31.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 4.0 | 2.6 | 4.1 | 2.5 |
| | 33.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 3.9 | 2.6 | 4.0 | 2.4 |
| | 35.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.7 | 3.9 | 2.6 | 4.0 | 2.4 |
| | 37.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.7 | 3.8 | 2.5 | 3.9 | 2.4 |
| | 39.0 | 2.5 | 2.1 | 2.9 | 2.4 | 3.4 | 2.5 | 3.6 | 2.6 | 3.7 | 2.6 | 3.8 | 2.5 | 3.8 | 2.4 |
| 40 | 10.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.9 | 3.5 |
| | 12.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.8 | 3.4 |
| | 14.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.7 | 3.4 |
| | 16.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 18.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.6 | 3.3 |
| | 20.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.5 | 3.2 |
| | 21.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.5 | 3.2 |
| | 23.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.3 | 3.4 | 5.4 | 3.2 |
| | 25.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.2 | 3.4 | 5.3 | 3.2 |
| | 27.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.1 | 3.3 | 5.2 | 3.1 |
| | 29.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.1 | 3.3 | 5.2 | 3.1 |
| | 31.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 5.0 | 3.3 | 5.1 | 3.1 |
| | 33.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.4 | 4.9 | 3.2 | 5.0 | 3.1 |
| | 35.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.7 | 3.4 | 4.8 | 3.2 | 4.9 | 3.0 |
| | 37.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.7 | 3.3 | 4.8 | 3.2 | 4.9 | 3.0 |
| | 39.0 | 3.1 | 2.6 | 3.7 | 3.0 | 4.2 | 3.1 | 4.5 | 3.2 | 4.6 | 3.3 | 4.7 | 3.2 | 4.8 | 3.0 |

## FXYB – K

**[50Hz]** **Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. 14.0°CWB / 20°CDB | | 16.0°CWB / 23°CDB | | 18.0°CWB / 26°CDB | | 19.0°CWB / 27°CDB | | 20.0°CWB / 28°CDB | | 22.0°CWB / 30°CDB | | 24.0°CWB / 32°CDB | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.3 | 4.2 |
| | 12.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.2 | 4.2 |
| | 14.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.1 | 4.1 |
| | 16.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 7.0 | 4.1 |
| | 18.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 6.9 | 4.0 |
| | 20.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 6.8 | 4.0 |
| | 21.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 6.8 | 3.9 |
| | 23.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.6 | 4.2 | 6.7 | 3.9 |
| | 25.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.5 | 4.1 | 6.6 | 3.9 |
| | 27.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.4 | 4.1 | 6.5 | 3.8 |
| | 29.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.3 | 4.0 | 6.4 | 3.8 |
| | 31.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.2 | 4.0 | 6.3 | 3.8 |
| | 33.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.1 | 3.9 | 6.2 | 3.8 |
| | 35.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.1 | 6.0 | 3.9 | 6.2 | 3.7 |
| | 37.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 3.9 | 5.8 | 4.1 | 5.9 | 3.9 | 6.1 | 3.7 |
| | 39.0 | 3.9 | 3.2 | 4.6 | 3.6 | 5.3 | 3.8 | 5.6 | 4.0 | 5.7 | 4.0 | 5.8 | 3.9 | 6.0 | 3.7 |
| 63 | 10.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.3 | 5.6 |
| | 12.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.1 | 5.5 |
| | 14.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 9.0 | 5.4 |
| | 16.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.9 | 5.4 |
| | 18.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.8 | 5.3 |
| | 20.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.7 | 5.2 |
| | 21.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.4 | 5.6 | 8.6 | 5.2 |
| | 23.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.3 | 5.5 | 8.5 | 5.1 |
| | 25.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.2 | 5.4 | 8.4 | 5.1 |
| | 27.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.1 | 5.4 | 8.3 | 5.1 |
| | 29.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 8.0 | 5.3 | 8.2 | 5.0 |
| | 31.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 7.9 | 5.3 | 8.0 | 5.0 |
| | 33.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 7.8 | 5.2 | 7.9 | 5.0 |
| | 35.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.5 | 5.5 | 7.6 | 5.2 | 7.8 | 4.9 |
| | 37.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.4 | 5.4 | 7.5 | 5.1 | 7.7 | 4.9 |
| | 39.0 | 4.9 | 4.2 | 5.8 | 4.8 | 6.7 | 4.9 | 7.1 | 5.2 | 7.2 | 5.4 | 7.4 | 5.1 | 7.6 | 4.9 |
| 80 | 10.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.7 | 6.8 |
| | 12.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.6 | 6.7 |
| | 14.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.4 | 6.6 |
| | 16.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.3 | 6.6 |
| | 18.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.1 | 6.5 |
| | 20.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 11.0 | 6.4 |
| | 21.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.7 | 6.8 | 10.9 | 6.3 |
| | 23.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.6 | 6.7 | 10.8 | 6.3 |
| | 25.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.4 | 6.6 | 10.6 | 6.2 |
| | 27.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.3 | 6.5 | 10.5 | 6.2 |
| | 29.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.1 | 6.5 | 10.3 | 6.1 |
| | 31.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 10.0 | 6.4 | 10.2 | 6.1 |
| | 33.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.6 | 6.7 | 9.8 | 6.4 | 10.0 | 6.0 |
| | 35.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.3 | 9.5 | 6.6 | 9.7 | 6.3 | 9.9 | 6.0 |
| | 37.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.4 | 9.3 | 6.6 | 9.5 | 6.3 | 9.7 | 6.0 |
| | 39.0 | 6.2 | 5.1 | 7.3 | 5.8 | 8.4 | 6.1 | 9.0 | 6.4 | 9.2 | 6.5 | 9.4 | 6.2 | 9.6 | 5.9 |
| 100 | 10.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.6 | 8.5 |
| | 12.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.4 | 8.4 |
| | 14.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.2 | 8.3 |
| | 16.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 14.1 | 8.2 |
| | 18.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 13.9 | 8.0 |
| | 20.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 13.7 | 7.9 |
| | 21.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.3 | 8.4 | 13.6 | 7.9 |
| | 23.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.2 | 8.3 | 13.4 | 7.8 |
| | 25.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 13.0 | 8.2 | 13.2 | 7.7 |
| | 27.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 12.8 | 8.1 | 13.0 | 7.6 |
| | 29.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 12.6 | 8.0 | 12.9 | 7.6 |
| | 31.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 12.4 | 7.9 | 12.7 | 7.5 |
| | 33.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.9 | 8.3 | 12.2 | 7.9 | 12.5 | 7.5 |
| | 35.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.8 | 8.2 | 12.0 | 7.8 | 12.3 | 7.5 |
| | 37.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.6 | 8.1 | 11.9 | 7.8 | 12.1 | 7.4 |
| | 39.0 | 7.7 | 6.4 | 9.1 | 7.2 | 10.5 | 7.6 | 11.2 | 7.9 | 11.4 | 8.1 | 11.7 | 7.7 | 11.9 | 7.3 |
| 125 | 10.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.3 | 10.6 |
| | 12.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 18.0 | 10.5 |
| | 14.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.8 | 10.3 |
| | 16.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.6 | 10.2 |
| | 18.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.3 | 10.1 |
| | 20.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.1 | 9.9 |
| | 21.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.6 | 10.5 | 17.0 | 9.9 |
| | 23.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.4 | 10.4 | 16.8 | 9.8 |
| | 25.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.2 | 10.3 | 16.5 | 9.7 |
| | 27.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 16.0 | 10.1 | 16.3 | 9.6 |
| | 29.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 15.7 | 10.1 | 16.1 | 9.5 |
| | 31.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 15.5 | 9.9 | 15.8 | 9.5 |
| | 33.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.9 | 10.3 | 15.3 | 9.9 | 15.6 | 9.4 |
| | 35.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.7 | 10.3 | 15.1 | 9.8 | 15.4 | 9.3 |
| | 37.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.8 | 14.5 | 10.2 | 14.8 | 9.7 | 15.1 | 9.3 |
| | 39.0 | 9.7 | 8.0 | 11.4 | 9.1 | 13.1 | 9.5 | 14.0 | 9.9 | 14.3 | 10.2 | 14.6 | 9.6 | 14.9 | 9.2 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2 Heating Capacity

### FXYB – K

**[50Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| | -12.6 | -13.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -10.5 | -11.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -9.5 | -10.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -8.5 | -9.1 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -7.0 | -7.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -5.0 | -5.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -3.0 | -3.7 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | 0.0 | -0.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 3.0 | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -12.6 | -13.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -10.5 | -11.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | -9.5 | -10.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -8.5 | -9.1 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -7.0 | -7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -5.0 | -5.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -3.0 | -3.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | 0.0 | -0.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 3.0 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -12.6 | -13.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -10.5 | -11.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | -9.5 | -10.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -8.5 | -9.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -7.0 | -7.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -5.0 | -5.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -3.0 | -3.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | 0.0 | -0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 3.0 | 2.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.4 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -12.6 | -13.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -10.5 | -11.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -9.5 | -10.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -8.5 | -9.1 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| | -7.0 | -7.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -5.0 | -5.6 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -3.0 | -3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | 0.0 | -0.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 3.0 | 2.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.5 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.7 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## FXYB – K

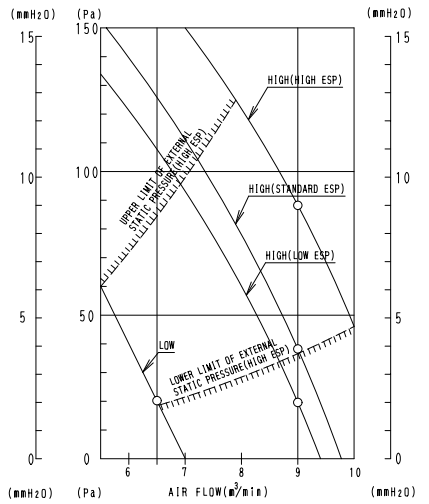
**[50Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -12.6 | -13.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | -10.5 | -11.0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| | -9.5 | -10.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| | -8.5 | -9.1 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | -7.0 | -7.6 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -5.0 | -5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -3.0 | -3.7 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | 0.0 | -0.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 3.0 | 2.2 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.1 | 6.1 | 6.1 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 6.9 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.1 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 80 | -14.7 | -15.0 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| | -12.6 | -13.0 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | -10.5 | -11.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| | -9.5 | -10.0 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| | -8.5 | -9.1 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| | -7.0 | -7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| | -5.0 | -5.6 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| | -3.0 | -3.7 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| | 0.0 | -0.7 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.4 |
| | 3.0 | 2.2 | 9.3 | 9.3 | 9.3 | 9.3 | 9.2 | 8.4 |
| | 5.0 | 4.1 | 9.6 | 9.6 | 9.6 | 9.6 | 9.2 | 8.4 |
| | 7.0 | 6.0 | 10.0 | 10.0 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 9.0 | 7.9 | 10.3 | 10.3 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 11.0 | 9.8 | 10.6 | 10.6 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 13.0 | 11.8 | 11.0 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 15.0 | 13.7 | 11.3 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| 100 | -14.7 | -15.0 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| | -12.6 | -13.0 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| | -10.5 | -11.0 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| | -9.5 | -10.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| | -8.5 | -9.1 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 |
| | -7.0 | -7.6 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| | -5.0 | -5.6 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| | -3.0 | -3.7 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| | 0.0 | -0.7 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 10.5 |
| | 3.0 | 2.2 | 11.7 | 11.7 | 11.7 | 11.7 | 11.5 | 10.5 |
| | 5.0 | 4.1 | 12.1 | 12.1 | 12.1 | 12.0 | 11.5 | 10.5 |
| | 7.0 | 6.0 | 12.5 | 12.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 9.0 | 7.9 | 12.9 | 12.9 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 11.0 | 9.8 | 13.3 | 13.3 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 13.0 | 11.8 | 13.8 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 15.0 | 13.7 | 14.2 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| 125 | -14.7 | -15.0 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| | -12.6 | -13.0 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| | -10.5 | -11.0 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| | -9.5 | -10.0 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| | -8.5 | -9.1 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | -7.0 | -7.6 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| | -5.0 | -5.6 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| | -3.0 | -3.7 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |
| | 0.0 | -0.7 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 13.5 |
| | 3.0 | 2.2 | 14.9 | 14.9 | 14.9 | 14.9 | 14.7 | 13.5 |
| | 5.0 | 4.1 | 15.4 | 15.4 | 15.4 | 15.3 | 14.7 | 13.5 |
| | 7.0 | 6.0 | 16.0 | 16.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 9.0 | 7.9 | 16.5 | 16.5 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 11.0 | 9.8 | 17.0 | 17.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 13.0 | 11.8 | 17.5 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 15.0 | 13.7 | 18.1 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

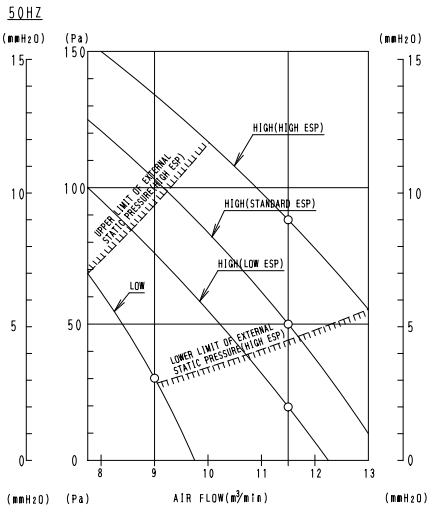
# 7. Fan Performances

**FXYB20K·25K·32K**



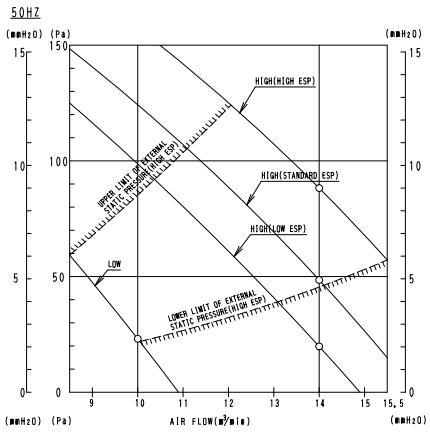

3D024121

**FXYB40K**



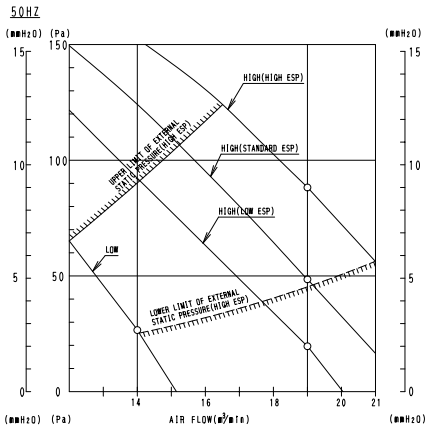

3D024122

**FXYB50K**



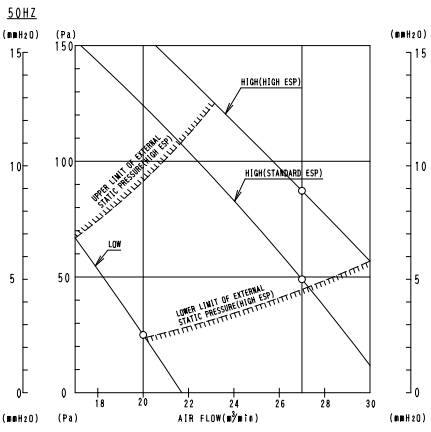

3D024123

**FXYB63K**



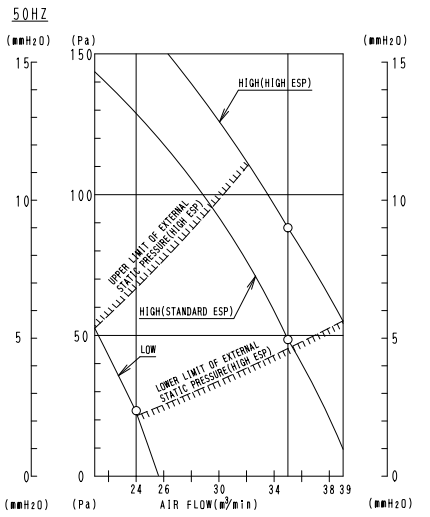

3D024124

**FXYB80K·100K**




3D024125

**FXYB125K**




3D024126

**Notes:**

1. The remote controller can be used to switch between “high” and “low”.
2. The air flow is set to “standard” before leaving the factory. It is possible to switch between “standard ESP” and “high ESP” by changing the terminals in the indoor unit electrical box.

# 8. Electric Characteristics

| Units | | | | | Power supply | | IFM | | INPUT(W) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Type | Hz | Volts | Voltage range | MCA | MFA | kW | FLA | Cooling | Heating |
| FXYB20K<br>FXYB25K<br>FXYB32K | V1 | 50 | 220-240 | MAX. 264<br>Min. 198 | 0.5 | 15 | 0.05 | 0.4 | 110 | 90 |
| FXYB40K | | | | | 0.6 | 15 | 0.065 | 0.5 | 127 | 107 |
| FXYB50K | | | | | 0.9 | 15 | 0.085 | 0.7 | 140 | 120 |
| FXYB63K | | | | | 1.1 | 15 | 0.125 | 0.9 | 184 | 164 |
| FXYB80K<br>FXYB100K | | | | | 1.3 | 15 | 0.135 | 1.0 | 216 | 196 |
| FXYB125K | | | | | 1.8 | 15 | 0.225 | 1.4 | 290 | 270 |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
kW : Fan Motor Rated Output(KW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range

   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

   MCA = 1.25 X FLA

   MFA ≦ 4 X FLA

   (Next lower standard fuse rating. Min. 15A)

4. Select wire size based on the MCA.

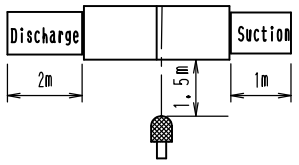
5. Instead of fuse, use Circuit Breaker.

4D023782

# 9. Sound Levels

## Overall

■ **Ceiling Mounted Built-In Type (Rear Suction)**




4D023955

**Notes:**

1. The operating conditions are assumed to be standard (JIS conditions).
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

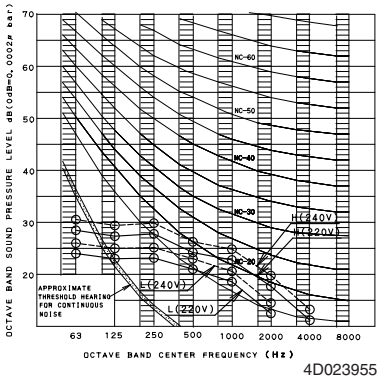
dBA

| Model | 220V50Hz | | 240V50Hz | |
|---|---|---|---|---|
| | H | L | H | L |
| FXYB20K<br>FXYB25K<br>FXYB32K | 27 | 23 | 29 | 25 |
| FXYB40K | 28 | 24 | 30 | 26 |
| FXYB50K | 30 | 25 | 32 | 27 |
| FXYB63K | 32 | 25 | 33 | 27 |
| FXYB80K<br>FXYB100K | 32 | 27 | 34 | 29 |
| FXYB125K | 34 | 27 | 36 | 29 |

## Octave Band Level

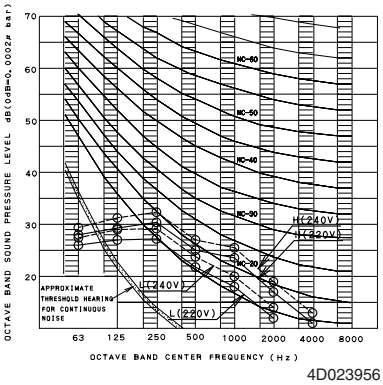
○——○ 220V
○- - - -○ 240V

**FXYB20·25·32KV1**



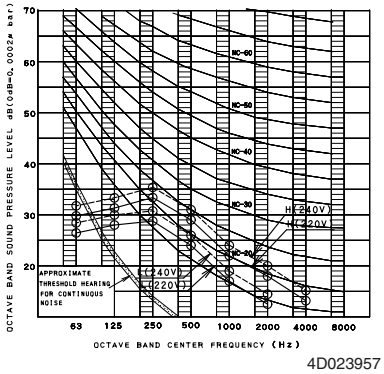

4D023955

**FXYB40KV1**



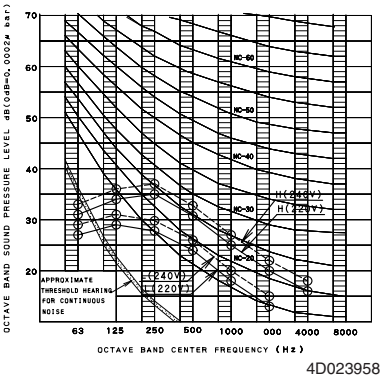

4D023956

**FXYB50KV1**



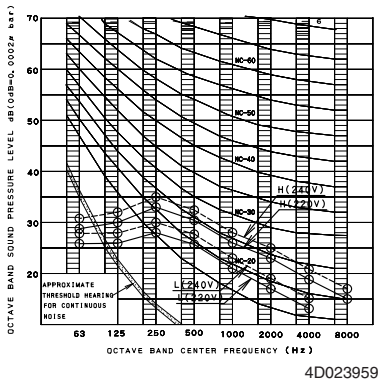

4D023957

**FXYB63KV1**



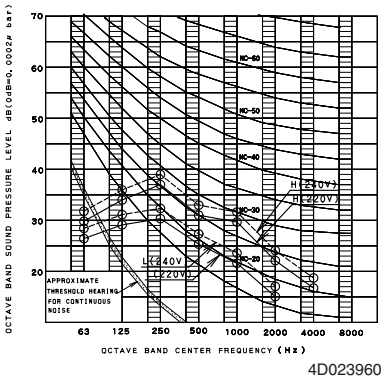

4D023958

**FXYB80·100KV1**




4D023959

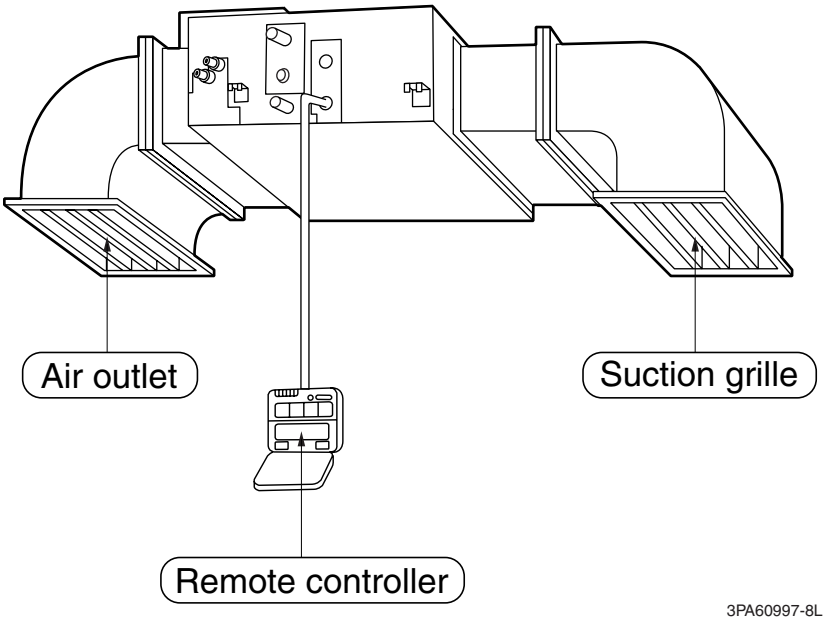
**FXYB125KV1**




4D023960

# 10. Installation

## Installation Example

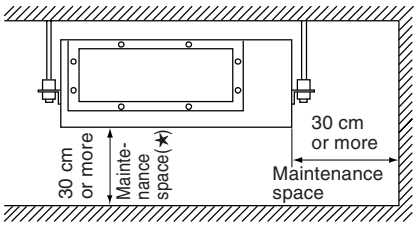



3PA60997-8L

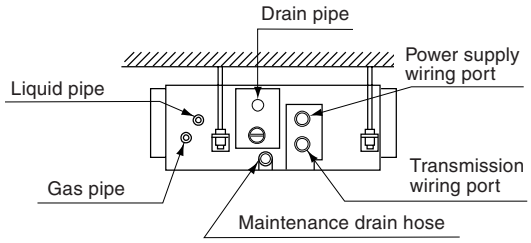
## Service Space

① Select an installation site where the following conditions are satisfied and that meets with your customer's approval.
- Where optimum air distribution can be ensured.
- Where nothing blocks air passage.
- Where condensate can be properly drained.
- If supporting structural members are not strong enough to take the unit's weight, the unit could fall out of place and cause serious injury.
- Where the false ceiling is not noticeably on an incline.
- Where sufficient clearance for maintenance and service can be ensured.
- Where piping between indoor and outdoor units is possible within the allowable limit (Refer to the installation manual for the outdoor unit.)
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1 m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)

② Use suspension bolts for installation. Check whether the ceiling is strong enough to support the weight of the unit or not. If there is a risk, reinforce the ceiling before installing the unit.




(★) If the ceiling is removable, this maintenance space don't need.



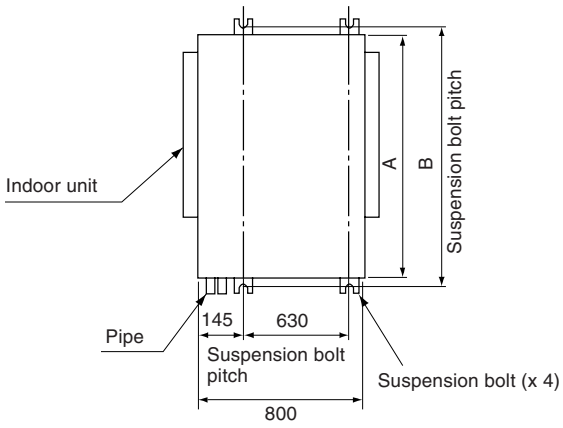

3PA60998-15S-1

**Note:**
Above figure means minimum value. Please keep these value at least.

## Bolt Pitch

① Relation of ceiling opening to suspension bolt position

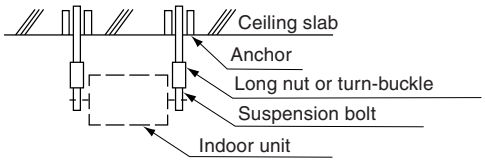
| Model | A | B |
|---|---|---|
| FXYB20 • 25 • 32KV1 | 550 | 600 |
| FXYB40 • 50KV1 | 700 | 750 |
| FXYB63KV1 | 1000 | 1050 |
| FXYB80 • 100 • 125KV1 | 1400 | 1450 |




② The fan speed for this indoor unit is preset to provide standard external static pressure.

③ Install suspension bolts. (Use bolts of 10 mm diameter.)
Use a hole-in-anchor, sunken insert, sunken anchor or other field supplied part to reinforce the ceiling for bearing the unit weight.

〈 Installation example 〉

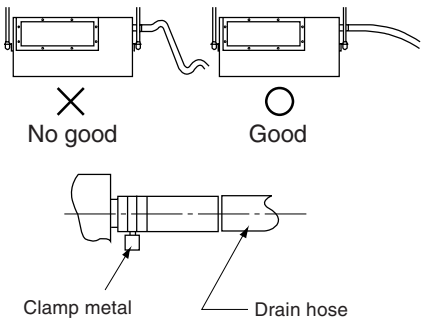



Note: All the above parts are field supplied.

3PA60998-15S-2

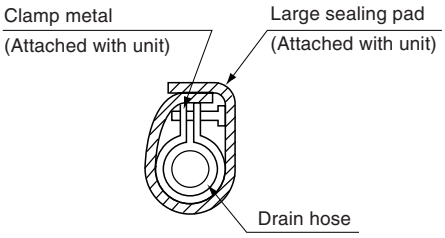
## Drain Piping Work

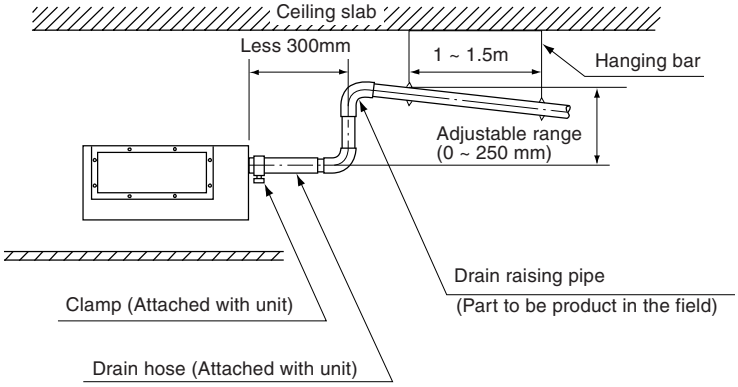
〈〈 **Rig the drain pipe as shown below and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.** 〉〉



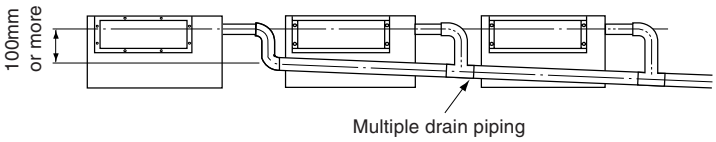

① Install the drain pipes.
- Keep piping as short as possible and slope it downwards so that air may not remaine trapped inside the pipe.
- Keep pipe size equal to or greater than that of the connecting pipe (Vinyl pipe of 25 mm nominal diam. and 32 mm outer diam.).
- Use the attached drain hose and clamp. Tighten the clamp firmly.
- Insulate the clamp with the attached sealing pad.
- Insulate the drain hose inside the building.
- If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping as shown in the drawing (part to be procured in the field).

〈 **HOW TO INSTALL PIPING** 〉
(1) Connect the drain hose to the drain raising pipes, and insulate them.
(2) Connect the drain hose to the drain outlet on the indoor unit, and tighten it with the clamp.
(3) Insulate both metal clamp and drain hose with the attached sealing pad.

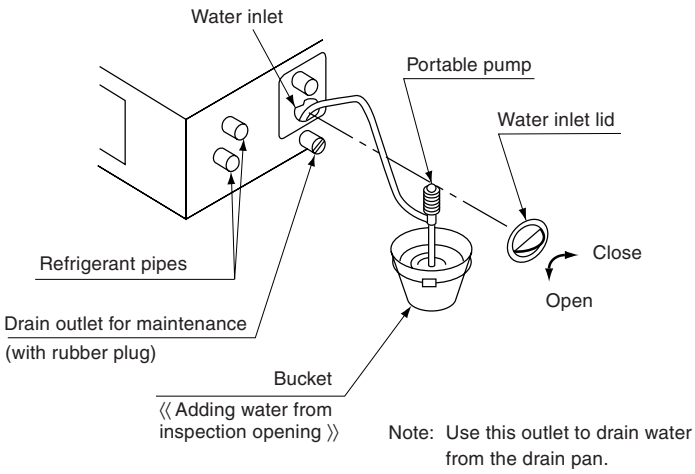



- To ensure a downward slope of 1:100, install hanging bars every 1 to 1.5 m.
- If unifying multiple drain pipes, install pipes shown right.




② After piping work is finished, check drainage flows smoothly.
- Open the water inlet lid, add approximately 1000 cc of water gradually and check drainage flow




Note: Use this outlet to drain water from the drain pan.

3PA60998-15S-6

8

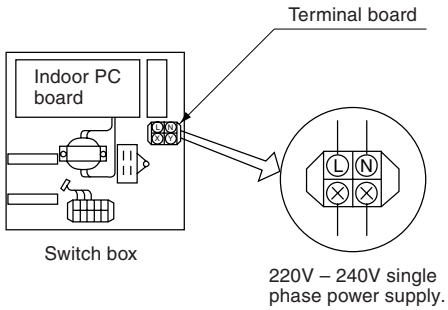
**WHEN ELECTRIC WIRING WORK IS FINISHED**

- Check drainage flow during COOL running, explained under “TEST OPERATION”.

**WHEN ELECTRIC WIRING WORK IS NOT FINISHED**

- Remove the electric parts box lid, connect a power supply and remote controller to the terminals.
  (Refer to the Installation Manual How to CONNECT WIRINGS)

  Next, press the inspection/test operation button “ TEST ” on the remote controller. The unit will engage the test operation mode. Press the operation mode selector button “ ” until selecting FAN OPERATION “ ”. Then, press the ON/OFF button “ ”. The indoor unit fan and drain pump will start up. Check that the water has drained from the unit. Press “ TEST ” to go back to the first mode.

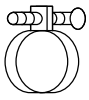
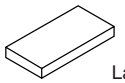
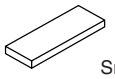



3PA60998-15S-7

# 11. Accessories

## Standard Accessories

**ACCESSORIES** Check the following accessories are included with your unit.

| Name | Clamp metal | Drain hose | Insulation for fitting | Sealing pad | Screws for duct flanges |
|---|---|---|---|---|---|
| Quantity | 1 | 1 | 1 | Large and small 1 each | 1 set |
| Shape |  | | for gas pipe for liquid pipe |  Large  Small | |

| Name | Washer for hanging bracket | Clamp | [Other] |
|---|---|---|---|
| Quantity | 8 | 4 | • Operation manual<br>• Installation manual<br>• Sealing material (35 x 150)<br>• Chains<br>• Screws for chains |
| Shape | | | |

| | |
|---|---|
| FXYB20•25•32KV1 | 6 |
| FXYB40•50KV1 | 8 |
| FXYB63KV1 | 12 |
| FXYB80•100•125KV1 | 16 |

3PA60998-15S-13

## Optional Accessories (For Unit)

| No. | Item | Type | | FXYB20K FXYB25K FXYB32K | FXYB40K FXYB50K | FXYB63K | FXYB80K FXYB100K | FXYB125K |
|---|---|---|---|---|---|---|---|---|
| 1 | Panel related | Access panel | | KTBJ25K36W | KTBJ25K56W | KTBJ25K80W | KTBJ25K160W | |
| 2 | ★1 Auxiliary electric heater | Model | 240V/220V | KEA25K32VE | KEA25K50VE | KEA25K63VE | KEA25K100VE | KEA25K125VE |
| | | Capacity | kW | 0.75 | 1.2 | 1.4 | 2.1 | 2.8 |
| 3 | Air discharge adaptor | | | KDAJ25K36 | KDAJ25K56 | KDAJ25K71 | KDAJ25K140 | |
| 4 | Natural evaporating Pan type humidifier ★1 | | | KNM25K32V1 | KNM25K50V1 | KNM25K63V1 | KNM25K125V1 | |

**Note:**

★1 One adaptor for wiring (KRP1B61) per indoor unit is required if installing an electric heater or a natural evaporating pan type humidifier.

2. Refer to **FXS-L** Series (P263) concerning the detail informations of Optional accessories shown above.

## Optional Accessories (For Controls) Refer to P.484.

# FXM-L
# Ceiling Mounted Duct Type

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6. Capacity Tables ..... 315
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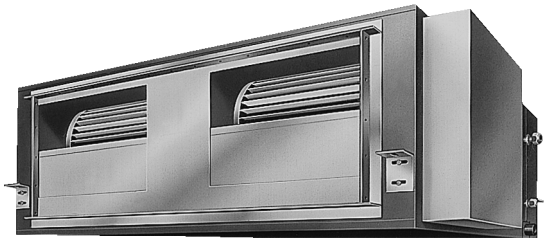
# 1. Features

**Ceiling mounted duct type is newly added to the line-up of the indoor unit for VRV series, which gives you much more flexibility in designing of the air conditioning system to satisfy the needs of individual air-conditioning even in the broad area.**

■ **High external static pressure allows extensive duct work for flexible applications.**

| Ceiling mounted duct type |
|---|
| FXM40L<br>FXM50L<br>FXM63L<br>FXM80L<br>FXM100L<br>FXM125L |



**Wide line-up to increase the flexibility in system designing.**

40~63 type

80~125 type

# 2. Specifications

## Ceiling Mounted Duct Type

| Model | | | FXM40LVE | FXM50LVE | FXM63LVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 4,000 | 5,000 | 6,300 |
| | | Btu/h | 15,900 | 19,900 | 25,000 |
| | | kW | 4.7 | 5.8 | 7.3 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 4.5 | 5.6 | 7.1 |
| ★3 Heating Capacity | | kcal/h | 4,300 | 5,400 | 6,900 |
| | | Btu/h | 17,000 | 21,500 | 27,300 |
| | | kW | 5.0 | 6.3 | 8.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 390×720×690 | 390×720×690 | 390×720×690 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×16×2.0 | 3×16×2.0 | 3×16×2.0 |
| | Face Area | m² | 0.181 | 0.181 | 0.181 |
| Fan | Model | | D11/2D3AB1VE | D11/2D3AB1VE | D11/2D3AA1VE |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 100×1 | 100×1 | 160×1 |
| | Air Flow Rate (H/L) | m³/min | 14/11.5 | 14/11.5 | 19.5/16 |
| | | cfm | 494/406 | 494/406 | 688/565 |
| | External Static Pressure (50 / 60Hz) | Pa | 157/157-118/108 ★4 | 157/157-118/108 ★4 | 157/160-108/98 ★4 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Fiber | Glass Fiber | Glass Fiber |
| Air Filter | | | ★5 | ★5 | ★5 |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) |
| | Drain Pipe | mm | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) | VP25 (External Dia. 32 / Internal Dia. 25) |
| Machine Weight | | kg | 44 | 44 | 45 |
| ★7 Sound Level (H/L) | | dBA | 39/35 | 39/35 | 42/38 |
| Safety Devices | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws. | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws. | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws. |
| Drawing No. | | | 3D034584A | | |

### Notes:

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
★5 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.
6 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★7 Operation sound is measured in an anechoic chamber.
8 Refer to page 325 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

9

## Ceiling Mounted Duct Type

| Model | | | FXM80LVE | FXM100LVE | FXM125LVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 8,000 | 10,000 | 12,500 |
| | | Btu/h | 31,800 | 39,700 | 49,600 |
| | | kW | 9.3 | 11.6 | 14.5 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 9.0 | 11.2 | 14.0 |
| ★3 Heating Capacity | | kcal/h | 8,600 | 10,800 | 13,800 |
| | | Btu/h | 34,100 | 42,700 | 54,600 |
| | | kW | 10.0 | 12.5 | 16.0 |
| Casing | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 390×1,110×690 | 390×1,110×690 | 390×1,110×690 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×16×2.0 | 3×16×2.0 | 3×16×2.0 |
| | Face Area | m² | 0.319 | 0.319 | 0.319 |
| Fan | Model | | 2D11/2D3AG1VE | 2D11/2D3AG1VE | 2D11/2D3AF1VE |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 270×1 | 270×1 | 430×1 |
| | Air Flow Rate (H/L) | m³/min | 29/23 | 29/23 | 36/29 |
| | | cfm | 1,024/812 | 1,024/812 | 1,271/1,024 |
| | External Static Pressure (50 / 60Hz) | Pa | 157/172-98/98 ★4 | 157/172-98/98 ★4 | 191/245-152/172 ★4 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Fiber | Glass Fiber | Glass Fiber |
| Air Filter | | | ★5 | ★5 | ★5 |
| Piping Connections | Liquid Pipes | mm | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ15.9 (Flare Connection) | ϕ19.1 (Flare Connection) | ϕ19.1 (Flare Connection) |
| | Drain Pipe | mm | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) | VP25 (External Dia. 32 Internal Dia. 25) |
| Machine Weight | | kg | 62 | 63 | 65 |
| ★8 Sound Level (H/L) | | dBA | 43/39 | 43/39 | 45/42 |
| Safety Devices | | | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor | Fuse, Thermal Fuse for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series | R22 ; K or M Series R407C ; K or L Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws. | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws. | Operation Manual, Installation Manual, Drain Hose, Clamp Metal, Insulation for Fitting, Sealing Pads, Clamps, Screws. |
| Drawing No. | | | 3D034584A | | |

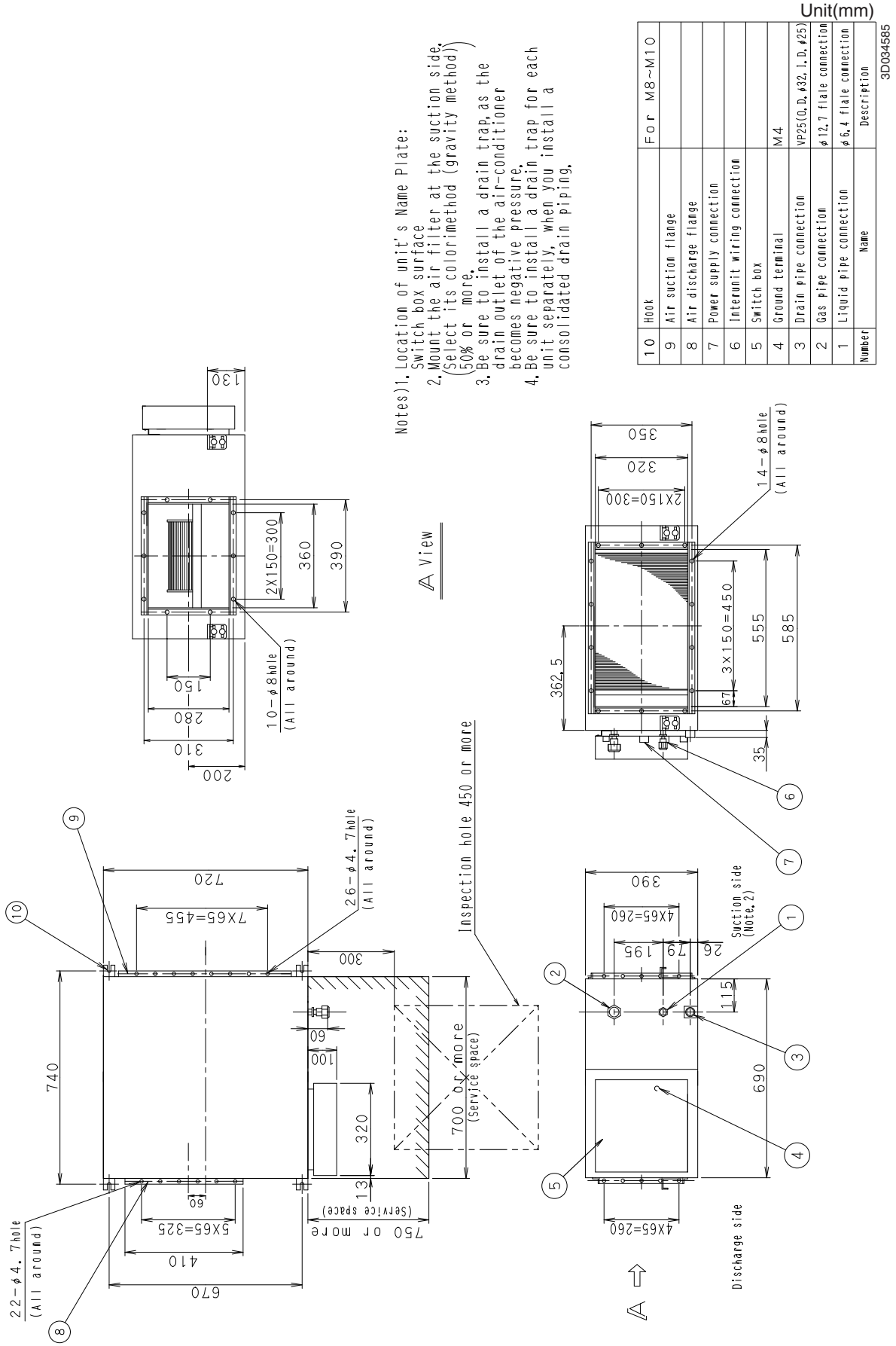
### Notes:

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
★4 Static external pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard".
★5 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.
6 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★7 Operation sound is measured in an anechoic chamber.
8 Refer to page 325 for Fan Motor Input.

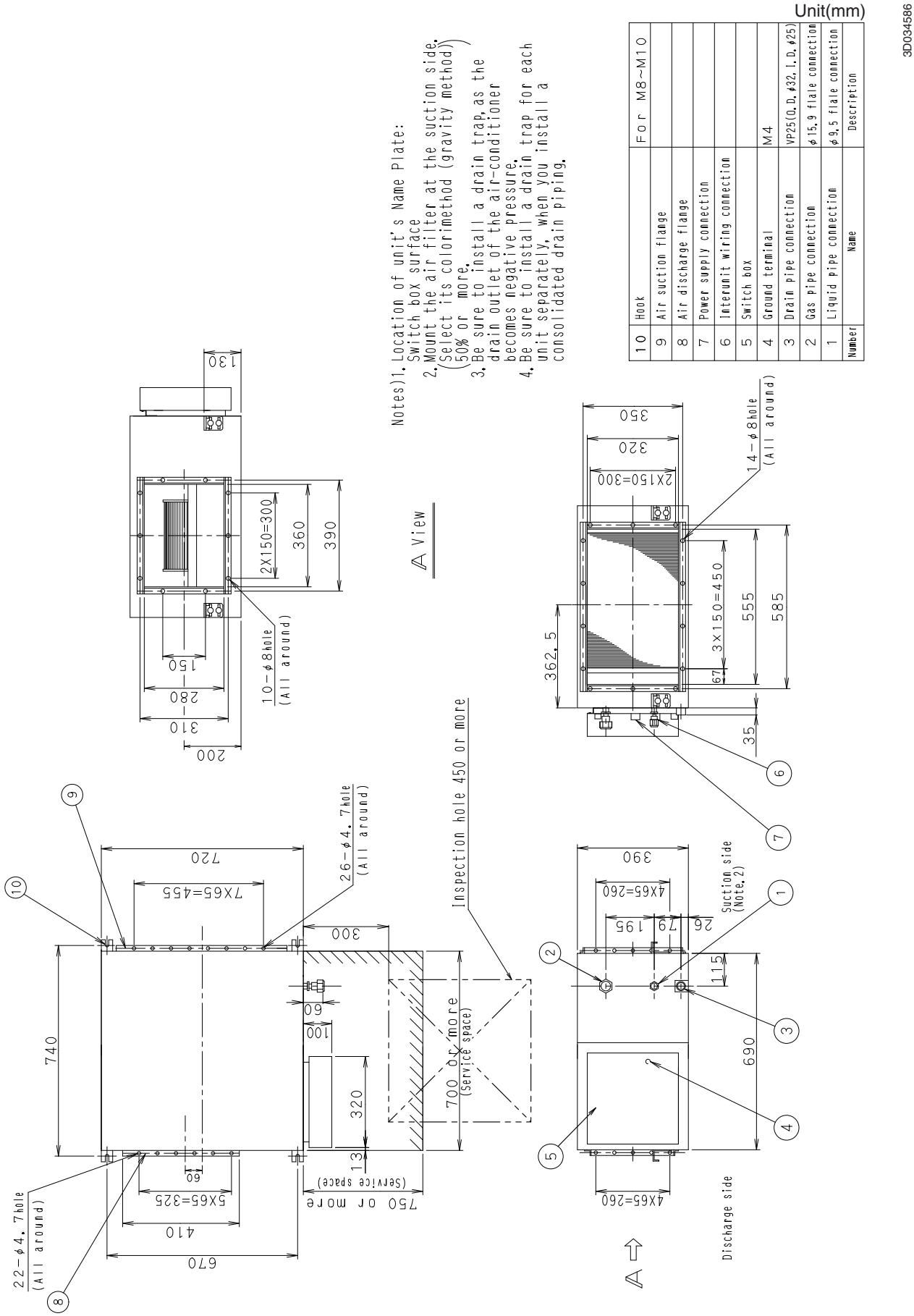
| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

# 3. Dimensions

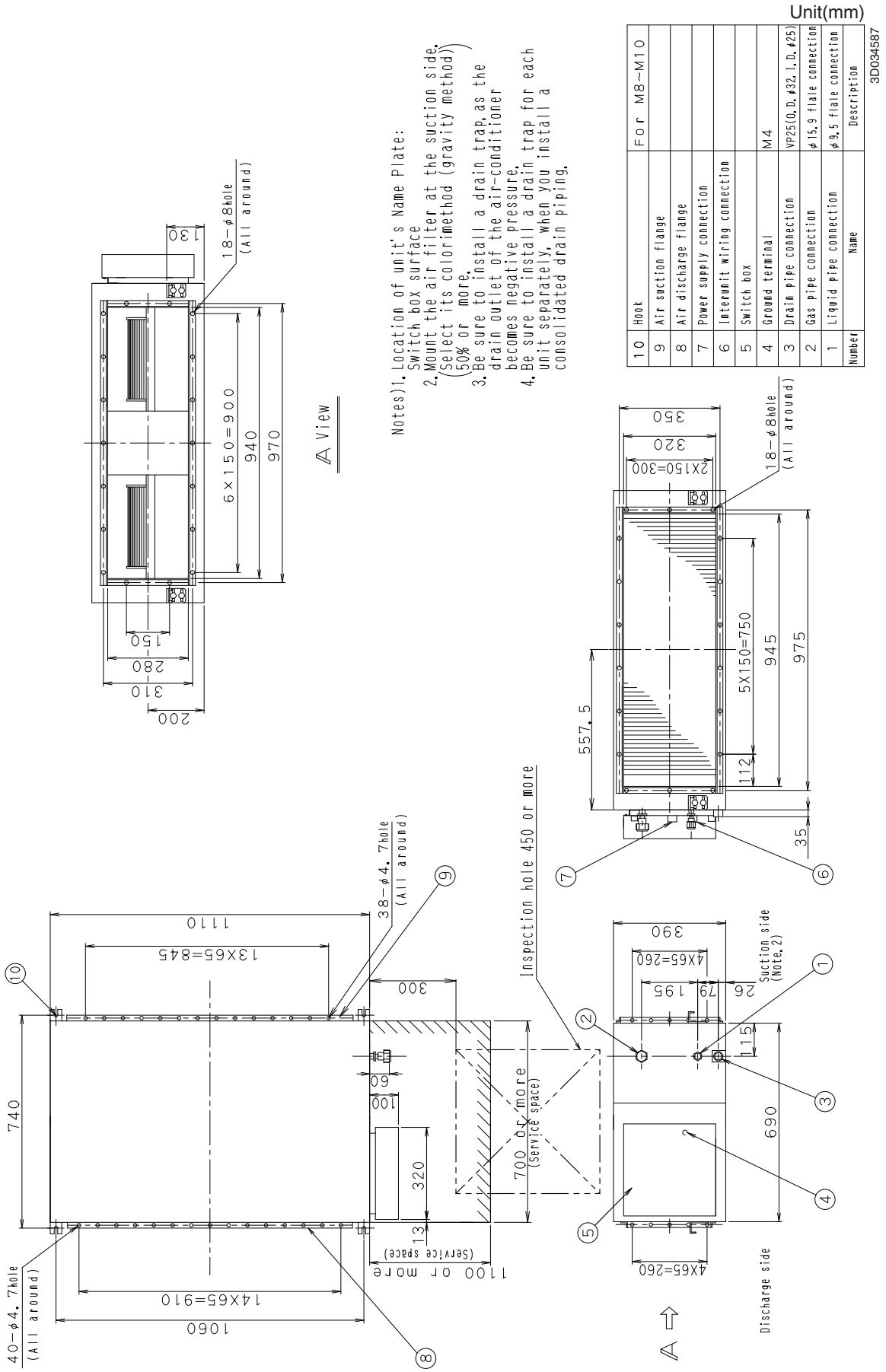
**FXM40L**



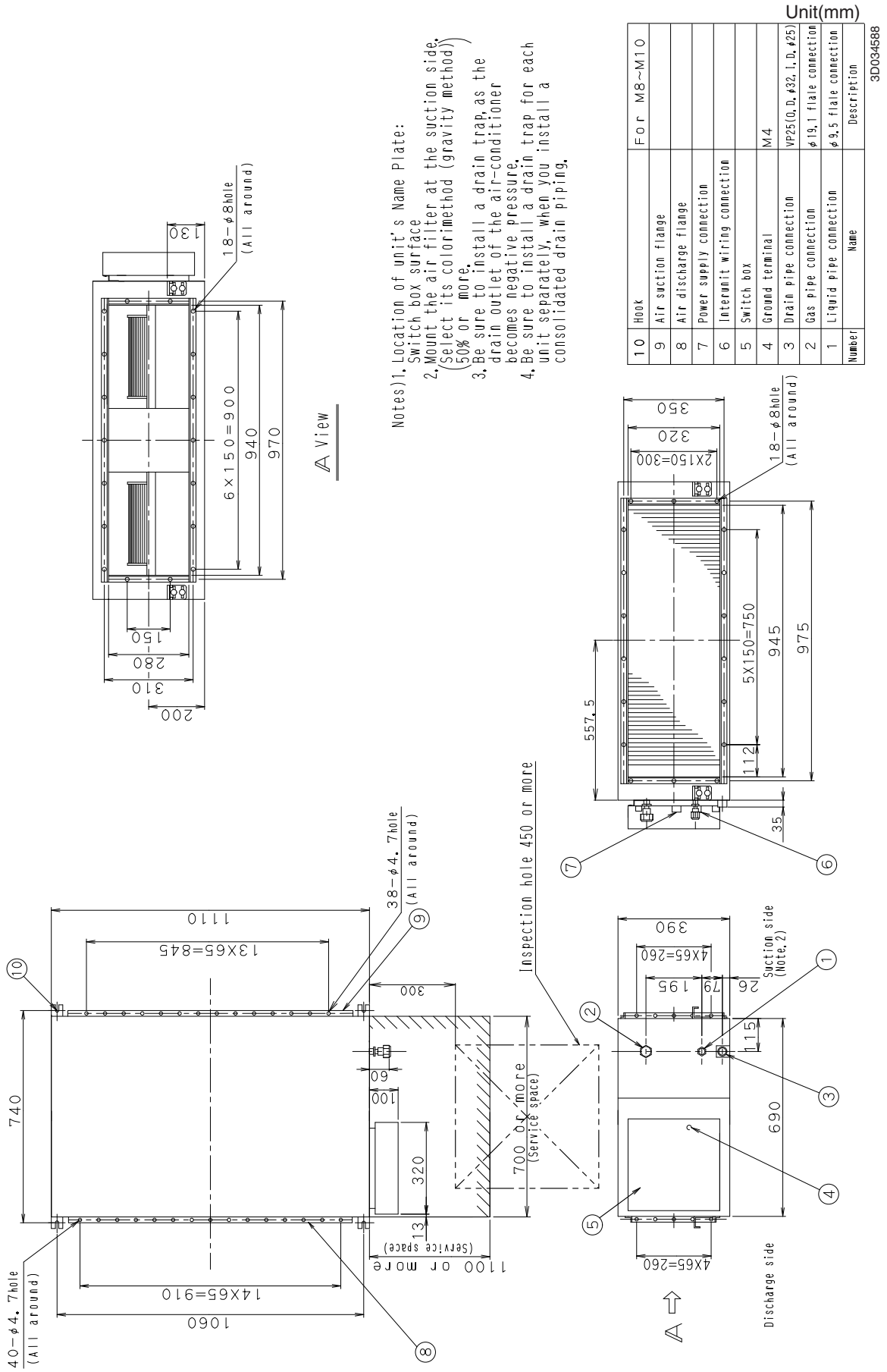
**FXM50L**
**FXM63L**



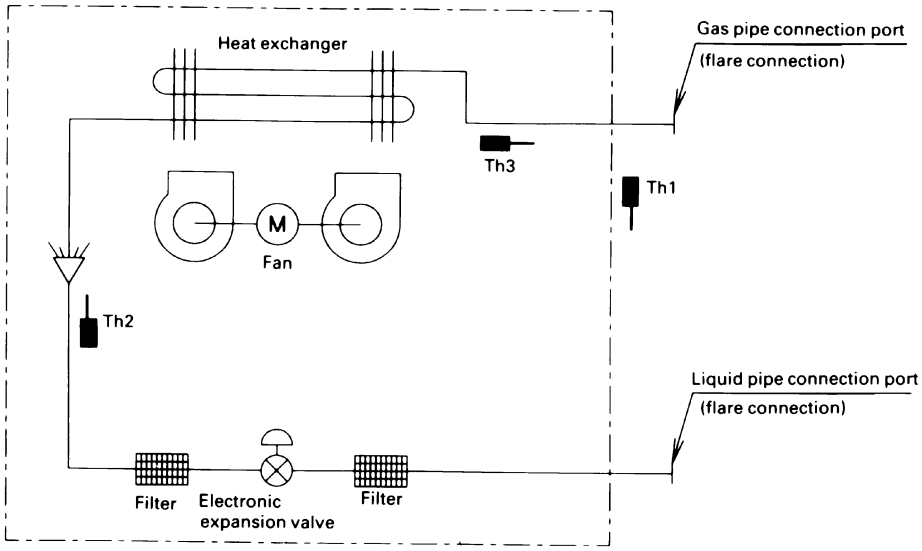
## FXM80L


Unit(mm)
3D034587
Notes)1. Location of unit's Name Plate:
Switch box surface
2. Mount the air filter at the suction side.
(Select its colorimethod (gravity method))
50% or more.
3. Be sure to install a drain trap, as the drain outlet of the air-conditioner becomes negative pressure.
4. Be sure to install a drain trap for each unit separately, when you install a consolidated drain piping.
10 Hook For M8~M10
9 Air suction flange
8 Air discharge flange
7 Power supply connection
6 Interunit wiring connection
5 Switch box
4 Ground terminal M4
3 Drain pipe connection VP25(O.D. ϕ32, I.D. ϕ25)
2 Gas pipe connection ϕ15.9 flale connection
1 Liquid pipe connection ϕ9.5 flale connection
Number Name Description
A View
18-ϕ8hole (All around)
6×150=900
940
970
130
150
280
310
200
350
320
2X150=300
5X150=750
945
975
557.5
112
35
38-ϕ4.7hole (All around)
Inspection hole 450 or more
1110
13X65=845
300
740
60
100
320
700 or more (Service space)
1100 or more (Service space)
13
14X65=910
1060
40-ϕ4.7hole (All around)
390
4X65=260
26
79
195
Suction side (Note.2)
115
690
Discharge side
A

**FXM100L**
**FXM125L**



# 4. Piping Diagrams




Th1: Thermister for suction air temp.
Th2: Thermister for liquid line temp.
Th3: Thermister for gas line temp.

4D034245



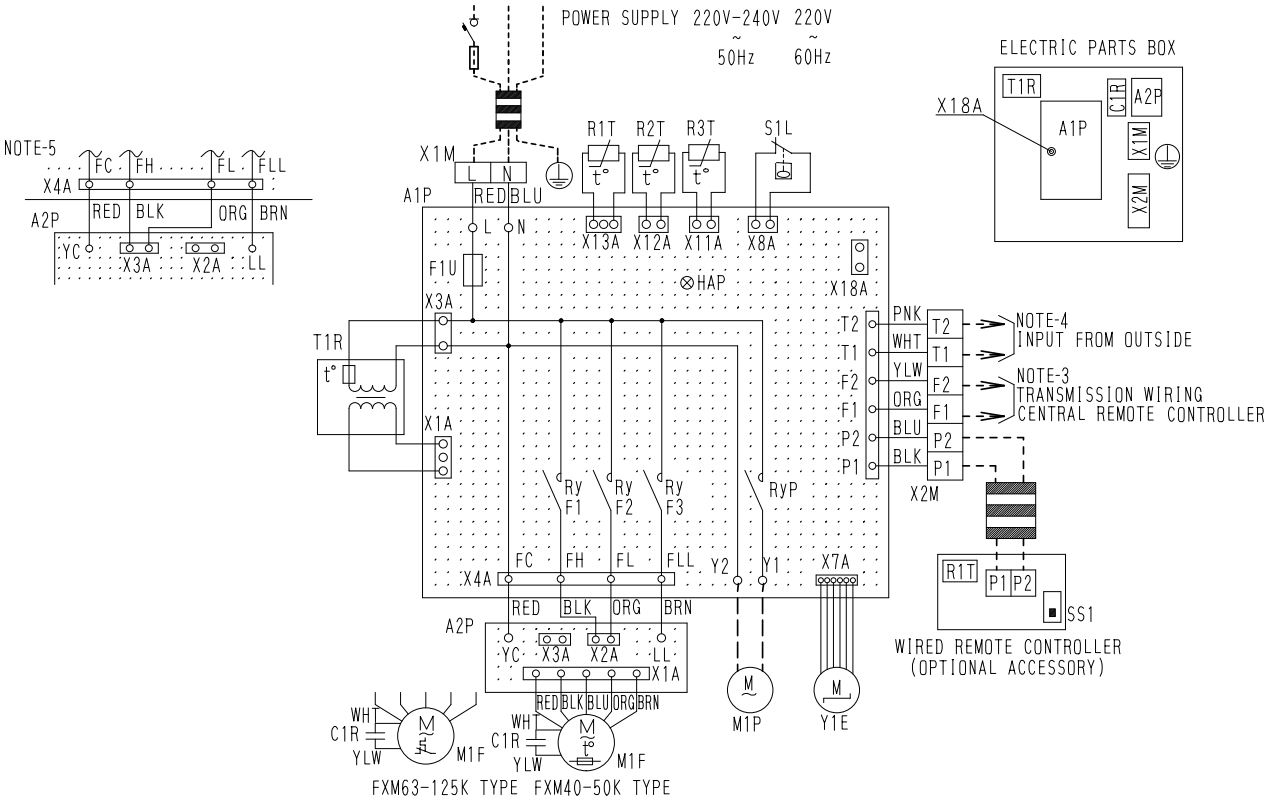
■ **Refrigerant pipe connection port diameters**

(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXM40L | ϕ12.7 | ϕ6.4 |
| FXM50L / 63L / 80L | ϕ15.9 | ϕ9.5 |
| FXM100L / 125L | ϕ19.1 | |

# 5. Wiring Diagrams

### FXM 40L / 50L / 63L / 80L / 100L / 125LVE




| | | | | | |
|---|---|---|---|---|---|
| A1P | PRINTED CIRCUIT BOARD | R2T・3T | THERMISTOR(COIL) | CONNECTOR FOR OPTIONAL PARTS | |
| A2P | TERMINAL BOARD | RyF1-3 | MAGNETIC RELAY(M1F) | X18A | CONNECTOR(WIRING ADAPTOR |
| C1R | CAPACITOR(M1F) | RyP | MAGNETIC RELAY(M1P) | | FOR ELECTORICAL APPENDICES) |
| F1T | THERMAL FUSE(153℃) (M1F BUILT-IN ONLY40・50TYPE)) | S1L | FLOAT SWITCH | | |
| | | T1R | TRANSFORMER(220-240V/22V) | | |
| | | X1M | TERMINAL STRIP(POWER) | | |
| F1U | FUSE(250V,10A,Ⓑ) OR F10T 250V | X2M | TERMINAL STRIP(CONTROL) | | |
| | | Y1E | ELECTRONIC EXPANSION VALVE | | |
| HAP | LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN) | OPTIONAL PARTS | | | |
| | | M1P | MOTOR (DRAIN PUMP) | | |
| M1F | MOTOR(INDOOR FAN) | WIRED REMOTE CONTROLLER | | | |
| Q1F | THERMO SWITCH (M1F BUILT-IN ONLY63-125TYPE) | SS1 | SELECTOR SWITCH (MAIN/SUB) | | |
| | | R1T | THERMISTOR(AIR) | | |
| R1T | THERMISTOR(AIR) | | | | |

NOTES)
1. □□□ :TERMINAL, ○○ , :CONNECTOR, —○— :WIRE CLAMP
2. ---- :FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
5. IN CASE HIGH E.S.P. OPERATION, CHANGE THE WIRING CONNECTION OF X2A AS SHOWN UPPER FIGURE.
6. SYMBOLS SHOW AS FOLLOWS, (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN)
7. USE COPPER CONDUCTORS ONLY.

3D034209A

# 6. Capacity Tables

## 6.1 50Hz

### 6.1.1 Cooling Capacity

**FXM – L**

**[50Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 40 | 10.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 12.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.8 | 3.7 |
| | 14.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.7 | 3.6 |
| | 16.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.6 | 3.6 |
| | 18.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.6 | 3.5 |
| | 20.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.5 | 3.5 |
| | 21.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.5 | 3.5 |
| | 23.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.4 | 3.4 |
| | 25.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.2 | 3.6 | 5.3 | 3.4 |
| | 27.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.1 | 3.5 | 5.2 | 3.4 |
| | 29.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.1 | 3.5 | 5.2 | 3.3 |
| | 31.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.0 | 3.5 | 5.1 | 3.3 |
| | 33.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 4.9 | 3.4 | 5.0 | 3.3 |
| | 35.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.7 | 3.6 | 4.8 | 3.4 | 4.9 | 3.3 |
| | 37.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.7 | 3.5 | 4.8 | 3.4 | 4.9 | 3.3 |
| | 39.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.6 | 4.6 | 3.5 | 4.7 | 3.4 | 4.8 | 3.2 |
| 50 | 10.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 12.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.2 | 4.3 |
| | 14.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.1 | 4.2 |
| | 16.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.0 | 4.2 |
| | 18.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 6.9 | 4.1 |
| | 20.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 6.8 | 4.0 |
| | 21.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 6.8 | 4.0 |
| | 23.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.2 | 6.7 | 4.0 |
| | 25.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.5 | 4.2 | 6.6 | 3.9 |
| | 27.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.4 | 4.1 | 6.5 | 3.9 |
| | 29.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.3 | 4.0 | 6.4 | 3.9 |
| | 31.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.2 | 4.0 | 6.3 | 3.8 |
| | 33.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.1 | 4.0 | 6.2 | 3.8 |
| | 35.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.1 | 6.0 | 4.0 | 6.2 | 3.8 |
| | 37.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.8 | 4.1 | 5.9 | 3.9 | 6.1 | 3.7 |
| | 39.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.7 | 4.0 | 5.8 | 3.9 | 6.0 | 3.7 |
| 63 | 10.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 12.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.1 | 5.4 |
| | 14.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.0 | 5.3 |
| | 16.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 8.9 | 5.2 |
| | 18.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 8.8 | 5.2 |
| | 20.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 8.7 | 5.1 |
| | 21.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 8.6 | 5.1 |
| | 23.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.3 | 5.3 | 8.5 | 5.0 |
| | 25.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.2 | 5.3 | 8.4 | 5.0 |
| | 27.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.1 | 5.2 | 8.3 | 4.9 |
| | 29.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.0 | 5.1 | 8.2 | 4.9 |
| | 31.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 7.9 | 5.1 | 8.0 | 4.8 |
| | 33.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 7.8 | 5.0 | 7.9 | 4.8 |
| | 35.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 7.6 | 5.0 | 7.8 | 4.8 |
| | 37.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.4 | 5.1 | 7.5 | 4.9 | 7.7 | 4.7 |
| | 39.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.2 | 5.1 | 7.4 | 4.9 | 7.6 | 4.7 |
| 80 | 10.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.7 | 7.4 |
| | 12.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.6 | 7.3 |
| | 14.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.4 | 7.2 |
| | 16.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.3 | 7.1 |
| | 18.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.1 | 7.0 |
| | 20.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.0 | 6.9 |
| | 21.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 10.9 | 6.9 |
| | 23.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.6 | 7.2 | 10.8 | 6.8 |
| | 25.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.4 | 7.1 | 10.6 | 6.7 |
| | 27.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.3 | 7.0 | 10.5 | 6.7 |
| | 29.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.1 | 6.9 | 10.3 | 6.6 |
| | 31.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.0 | 6.9 | 10.2 | 6.6 |
| | 33.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 9.8 | 6.8 | 10.0 | 6.5 |
| | 35.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.5 | 7.1 | 9.7 | 6.8 | 9.9 | 6.5 |
| | 37.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.3 | 7.0 | 9.5 | 6.7 | 9.7 | 6.4 |
| | 39.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.2 | 6.9 | 9.4 | 6.6 | 9.6 | 6.4 |

9

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 100 | 10.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.6 | 8.8 |
| | 12.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.4 | 8.6 |
| | 14.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.2 | 8.5 |
| | 16.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.1 | 8.4 |
| | 18.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 13.9 | 8.3 |
| | 20.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 13.7 | 8.2 |
| | 21.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 13.6 | 8.1 |
| | 23.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.2 | 8.5 | 13.4 | 8.0 |
| | 25.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.0 | 8.4 | 13.2 | 7.9 |
| | 27.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 12.8 | 8.3 | 13.0 | 7.9 |
| | 29.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 12.6 | 8.2 | 12.9 | 7.8 |
| | 31.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 12.4 | 8.2 | 12.7 | 7.8 |
| | 33.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 12.2 | 8.2 | 12.5 | 7.7 |
| | 35.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.8 | 8.4 | 12.0 | 8.1 | 12.3 | 7.6 |
| | 37.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.6 | 8.3 | 11.9 | 8.1 | 12.1 | 7.6 |
| | 39.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.4 | 8.3 | 11.7 | 8.0 | 11.9 | 7.5 |
| 125 | 10.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 18.3 | 10.9 |
| | 12.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 18.0 | 10.7 |
| | 14.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 17.8 | 10.6 |
| | 16.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 17.6 | 10.5 |
| | 18.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 17.3 | 10.3 |
| | 20.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 17.1 | 10.2 |
| | 21.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 17.0 | 10.1 |
| | 23.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.4 | 10.6 | 16.8 | 10.0 |
| | 25.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.2 | 10.5 | 16.5 | 9.9 |
| | 27.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.0 | 10.3 | 16.3 | 9.9 |
| | 29.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 15.7 | 10.2 | 16.1 | 9.8 |
| | 31.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 15.5 | 10.1 | 15.8 | 9.7 |
| | 33.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 15.3 | 10.0 | 15.6 | 9.6 |
| | 35.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.7 | 10.4 | 15.1 | 9.9 | 15.4 | 9.6 |
| | 37.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.5 | 10.3 | 14.8 | 9.9 | 15.1 | 9.5 |
| | 39.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.3 | 14.3 | 10.1 | 14.6 | 9.8 | 14.9 | 9.4 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.1.2 Heating Capacity

### FXM-L

**[50Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 40 | -14.7 | -15.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -12.6 | -13.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -10.5 | -11.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -9.5 | -10.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -8.5 | -9.1 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| | -7.0 | -7.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -5.0 | -5.6 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -3.0 | -3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | 0.0 | -0.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 3.0 | 2.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.5 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.7 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| 50 | -14.7 | -15.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -12.6 | -13.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | -10.5 | -11.0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| | -9.5 | -10.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| | -8.5 | -9.1 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | -7.0 | -7.6 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -5.0 | -5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -3.0 | -3.7 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | 0.0 | -0.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 3.0 | 2.2 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.1 | 6.1 | 6.1 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 6.9 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.1 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 80 | -14.7 | -15.0 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| | -12.6 | -13.0 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | -10.5 | -11.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| | -9.5 | -10.0 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| | -8.5 | -9.1 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| | -7.0 | -7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 |
| | -5.0 | -5.6 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| | -3.0 | -3.7 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 |
| | 0.0 | -0.7 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.4 |
| | 3.0 | 2.2 | 9.3 | 9.3 | 9.3 | 9.3 | 9.2 | 8.4 |
| | 5.0 | 4.1 | 9.6 | 9.6 | 9.6 | 9.6 | 9.2 | 8.4 |
| | 7.0 | 6.0 | 10.0 | 10.0 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 9.0 | 7.9 | 10.3 | 10.3 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 11.0 | 9.8 | 10.6 | 10.6 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 13.0 | 11.8 | 11.0 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 15.0 | 13.7 | 11.3 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |

## [50Hz]

**Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 100 | -14.7 | -15.0 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| | -12.6 | -13.0 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| | -10.5 | -11.0 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| | -9.5 | -10.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| | -8.5 | -9.1 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 |
| | -7.0 | -7.6 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| | -5.0 | -5.6 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| | -3.0 | -3.7 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| | 0.0 | -0.7 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 10.5 |
| | 3.0 | 2.2 | 11.7 | 11.7 | 11.7 | 11.7 | 11.5 | 10.5 |
| | 5.0 | 4.1 | 12.1 | 12.1 | 12.1 | 12.0 | 11.5 | 10.5 |
| | 7.0 | 6.0 | 12.5 | 12.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 9.0 | 7.9 | 12.9 | 12.9 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 11.0 | 9.8 | 13.3 | 13.3 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 13.0 | 11.8 | 13.8 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 15.0 | 13.7 | 14.2 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| 125 | -14.7 | -15.0 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| | -12.6 | -13.0 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 |
| | -10.5 | -11.0 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| | -9.5 | -10.0 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 |
| | -8.5 | -9.1 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | -7.0 | -7.6 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| | -5.0 | -5.6 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| | -3.0 | -3.7 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |
| | 0.0 | -0.7 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 13.5 |
| | 3.0 | 2.2 | 14.9 | 14.9 | 14.9 | 14.9 | 14.7 | 13.5 |
| | 5.0 | 4.1 | 15.4 | 15.4 | 15.4 | 15.3 | 14.7 | 13.5 |
| | 7.0 | 6.0 | 16.0 | 16.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 9.0 | 7.9 | 16.5 | 16.5 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 11.0 | 9.8 | 17.0 | 17.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 13.0 | 11.8 | 17.5 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 15.0 | 13.7 | 18.1 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

## 6.2 60Hz

### 6.2.1 Cooling Capacity

**FXM – L**

**[60Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 40 | 10.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 12.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 14.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 16.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 18.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 20.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 21.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.9 | 3.7 |
| | 23.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.8 | 3.7 |
| | 25.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.7 | 3.7 |
| | 27.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.7 | 3.6 |
| | 29.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.6 | 3.6 |
| | 31.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.5 | 3.6 |
| | 33.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.4 | 3.6 |
| | 35.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.2 | 3.7 | 5.4 | 3.5 |
| | 37.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.5 | 4.8 | 3.6 | 5.2 | 3.7 | 5.3 | 3.5 |
| | 39.0 | 3.1 | 2.9 | 3.7 | 3.2 | 4.2 | 3.5 | 4.5 | 3.6 | 4.8 | 3.7 | 5.1 | 3.6 | 5.2 | 3.5 |
| 50 | 10.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 12.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 14.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 16.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 18.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 20.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 21.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 23.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.3 | 4.3 |
| | 25.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.2 | 4.3 |
| | 27.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.1 | 4.2 |
| | 29.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 7.0 | 4.2 |
| | 31.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 6.9 | 4.1 |
| | 33.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.6 | 4.3 | 6.8 | 4.1 |
| | 35.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.5 | 4.3 | 6.7 | 4.1 |
| | 37.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.4 | 4.2 | 6.6 | 4.0 |
| | 39.0 | 3.9 | 3.3 | 4.6 | 3.6 | 5.3 | 4.0 | 5.6 | 4.1 | 5.9 | 4.2 | 6.3 | 4.2 | 6.5 | 4.0 |
| 63 | 10.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 12.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 14.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 16.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 18.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 20.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 21.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.3 | 5.5 |
| | 23.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.2 | 5.4 |
| | 25.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 9.1 | 5.4 |
| | 27.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 8.9 | 5.3 |
| | 29.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 8.8 | 5.3 |
| | 31.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.4 | 8.7 | 5.2 |
| | 33.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.2 | 8.4 | 5.5 | 8.6 | 5.2 |
| | 35.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.3 | 5.4 | 8.4 | 5.1 |
| | 37.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.1 | 7.5 | 5.3 | 8.1 | 5.4 | 8.3 | 5.1 |
| | 39.0 | 4.9 | 4.3 | 5.8 | 4.7 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.0 | 5.3 | 8.2 | 5.1 |
| 80 | 10.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.8 | 7.4 |
| | 12.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.8 | 7.4 |
| | 14.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.8 | 7.4 |
| | 16.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.8 | 7.4 |
| | 18.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.8 | 7.4 |
| | 20.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.8 | 7.4 |
| | 21.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.8 | 7.4 |
| | 23.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.7 | 7.3 |
| | 25.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.5 | 7.3 |
| | 27.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.3 | 7.2 |
| | 29.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.2 | 7.2 |
| | 31.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.3 | 11.0 | 7.1 |
| | 33.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.6 | 7.4 | 10.9 | 7.0 |
| | 35.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.5 | 7.3 | 10.7 | 7.0 |
| | 37.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.1 | 10.3 | 7.2 | 10.5 | 6.9 |
| | 39.0 | 6.2 | 5.8 | 7.3 | 6.3 | 8.4 | 6.8 | 9.0 | 7.0 | 9.6 | 7.2 | 10.2 | 7.2 | 10.4 | 6.9 |

## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 100 | 10.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.7 | 8.8 |
| | 12.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.7 | 8.8 |
| | 14.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.7 | 8.8 |
| | 16.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.7 | 8.8 |
| | 18.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.7 | 8.8 |
| | 20.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.7 | 8.8 |
| | 21.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.7 | 8.8 |
| | 23.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.5 | 8.7 |
| | 25.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.3 | 8.6 |
| | 27.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.6 | 14.1 | 8.5 |
| | 29.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.7 | 13.9 | 8.5 |
| | 31.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.3 | 8.8 | 13.7 | 8.4 |
| | 33.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.4 | 13.2 | 8.8 | 13.5 | 8.4 |
| | 35.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.5 | 13.0 | 8.7 | 13.3 | 8.3 |
| | 37.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.6 | 12.8 | 8.7 | 13.1 | 8.2 |
| | 39.0 | 7.7 | 6.9 | 9.1 | 7.5 | 10.5 | 8.3 | 11.2 | 8.3 | 11.9 | 8.6 | 12.6 | 8.7 | 12.9 | 8.2 |
| 125 | 10.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 18.3 | 10.9 |
| | 12.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 18.3 | 10.9 |
| | 14.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 18.3 | 10.9 |
| | 16.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 18.3 | 10.9 |
| | 18.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 18.3 | 10.9 |
| | 20.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 18.3 | 10.9 |
| | 21.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 18.3 | 10.9 |
| | 23.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 18.1 | 10.8 |
| | 25.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 17.9 | 10.7 |
| | 27.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.7 | 17.6 | 10.7 |
| | 29.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.8 | 17.4 | 10.6 |
| | 31.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.6 | 10.8 | 17.1 | 10.5 |
| | 33.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.4 | 16.5 | 10.8 | 16.9 | 10.4 |
| | 35.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.5 | 16.3 | 10.7 | 16.6 | 10.4 |
| | 37.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.2 | 14.9 | 10.5 | 16.0 | 10.7 | 16.4 | 10.3 |
| | 39.0 | 9.7 | 8.4 | 11.4 | 9.2 | 13.1 | 10.1 | 14.0 | 10.3 | 14.9 | 10.6 | 15.8 | 10.6 | 16.1 | 10.2 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2.2 Heating Capacity

### FXM-L

**[60Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 40 | -14.7 | -15.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -12.6 | -13.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -10.5 | -11.0 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| | -9.5 | -10.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -8.5 | -9.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -7.0 | -7.6 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| | -5.0 | -5.6 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| | -3.0 | -3.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 0.0 | -0.7 | 4.8 | 4.8 | 4.8 | 4.8 | 4.6 | 4.2 |
| | 3.0 | 2.2 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.6 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| 50 | -14.7 | -15.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | -12.6 | -13.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | -10.5 | -11.0 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -9.5 | -10.0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| | -8.5 | -9.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -7.0 | -7.6 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | -5.0 | -5.6 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.3 |
| | -3.0 | -3.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 0.0 | -0.7 | 6.0 | 6.0 | 6.0 | 6.0 | 5.8 | 5.3 |
| | 3.0 | 2.2 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 7.0 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 7.2 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | -12.6 | -13.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -10.5 | -11.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | -9.5 | -10.0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -8.5 | -9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -7.0 | -7.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| | -5.0 | -5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | -3.0 | -3.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.8 |
| | 0.0 | -0.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.4 | 6.8 |
| | 3.0 | 2.2 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.9 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 9.2 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 80 | -14.7 | -15.0 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| | -12.6 | -13.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| | -10.5 | -11.0 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| | -9.5 | -10.0 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 |
| | -8.5 | -9.1 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| | -7.0 | -7.6 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| | -5.0 | -5.6 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.4 |
| | -3.0 | -3.7 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.4 |
| | 0.0 | -0.7 | 9.4 | 9.4 | 9.4 | 9.4 | 9.2 | 8.4 |
| | 3.0 | 2.2 | 10.0 | 10.0 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 5.0 | 4.1 | 10.3 | 10.3 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 7.0 | 6.0 | 10.7 | 10.7 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 9.0 | 7.9 | 11.1 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 11.0 | 9.8 | 11.4 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 13.0 | 11.8 | 11.6 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |
| | 15.0 | 13.7 | 11.6 | 10.8 | 10.0 | 9.6 | 9.2 | 8.4 |

## [60Hz]

**Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 100 | -14.7 | -15.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| | -12.6 | -13.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| | -10.5 | -11.0 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 |
| | -9.5 | -10.0 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 |
| | -8.5 | -9.1 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| | -7.0 | -7.6 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| | -5.0 | -5.6 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.5 |
| | -3.0 | -3.7 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 10.5 |
| | 0.0 | -0.7 | 11.8 | 11.8 | 11.8 | 11.8 | 11.5 | 10.5 |
| | 3.0 | 2.2 | 12.5 | 12.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 5.0 | 4.1 | 13.0 | 13.0 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 7.0 | 6.0 | 13.4 | 13.4 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 9.0 | 7.9 | 13.8 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 11.0 | 9.8 | 14.3 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 13.0 | 11.8 | 14.5 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 15.0 | 13.7 | 14.5 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| 125 | -14.7 | -15.0 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| | -12.6 | -13.0 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 |
| | -10.5 | -11.0 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| | -9.5 | -10.0 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 |
| | -8.5 | -9.1 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 |
| | -7.0 | -7.6 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 | 13.1 |
| | -5.0 | -5.6 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.5 |
| | -3.0 | -3.7 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 13.5 |
| | 0.0 | -0.7 | 15.1 | 15.1 | 15.1 | 15.1 | 14.7 | 13.5 |
| | 3.0 | 2.2 | 16.0 | 16.0 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 5.0 | 4.1 | 16.5 | 16.5 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 7.0 | 6.0 | 17.1 | 17.1 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 9.0 | 7.9 | 17.6 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 11.0 | 9.8 | 18.2 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 13.0 | 11.8 | 18.4 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |
| | 15.0 | 13.7 | 18.4 | 17.2 | 16.0 | 15.3 | 14.7 | 13.5 |

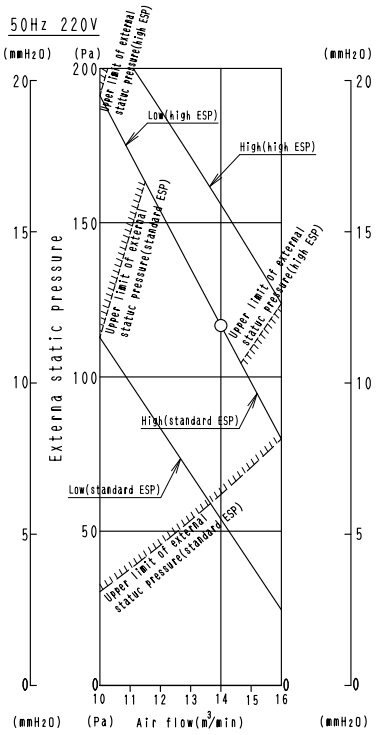
TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

# 7. Fan Performances

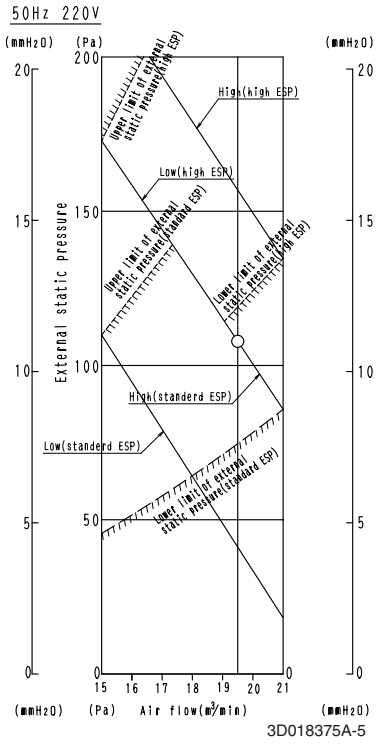
## 7.1 50Hz

**FXM40L·50L**



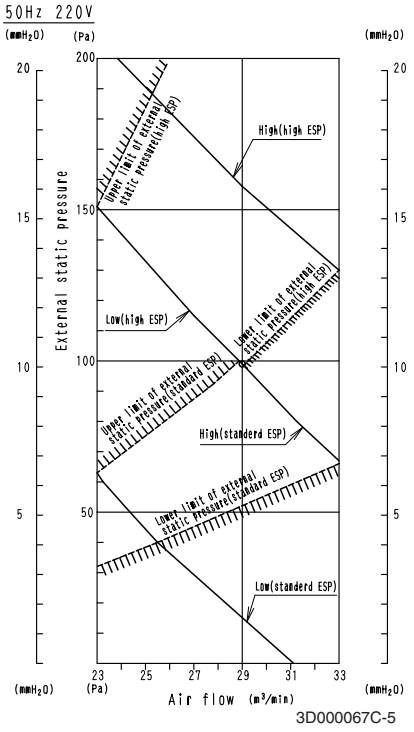

3D019610A-5

**FXM63L**



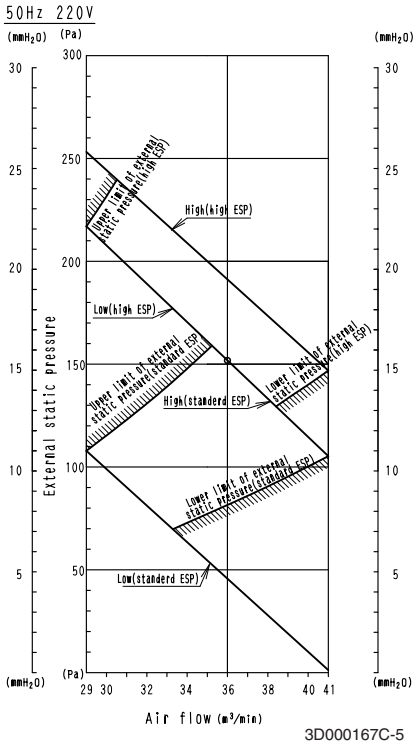

3D018375A-5

**FXM80L·100L**




3D000067C-5

**FXM125L**




3D000167C-5

**Note:**

1. The remote controller can be used to switch between “high” and “low”.
2. The air flow is set to “standard” before leaving the factory. It is possible to switch between “standard ESP” and “high ESP” by changing the terminals switch in the indoor unit electrical box.

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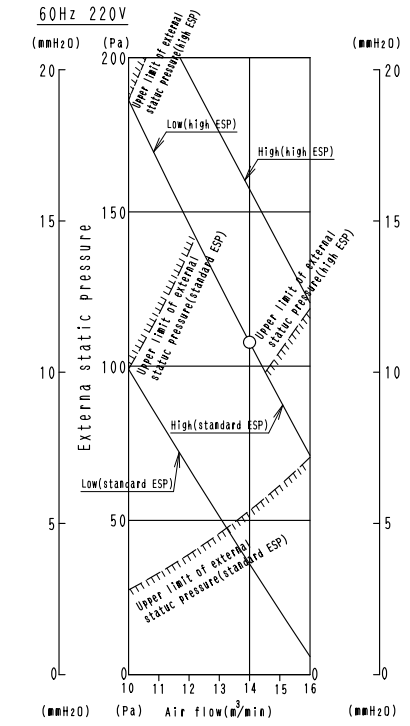
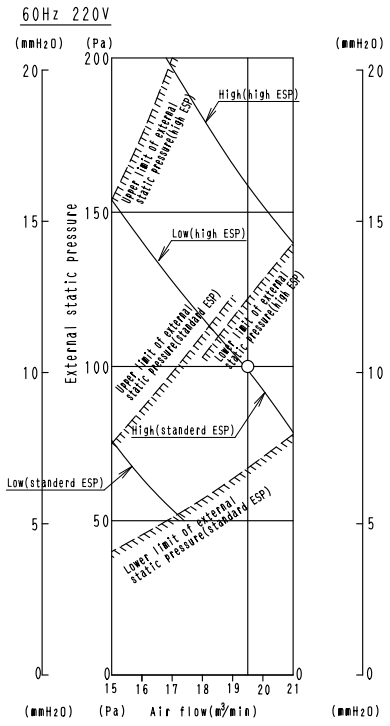
## 7.2 60Hz

**FXM40L·50L**



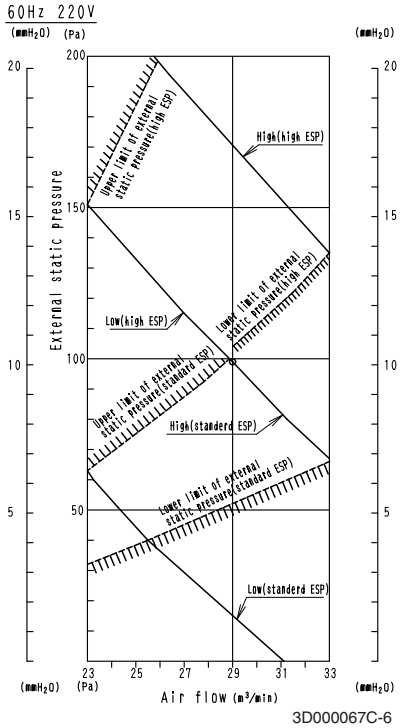

3D019610A-6

**FXM63L**



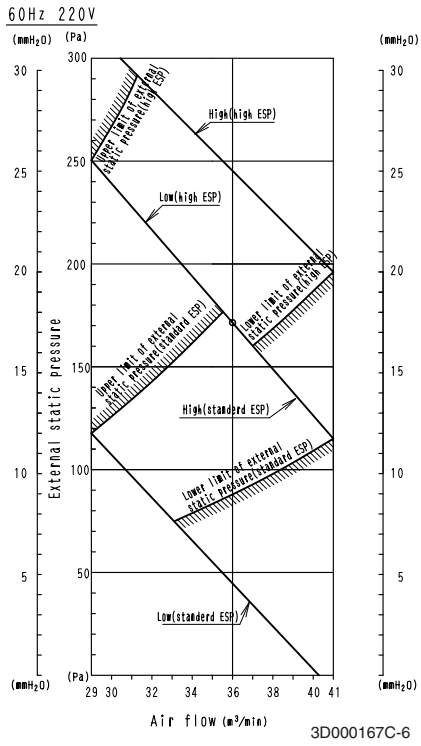

3D018375A-6

**FXM80L·100L**




3D000067C-6

**FXM125L**




3D000167C-6

**Note:**

1. The remote controller can be used to switch between “high” and “low”.
2. The air flow is set to “standard” before leaving the factory. It is possible to switch between “standard ESP” and “high ESP” by changing the terminals switch in the indoor unit electrical box.

# 8. Electric Characteristics

| Units | | | | | Power supply | | IFM | | Input(W) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Type | Hz | Volts | Voltage range | MCA | MFA | KW | FLA | Cooling | Heating |
| FXM40・50L | VE | 50 | 220-240 | MAX. 264 Min. 198 | 1.3 | 15 | 0.100 | 1.0 | 211 | 211 |
| FXM63L | | | | | 1.5 | 15 | 0.160 | 1.2 | 284 | 284 |
| FXM80・100L | | | | | 2.5 | 15 | 0.270 | 2.0 | 411 | 411 |
| FXM125L | | | | | 3.8 | 15 | 0.430 | 3.0 | 619 | 619 |
| FXM40・50L | VE | 60 | 220 | MAX. 242 Min. 198 | 1.4 | 15 | 0.100 | 1.1 | 225 | 225 |
| FXM63L | | | | | 1.6 | 15 | 0.160 | 1.3 | 307 | 307 |
| FXM80・100L | | | | | 3.0 | 15 | 0.270 | 2.4 | 451 | 451 |
| FXM125L | | | | | 4.4 | 15 | 0.430 | 3.5 | 745 | 745 |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
KW : Fan Motor Rated Output(KW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range

   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

   MCA = 1.25 X FLA

   MFA ≦ 4 X FLA
   (Next lower standard fuse rating. Min. 15A)

4. Select wire size based on the MCA.

5. Instead of fuse, use Circuit Breaker.

4D034592

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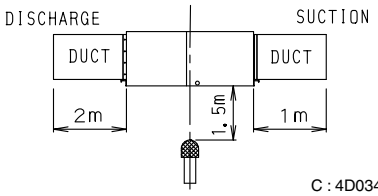
# 9. Sound Levels

## Overall

■ **Ceiling Mounted Duct Type**




dBA

| Model | 220V 50/60Hz | | 240V 50/60Hz | |
|---|---|---|---|---|
| | H | L | H | L |
| FXM40L<br>FXM50L | 39 | 35 | 41 | 37 |
| FXM63L | 42 | 38 | 44 | 40 |
| FXM80L<br>FXM100L | 43 | 39 | 45 | 41 |
| FXM125L | 45 | 42 | 47 | 44 |

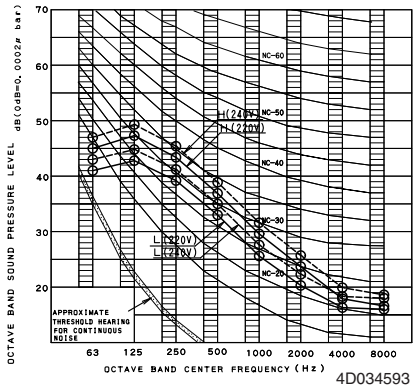
**Notes:**

1. The operating conditions are assumed to be standard (JIS conditions)
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

## Octave Band Level

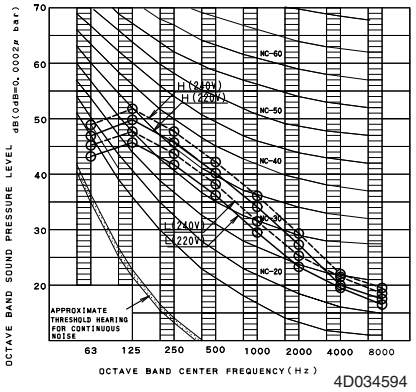
○——○ 220V
○ - - - -○ 240V

**FXM40L·50LVE**



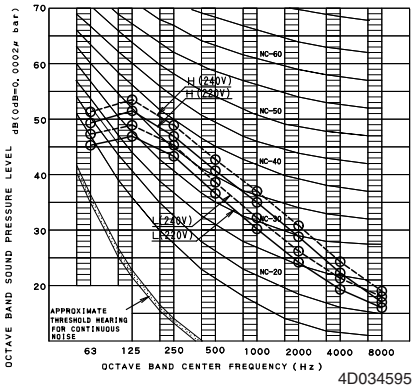

4D034593

**FXM63LVE**



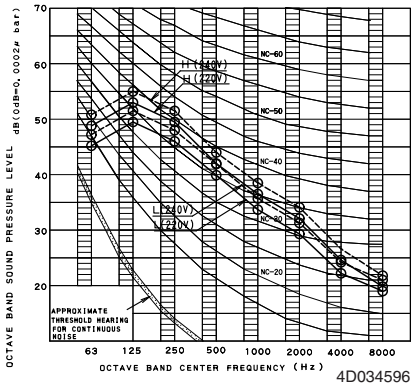

4D034594

**FXM80L·100LVE**




4D034595

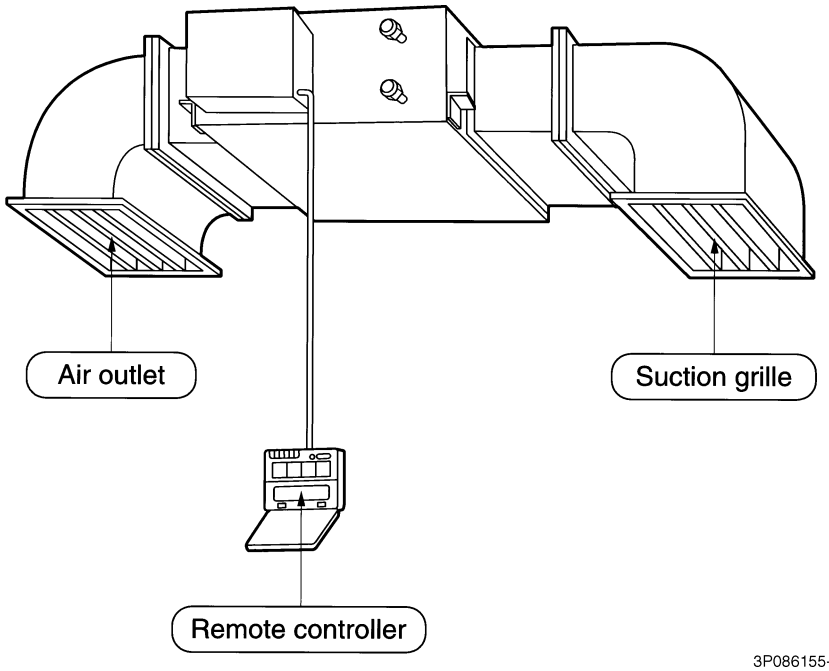
**FXM125LVE**




4D034596

# 10. Installation

## Installation Example

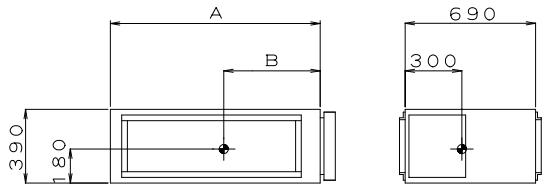



3P086155-2

## Center of Gravity

### FXM40~125L

Unit (mm)




| | A | B |
|---|---|---|
| FXM40・50・63LVE | 720 | 290 |
| FXM80・100・125LVE | 1110 | 510 |

4D034591

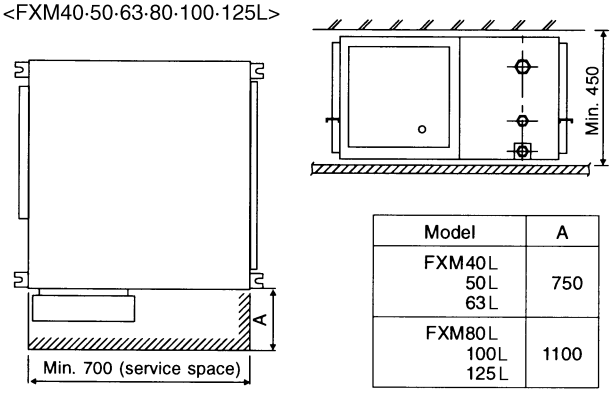
## Service Space

(1) Select an installation site where the following conditions are fulfilled and that meets with your customer's approval.

- If supporting structural members are not strong enough to take the unit's weight, the unit could fall out of place and cause serious injury.
- Where sufficient clearance for maintenance and service can be ensured. (Refer to Fig. 1)
- Where optimum air distribution can be ensured.
- Where nothing blocks the air passage.
- Where condensate can be properly drained.
- Where piping between indoor and outdoor units is possible within the allowable limit (Refer to the installation manual of the outdoor unit.)
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1 m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)

**(2) Check whether the place is strong enough to bear the weight of the unit or not. If there is a risk, reinforce the place before installing the unit.**

<FXM40·50·63·80·100·125L>




| Model | A |
|---|---|
| FXM40L<br>50L<br>63L | 750 |
| FXM80L<br>100L<br>125L | 1100 |

Fig. 1

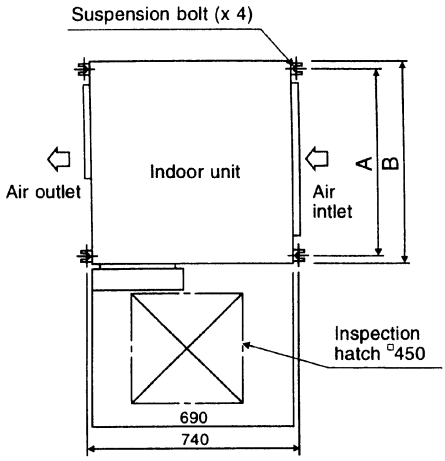
3P086156-2-4

**Note:**
Above figure means minimum value. Please keep these value at least.

## Bolt Pitch

(1) Relative positions of indoor unit and suspension bolt (Refer to Fig. 2)

<FXM40·50·63·80·100·125L>




| Model | A | B |
|---|---|---|
| FXM40L<br>50L<br>63L | 670 | 720 |
| FXM80L<br>100L<br>125L | 1060 | 1100 |

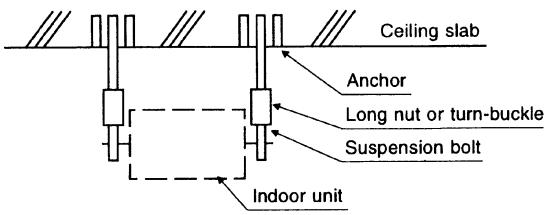
Fig. 2

(2) Install a canvass duct to the air discharge outlet and air inlet so that vibration from the machine body isn't transmitted to the duct or ceiling. You should also apply acoustic (insulation material) to the inside of the duct, and vibration insulation rubber to the suspension bolts.

(3) Install suspension bolts.
(Use bolts of 10 mm diameter.)

- Install the equipment where supporting structures are strong enough to bear the equipment's weight. Use embedded inserts or anchor bolts with new buildings and hole-in-anchors with old buildings.

〈 Installation example 〉




Note) All the above parts are part to be procured in the field.

3P086156-2-5

9

## Drain Piping Work

**〈〈 Rig the drain pipe as shown below and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings. 〉〉**

**<<Insulate the drain hose inside the buildings>>**

(1) Install the drain pipes.

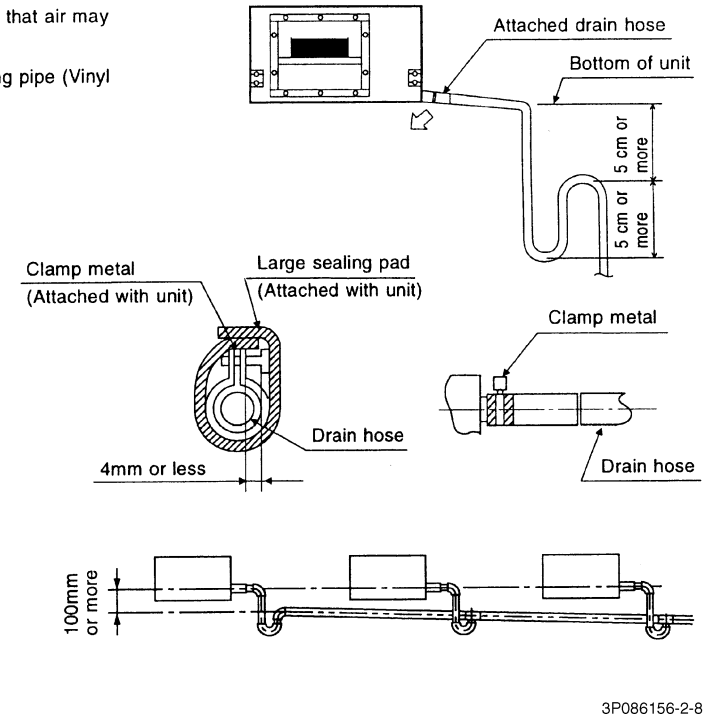
**FXM40-125L**

- Keep piping as short as possible and slope it downwards so that air may not remaine trapped inside the pipe.
- Keep pipe size equal to or greater than that of the connecting pipe (Vinyl pipe of 25 mm nominal diam. and 32 mm outer diam.).
- Use the attached drain hose and clamp.
  Tighten the clamp firmly.
- Insulate the clamp metal with the attached sealing pad.

- **There is negative pressure inside the unit relative to atmospheric pressure when the unit is running, so be sure to provide drain frap on the drain outlet. (See the figure)**
- **In order to prevent foreign matter from building up inside the piping, you should avoid curves as much as possible, and arrange so the trap can be cleaned.**

NOTE)

- If installing central drain piping, install according to the following right figure.
  (Install a drain trap for each indoor unit.)




(2) After piping work is finished, check drainage flows smoothly.

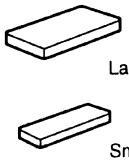
3P086156-2-8

# 11. Accessories

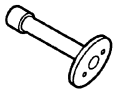
## Standard Accessories

### FXM40L~250L

<FXM40·50·63·80·100·125L>

| Name | Clamp metal | Drain hose | Insulation for fitting | Sealing pad | Clamp | Screws for duct flanges | [Other] |
|---|---|---|---|---|---|---|---|
| Quantity | 1 pc. | 1 pc. | 1 pc. | Large and small 1 each | 6 pcs. | As described in table below | • Operation manual<br>• Installation manual<br>• Washers (8 pcs.) |
| Shape | | | |  | | <br>FXM40·50·63L: 16<br>FXM80·100·125L: 28 | |

<FXM200·250L>

| Name | Attached piping (1) | [Other] |
|---|---|---|
| Quantity | 1 set | • Operation manual<br>• Installation manual<br>• Screws for flange connection (M5) (48 pcs.)<br>• Insulation material (for hanger) (2 pcs.)<br>• Washers (8 pcs.)<br>• Clamps (2 pcs.)<br>• Hexagon head bolt for pipe frange (M10) (2pcs.)<br>• Spring washer for pipe frange (M10) (2pcs.) |
| Shape |  | |

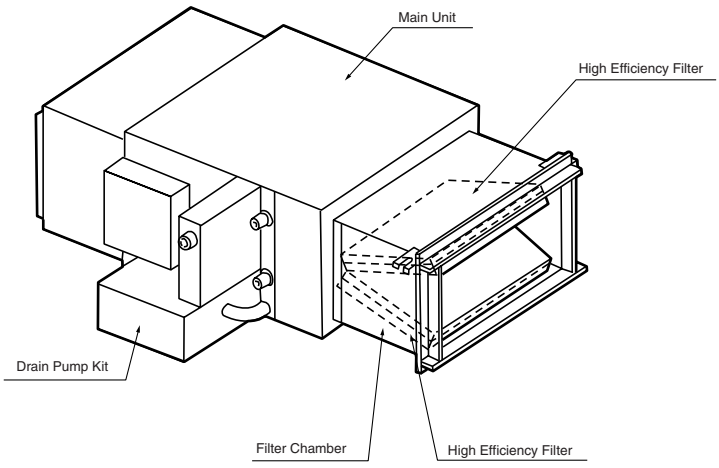
3P086156-2-3

## Optional Accessories (For Unit)

| Item \ Type | | FXM40L | FXM50L | FXM63L | FXM80L | FXM100L | FXM125L |
|---|---|---|---|---|---|---|---|
| Drain pump kit | | KDU-30L125VE | | | | | |
| High efficiency filter | 65% | KAFJ302L71 | | | KAFJ302L140 | | |
| | 90% | KAFJ303L71 | | | KAFJ303L140 | | |
| Filter chamber | | KDDJ30L71 | | | KDDJ30L140 | | |
| Long life replacement filter | | KAFJ301L71 | | | KAFJ301L140 | | |

3D034598

## Optional Accessories (For Controls) Refer to P.484.




(V0680)

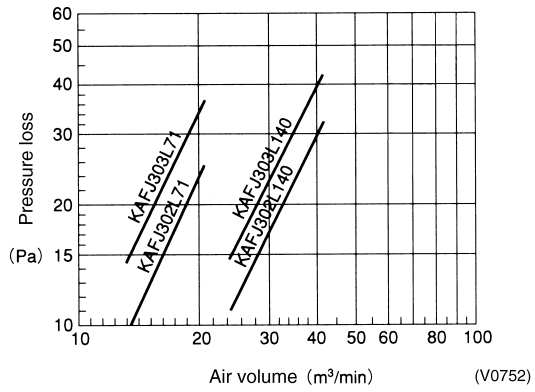
## High Efficiency Filter

### Specification

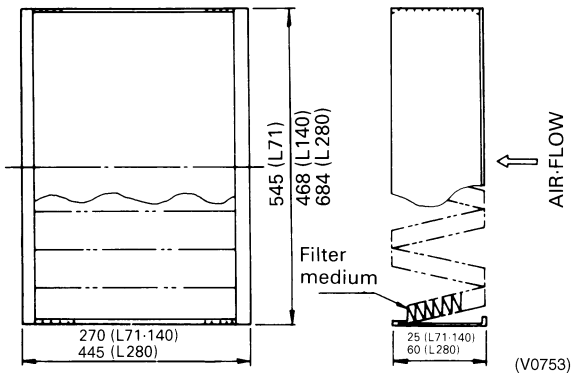
| Model | 65% type | | | | 90% type | | | |
|---|---|---|---|---|---|---|---|---|
| Items | KAFJ302L71 | | KAFJ302L140 | | KAFJ303L71 | | KAFJ303L140 | |
| Filter Chamber | KDDJ30L71 | | KDDJ30L140 | | KDDJ30L71 | | KDDJ30L140 | |
| Dimension (W×D×T) (mm) | 545×270×25 | | 468×270×25 | | 545×270×25 | | 468×270×25 | |
| Average Dust Collection Efficiency (%) | Colorimetric method 65% | | | | Colorimetric method 90% | | | |
| Initial Pressure Loss (Pa) | 11 | 18 | 16 | 24 | 17 | 27 | 21 | 32 |
| Final Pressure Loss (Pa) | 98 | | | | 98 | | | |
| Filter | Non-woven fabric of synthetic fiber | | | | Non-woven fabric of synthetic fiber | | | |
| Life Time (h) | 2500 hours (dust density 0.15mg/m³) | | | | 1800 hours (dust density 0.15mg/m³) | | | |
| Seats Structured | 2 | | 4 | | 2 | | 4 | |
| Applicable Models | 40 Class | 50·63 Class | 80·100 Class | 125 Class | 40 Class | 50·63 Class | 80·100 Class | 125 Class |

**Note:**
The filter chamber is separately required when the high efficiency filter will be installed.

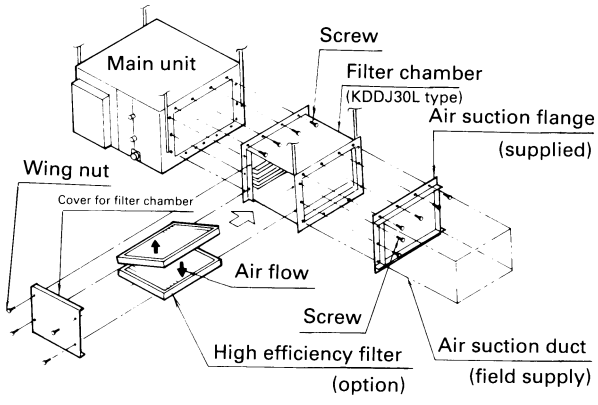
### Characteristics of filter




### Dimensions of filter




### Installation



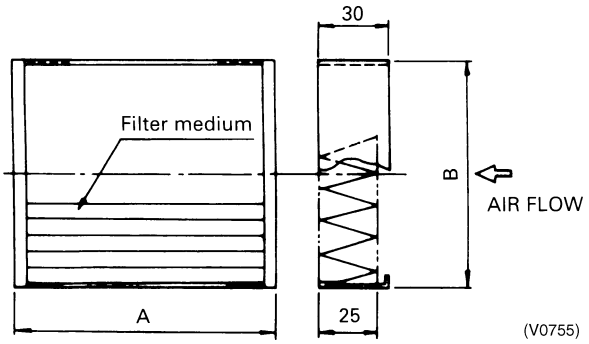

- Meet the airflow direction and arrow mark putting on the High efficiency filter.
- It is impossible to be built in with the air cleaning unit together.

## Long Life Replacement Filter

### Specifications

| Item \ Model | | KAFJ301L71 | KAFJ301L140 |
|---|---|---|---|
| Filter Chamber for Bottom Suction | | KDDJ30L71 | KDDJ30L140 |
| Dimensions (W×D×T) mm | | 547×252×30 | 419×252×30<br>519×252×30 |
| Average Efficiency (%) | | 50% (Gravity method) | |
| Pressure Loss (Pa) | Initial | 9.8 (1mm$H_2O$) | |
| | Final | 49 (5mm$H_2O$) | |
| Material | | Mildew Proof Resin Net | |
| Number Required per Unit | | 1 | 2 (each 1) |
| Life Time (h) | | 2,500 h<br>(dust particle concentration at 0.15mg/m³) | |
| Applicable Model | | 40·50·63 Class | 80·100·125 Class |

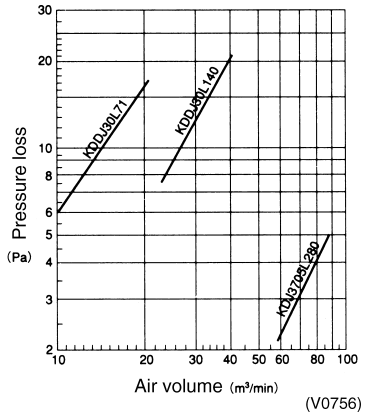
### Dimensions




| Model | A×B | Quantity |
|---|---|---|
| KAFJ301L71 | 252×549 | 2 |
| | — | |
| KAFJ301L140 | 252×419 | 4 (each 2 filters) |
| | 252×519 | |

**Note:**
The filter chamber is required when the long life filter will be installed.

### Characteristics of filter




9

## Drain Pump Kit

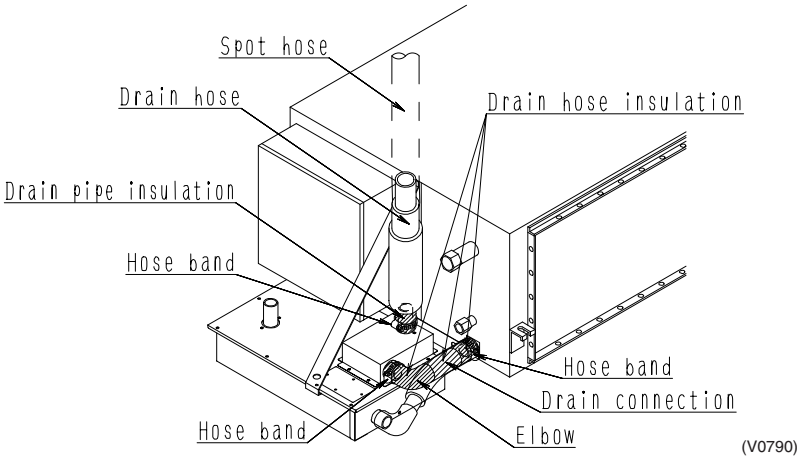
### Specification

| Items \ Model | KDU-30L125VE |
|---|---|
| Power Supply | Single phase 220-240V/220V 50/60Hz |
| Power Consumption (W) | 19/17 (50/60Hz) |
| Drain-up Lift (mm) | Standard drain outlet of the unit +294 |
| Drain Outlet | VP25<br>(Internal diameter ϕ25, external diameter ϕ32) |
| Safety Device | Float switch |
| Weight (kg) | 9 |
| Applied Models | 40·50·63·80·100·125 Class |

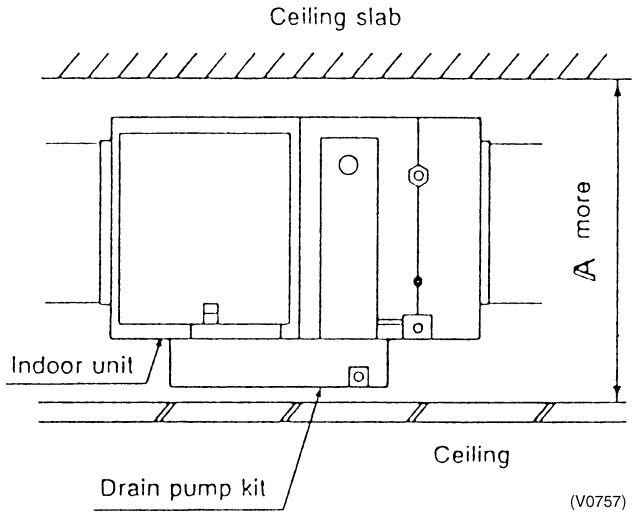
### Precaution at use

1. When this kit will be used with the natural evaporation pan type humidifier together, the piping of unit's drain and humidifier's drain can be used in common.
2. Be sure to do test run (cooling) to make sure the drain flows out.
3. Prohibit providing a drain trap when the drain pump kit will be mounted.

### Installation



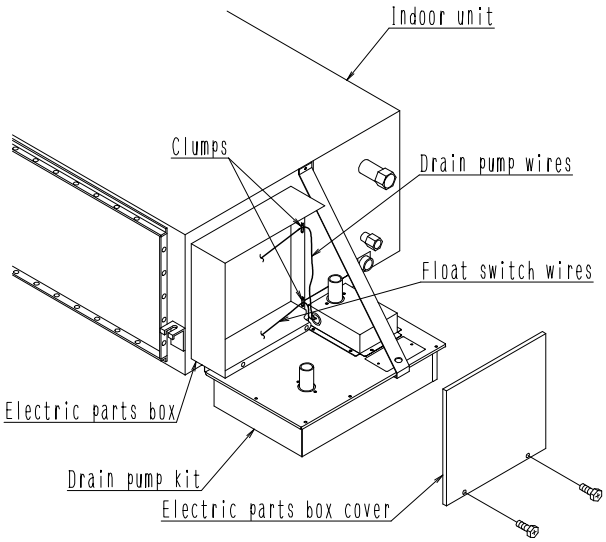

Notes) 1.Connect the drain connection hose from the elbow of the connection hose to the drain pump box. Connect the attached drain hose to the outlet of the drain pump.
2.Keep the drain hose sloping downwards.

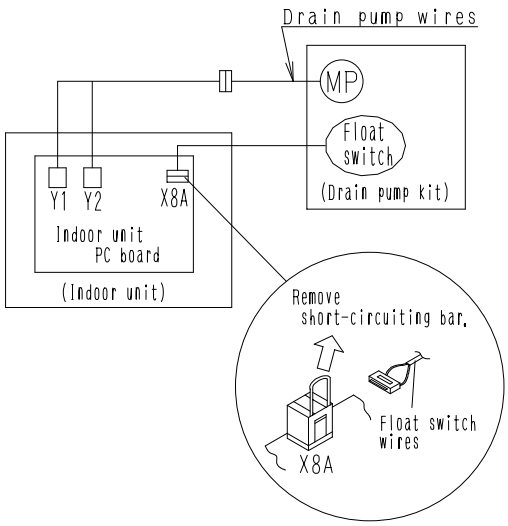



| | A |
|---|---|
| KDU-30L125VE | 520mm |

**Internal Wiring Method**

■ **KDU-30L125VE**



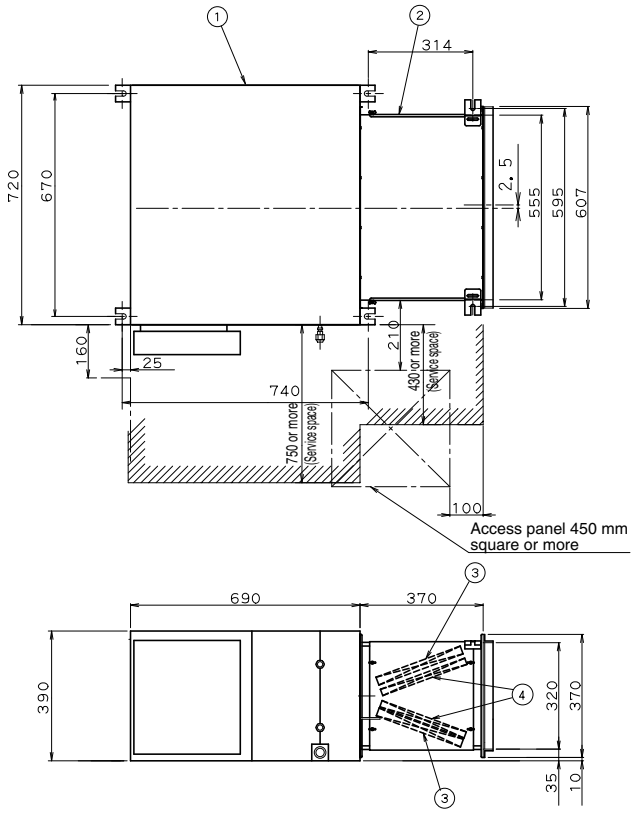




9

## Dimensions with the Optional Accessories

### High efficiency filter (Long life filter)

■ **FXM40L~63L**

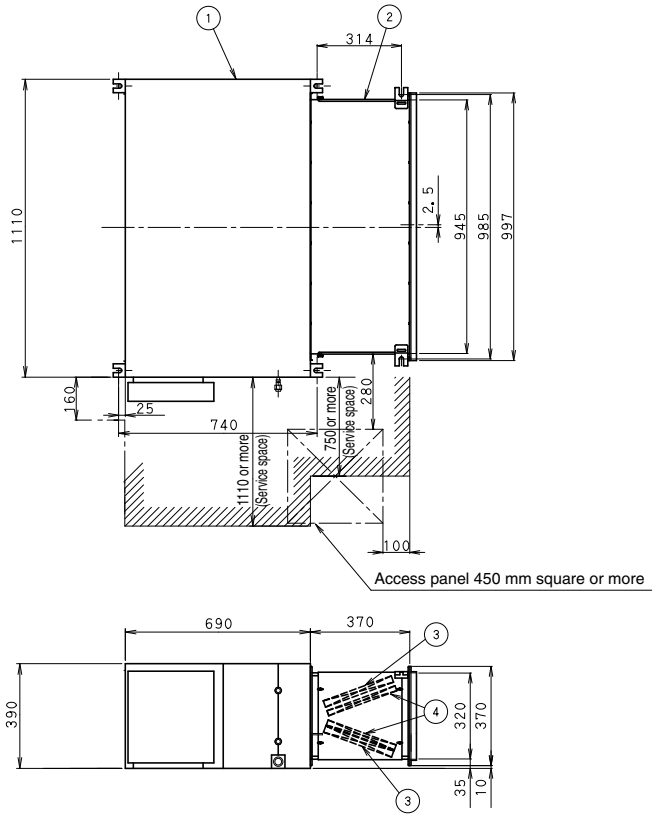



Note)
1. Be sure to provide an air filter in the suction air duct (with dust collection efficiency by more than 50% in the weight method.)
2. Be sure to install a drain trap in the drain piping because the outlet of drain will fall to negative pressure.
3. when a central drain system will be applied, each indoor unit should have a drain trap individually.

| Number | Name | Description |
|---|---|---|
| 4 | Long life filter | |
| 3 | High efficiency filter | |
| 2 | Filter chamber | |
| 1 | Ceiling mounted duct type 's body | |

JC : DU824-202K

■ **FXM80L~125L**




Note)
1. Be sure to provide an air filter in the suction air duct (with dust collection efficiency by more than 50% in the weight method.)
2. Be sure to install a drain trap in the drain piping because the outlet of drain will fall to negative pressure.
3. when a central drain system will be applied, each indoor unit should have a drain trap individually.

| Number | Name | Description |
|---|---|---|
| 4 | Long life filter | |
| 3 | High efficiency filter | |
| 2 | Filter chamber | |
| 1 | Ceiling mounted duct type 's body | |

JC : DU827-244K

# FXH-L
# Ceiling Suspended Type

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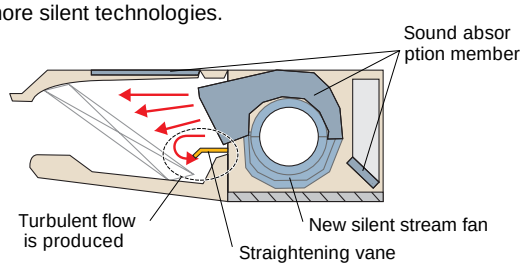
# 1. Features

**FXH32L/FXH63L/FXH100L**

## Slim body with quieter and wider air flow

●Adoption of newly designed SILENT STREAM FAN

Uses the new silent stream fan and many more silent technologies.



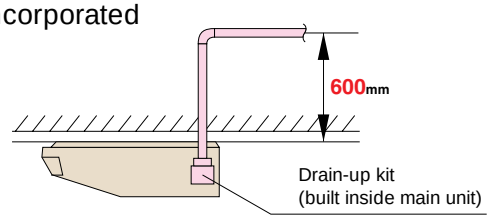

●Low operating sound

(dB(A))

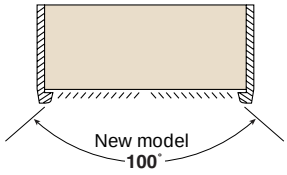
| Class | 32 | 63 | 100 |
|---|---|---|---|
| Operating sound (H/L) | 36/31 | 39/34 | 45/37 |

●Installation is easy

- Drain-up kit (optional) can be easily incorporated



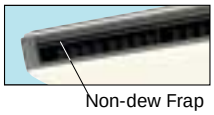

●Wide air discharge openings produce a spreading 100˚ air flow



●Maintenance is easy

- New Non-dew Frap with no implanted

Bristle-free Frap minimizes contamination and makes cleaning simpler.




- Easy to clean flat design
- Maintenance is easier because everything can be performed from below the unit
- A long-life filter (maintenance free up to one year) is equipped as standard

# 2. Specifications

## Ceiling Suspended Type

| Model | | | FXH32LVE | FXH63LVE | FXH100LVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 3,150 | 6,300 | 10,000 |
| | | Btu/h | 12,500 | 25,000 | 39,700 |
| | | kW | 3.7 | 7.3 | 11.6 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 3.6 | 7.1 | 11.2 |
| ★3 Heating Capacity | | kcal/h | 3,400 | 6,900 | 10,800 |
| | | Btu/h | 13,600 | 27,300 | 42,700 |
| | | kW | 4.0 | 8.0 | 12.5 |
| Casing Color | | | White (10Y9/0.5) | White (10Y9/0.5) | White (10Y9/0.5) |
| Dimensions: (H×W×D) | | mm | 195×960×680 | 195×1,160×680 | 195×1,400×680 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 2×12×1.75 | 3×12×1.75 | 3×12×1.75 |
| | Face Area | m² | 0.182 | 0.233 | 0.293 |
| Fan | Model | | 3D12K1AA1 | 4D12K1AA1 | 3D12K2AA1 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 62×1 | 62×1 | 130×1 |
| | Air Flow Rate (H/L) | m³/min | 12/10 | 17.5/14 | 25/19.5 |
| | | cfm | 424/353 | 618/494 | 883/688 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Wool | Glass Wool | Glass Wool |
| Air Filter | | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ19.1 (Flare Connection) |
| | Drain Pipe | mm | VP20 (External Dia. 26 Internal Dia. 20) | VP20 (External Dia. 26 Internal Dia. 20) | VP20 (External Dia. 26 Internal Dia. 20) |
| Machine Weight | | kg | 24 | 28 | 33 |
| ★5 Sound Level (H/L) | | dBA | 36/31 | 39/34 | 45/37 |
| Safety Devices | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22 ; K or M Series, R407C ; K or L Series | R22 ; K or M Series, R407C ; K or L Series | R22 ; K or M Series, R407C ; K or L Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Clamps, Washers, Flare Nut. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Clamps, Washers. | Operation Manual, Installation Manual, Paper Pattern for Installation, Drain Hose, Clamp Metal, Insulation for Fitting, Clamps, Washers. |
| Drawing No. | | | 3D035297 | | |

### Notes:

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 350 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

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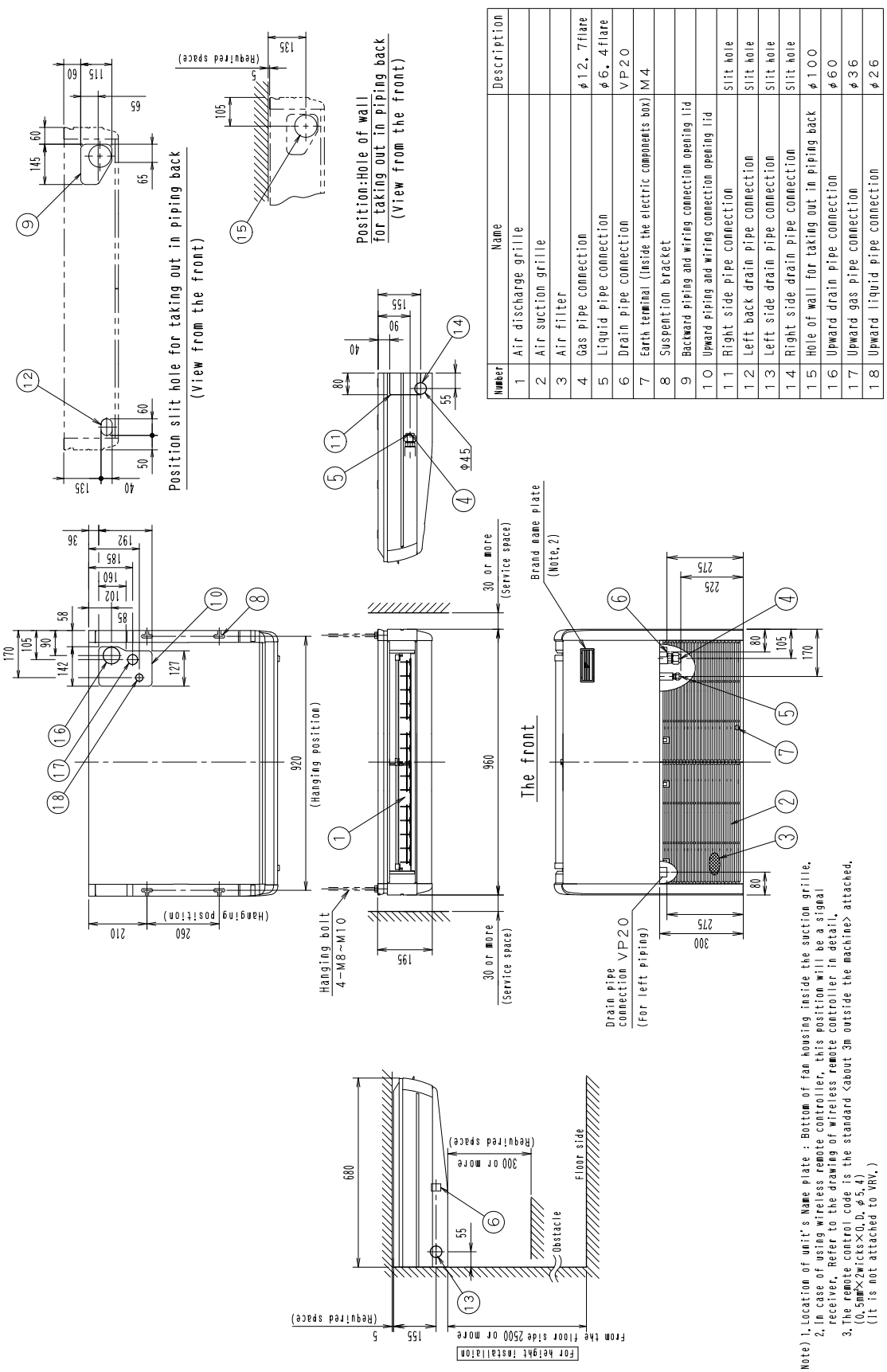
# 3. Dimensions

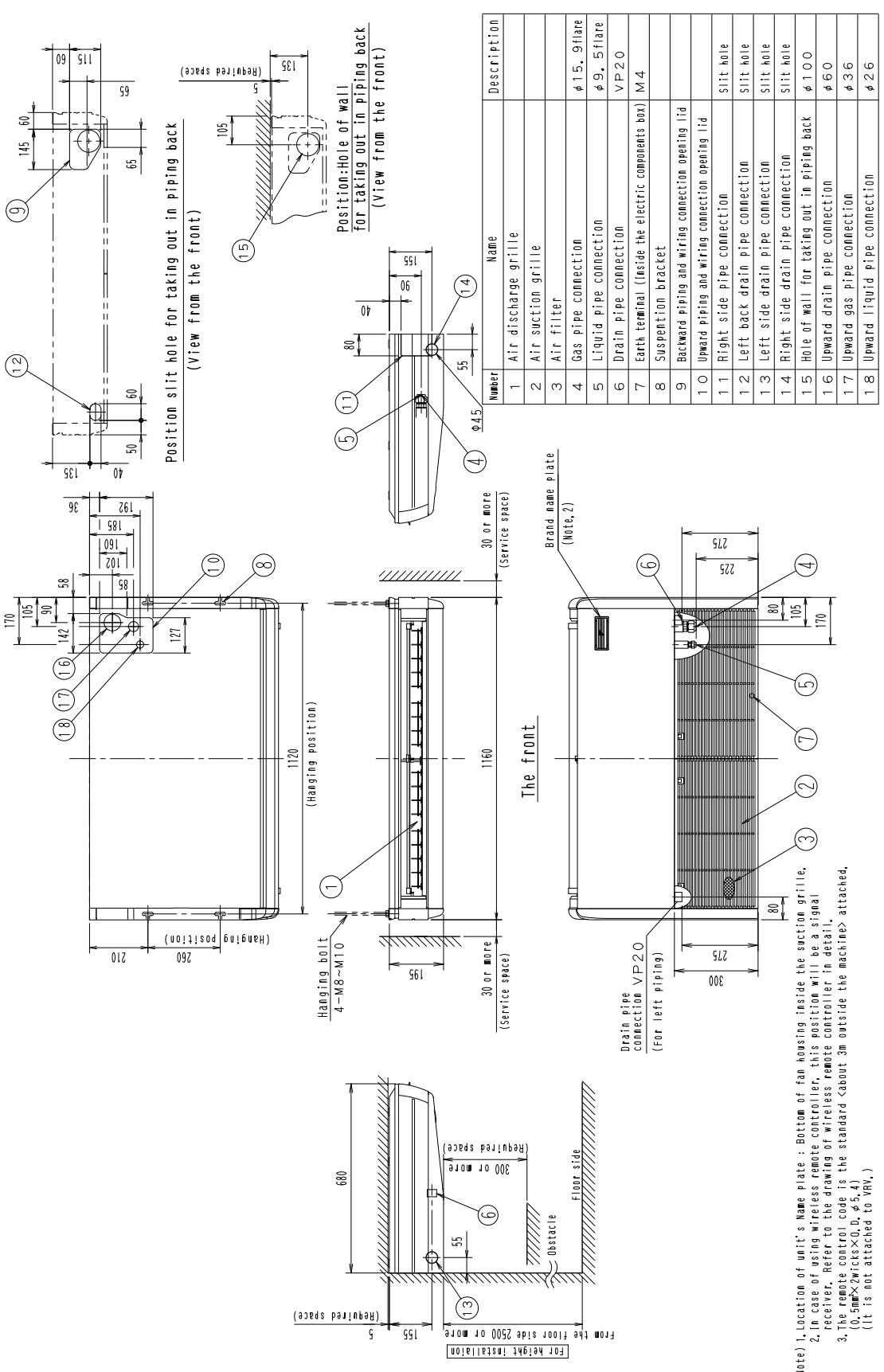
## FXH32LVE




| Number | Name | Description |
|---|---|---|
| 1 | Air discharge grille | |
| 2 | Air suction grille | |
| 3 | Air filter | |
| 4 | Gas pipe connection | φ12.7flare |
| 5 | Liquid pipe connection | φ6.4flare |
| 6 | Drain pipe connection | VP20 |
| 7 | Earth terminal (inside the electric components box) | M4 |
| 8 | Suspention bracket | |
| 9 | Backward piping and wiring connection opening lid | |
| 10 | Upward piping and wiring connection opening lid | |
| 11 | Right side pipe connection | Slit hole |
| 12 | Left back drain pipe connection | Slit hole |
| 13 | Left side drain pipe connection | Slit hole |
| 14 | Right side drain pipe connection | Slit hole |
| 15 | Hole of wall for taking out in piping back | φ100 |
| 16 | Upward drain pipe connection | φ60 |
| 17 | Upward gas pipe connection | φ36 |
| 18 | Upward liquid pipe connection | φ26 |

Note) 1. Location of unit's Name plate : Bottom of fan housing inside the suction grille.
2. In case of using Wireless remote controller, this position will be a signal receiver. Refer to the drawing of Wireless remote controller in detail.
3. The remote control code is the standard <about 3m outside the machine> attached. (0.5mm²×2wicks×O.D. φ5.4)
(It is not attached to VRV.)

## FXH63LVE




| Number | Name | Description |
|---|---|---|
| 1 | Air discharge grille | |
| 2 | Air suction grille | |
| 3 | Air filter | |
| 4 | Gas pipe connection | φ15.9flare |
| 5 | Liquid pipe connection | φ9.5flare |
| 6 | Drain pipe connection | VP20 |
| 7 | Earth terminal (inside the electric components box) | M4 |
| 8 | Suspention bracket | |
| 9 | Backward piping and wiring connection opening lid | |
| 10 | Upward piping and wiring connection opening lid | |
| 11 | Right side pipe connection | Slit hole |
| 12 | Left back drain pipe connection | Slit hole |
| 13 | Left side drain pipe connection | Slit hole |
| 14 | Right side drain pipe connection | Slit hole |
| 15 | Hole of wall for taking out in piping back | φ100 |
| 16 | Upward drain pipe connection | φ60 |
| 17 | Upward gas pipe connection | φ36 |
| 18 | Upward liquid pipe connection | φ26 |

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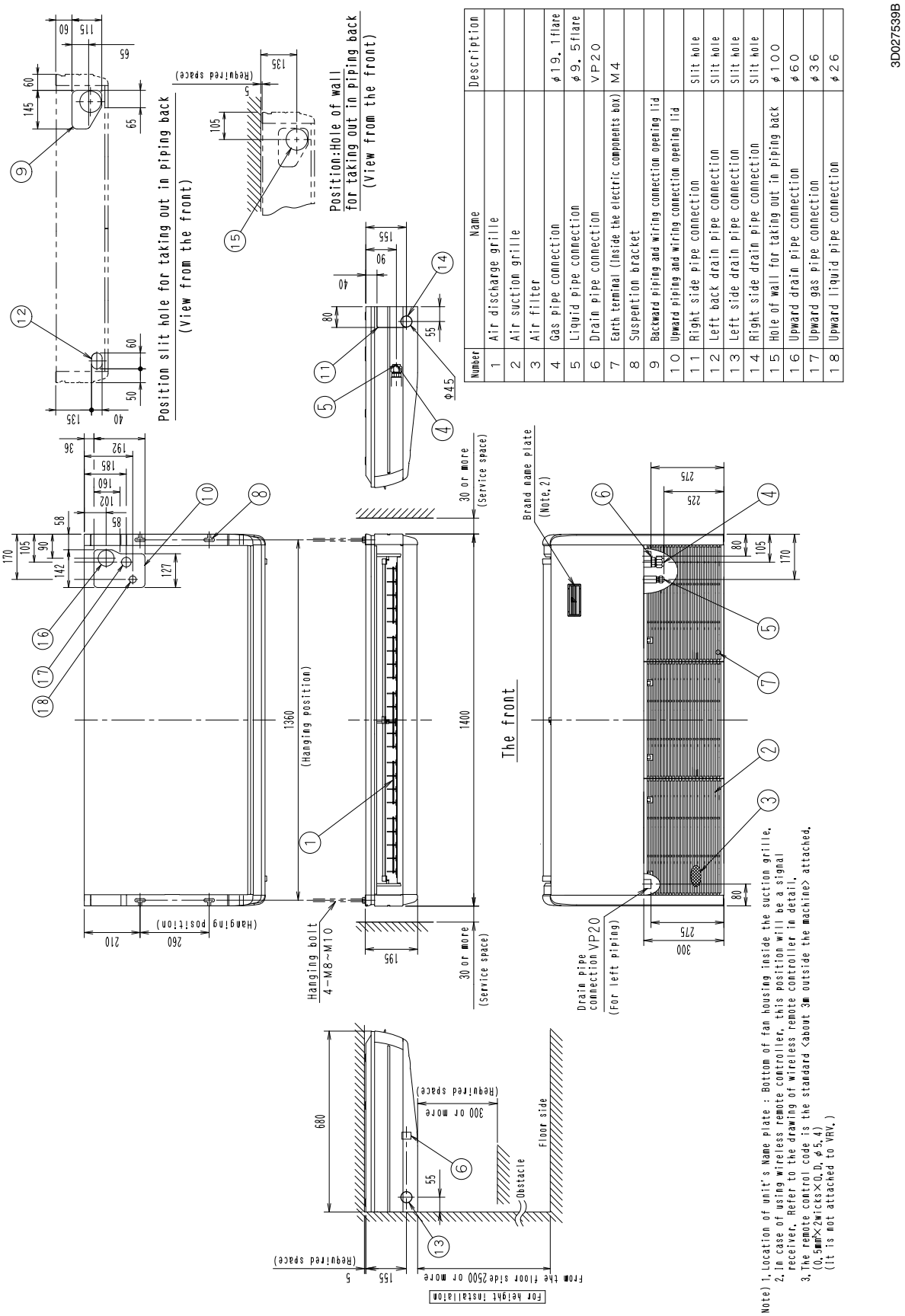
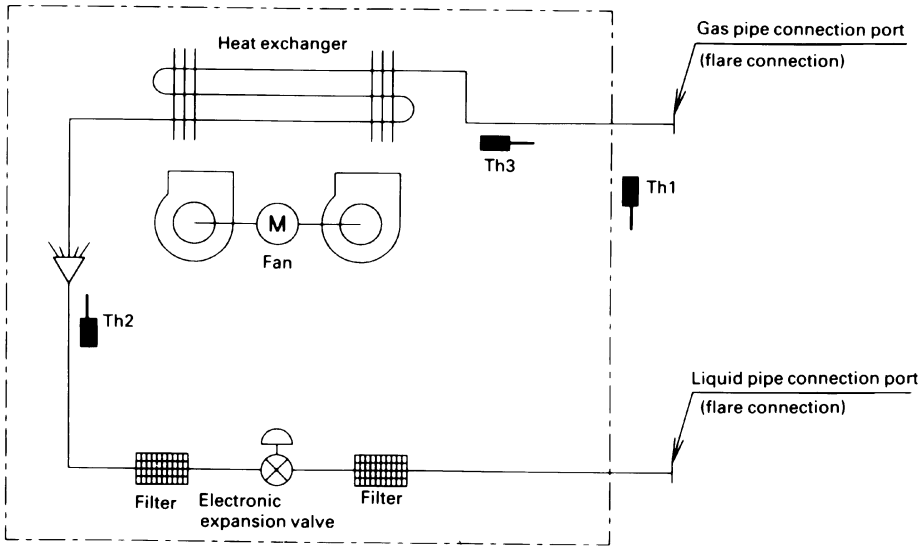
## FXH100LVE




| Number | Name | Description |
|---|---|---|
| 1 | Air discharge grille | |
| 2 | Air suction grille | |
| 3 | Air filter | |
| 4 | Gas pipe connection | φ19.1flare |
| 5 | Liquid pipe connection | φ9.5flare |
| 6 | Drain pipe connection | VP20 |
| 7 | Earth terminal (Inside the electric components box) | M4 |
| 8 | Suspention bracket | |
| 9 | Backward piping and wiring connection opening lid | |
| 10 | Upward piping and wiring connection opening lid | |
| 11 | Right side pipe connection | Slit hole |
| 12 | Left back drain pipe connection | Slit hole |
| 13 | Left side drain pipe connection | Slit hole |
| 14 | Right side drain pipe connection | Slit hole |
| 15 | Hole of wall for taking out in piping back | φ100 |
| 16 | Upward drain pipe connection | φ60 |
| 17 | Upward gas pipe connection | φ36 |
| 18 | Upward liquid pipe connection | φ26 |

# 4. Piping Diagrams




Th1: Thermister for suction air temp.
Th2: Thermister for liquid line temp.
Th3: Thermister for gas line temp.

4D034245

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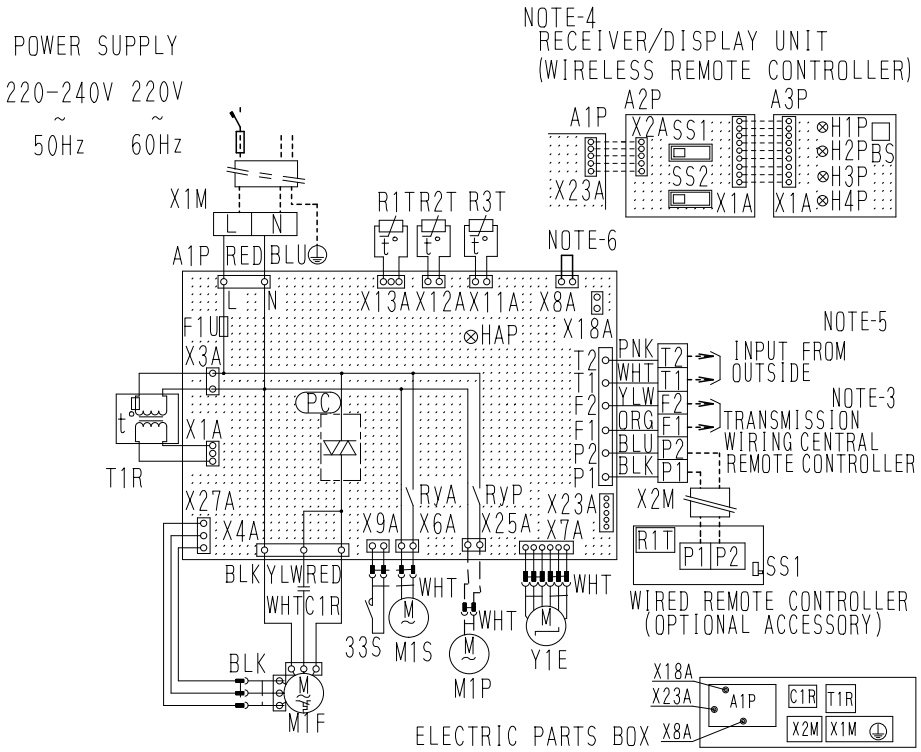
■ **Refrigerant pipe connection port diameters**

(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXH32L | ϕ12.7 | ϕ6.4 |
| FXH63L | ϕ15.9 | ϕ9.5 |
| FXH100L | ϕ19.1 | |

# 5. Wiring Diagrams

**FXH 32L / 63L / 100LVE**




| | | | |
|---|---|---|---|
| 33S | LIMIT SWITCH (SWING FLAP) | H3P | LIGHT EMITTING DIODE (FILTER SIGN-RED) |
| A1P | PRINTED CIRCUIT BOARD | H4P | LIGHT EMITTING DIODE (DEFROST-ORANGE) |
| C1R | CAPACITOR (M1F) | SS1 | SELECTOR SWITCH (MAIN/SUB) |
| F1U | FUSE(250V,5A Ⓑ)OR F10T 250V | SS2 | SELECTOR SWITCH (WIRELESS ADDRESS SET) |
| HAP | LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN) | | CONNECTOR FOR OPTIONAL PARTS |
| M1F | MOTOR (INDOOR FAN) | X8A | CONNECTOR (FLOAT SWITCH) |
| M1S | MOTOR (SWING FLAP) | X18A | CONNECTOR (WIRING ADAPTOR FOR ELECTRICAL APPENDICES ) |
| Q1F | THERMO SWITCH (M1F EMBEDDED) | X23A | CONNECTOR (WIRELESS REMOTE CONTROLLER) |
| R1T | THERMISTOR (AIR) | | |
| R2T | THERMISTOR (COIL LIQUID) | | |
| R3T | THERMISTOR (COIL GAS) | | |
| RyA | MAGNETIC RELAY (M1S) | | |
| RyP | MAGNETIC RELAY (M1P) | | |
| T1R | TRANSFOMER (220-240V/22V) | | |
| X1M | TERMINAL STRIP (POWER) | | |
| X2M | TERMINAL STRIP (CONTROL) | | |
| Y1E | ELECTRONIC EXPANSION VALVE | | |
| PC | PHASE CONTROL CIRCUIT | | |
| | OPTIONAL PARTS | | |
| M1P | MOTOR (DRAIN PUMP) | | |
| | WIRED REMOTE CONTROLLER | | |
| R1T | THERMISTOR (AIR) | | |
| SS1 | SELECTOR SWITCH (MAIN/SUB) | | |
| | RECEIVER/DISPLAY UNIT (ATTACHED TO WIRELESS REMOTE CONTROLLER) | | |
| A2P | PRINTED CIRCUIT BOARD | | |
| A3P | PRINTED CIRCUIT BOARD | | |
| BS | PUSH BUTTON (ON/OFF) | | |
| H1P | LIGHT EMITTING DIODE (ON-RED) | | |
| H2P | LIGHT EMITTING DIODE (TIMER-GREEN) | | |

NOTES)
1. ▭▭▭: TERMINAL ⊙⊙, ⊐⊏: CONNECTOR ⊐▭: CONNECTOR
   —○—: WIRE CLAMP
2. ---- : FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTION MANUAL.
4. X23A IS CONNECTED WHEN THE WIRELESS REMOTE CONTROLLER KIT IS BEING USED.
5. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
6. IN CASE INSTALLING THE DRAIN PUMP, REMOVE THE JUMPER CONNECTOR OF X8A AND EXECUTE THE ADDITIONAL WIRING FOR FLOAT SWITCH AND DRAIN PUMP.
7. SYMBOLS SHOW AS FOLLOWS.
   (PNK: PINK WHT: WHITE YLW: YELLOW ORG: ORANGE
   BLU: BLUE BLK: BLACK RED: RED)
8. USE COPPER CONDUCTORS ONLY.

3D034052A

# 6. Capacity Tables

## 6.1 50Hz

### 6.1.1 Cooling Capacity

**FXH – L**

**[50Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 32 | 10.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.1 |
| | 12.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 |
| | 14.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 |
| | 16.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.5 | 2.9 |
| | 18.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.5 | 2.9 |
| | 20.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.4 | 2.9 |
| | 21.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.4 | 2.8 |
| | 23.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.2 | 3.0 | 4.3 | 2.8 |
| | 25.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.2 | 2.9 | 4.3 | 2.8 |
| | 27.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.1 | 2.9 | 4.2 | 2.7 |
| | 29.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.0 | 2.9 | 4.1 | 2.7 |
| | 31.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.0 | 2.8 | 4.1 | 2.7 |
| | 33.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 3.9 | 2.8 | 4.0 | 2.7 |
| | 35.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 3.9 | 2.8 | 4.0 | 2.7 |
| | 37.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.7 | 2.9 | 3.8 | 2.8 | 3.9 | 2.6 |
| | 39.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.7 | 2.9 | 3.8 | 2.7 | 3.8 | 2.6 |
| 63 | 10.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.3 | 5.5 |
| | 12.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.1 | 5.4 |
| | 14.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.0 | 5.4 |
| | 16.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 8.9 | 5.3 |
| | 18.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 8.8 | 5.2 |
| | 20.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 8.7 | 5.2 |
| | 21.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 8.6 | 5.1 |
| | 23.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.3 | 5.4 | 8.5 | 5.1 |
| | 25.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.2 | 5.3 | 8.4 | 5.0 |
| | 27.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.1 | 5.3 | 8.3 | 5.0 |
| | 29.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.0 | 5.2 | 8.2 | 4.9 |
| | 31.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 7.9 | 5.1 | 8.0 | 4.9 |
| | 33.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 7.8 | 5.1 | 7.9 | 4.9 |
| | 35.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 7.6 | 5.0 | 7.8 | 4.8 |
| | 37.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.4 | 5.2 | 7.5 | 5.0 | 7.7 | 4.8 |
| | 39.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.2 | 5.1 | 7.4 | 5.0 | 7.6 | 4.7 |
| 100 | 10.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.6 | 8.6 |
| | 12.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.4 | 8.5 |
| | 14.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.2 | 8.4 |
| | 16.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.1 | 8.3 |
| | 18.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 13.9 | 8.2 |
| | 20.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 13.7 | 8.0 |
| | 21.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 13.6 | 8.0 |
| | 23.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.2 | 8.3 | 13.4 | 7.9 |
| | 25.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.0 | 8.2 | 13.2 | 7.8 |
| | 27.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 12.8 | 8.1 | 13.0 | 7.7 |
| | 29.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 12.6 | 8.0 | 12.9 | 7.6 |
| | 31.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 12.4 | 7.9 | 12.7 | 7.5 |
| | 33.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 12.2 | 7.8 | 12.5 | 7.5 |
| | 35.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.8 | 8.1 | 12.0 | 7.7 | 12.3 | 7.4 |
| | 37.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.6 | 8.0 | 11.9 | 7.6 | 12.1 | 7.3 |
| | 39.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.4 | 7.9 | 11.7 | 7.6 | 11.9 | 7.2 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

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## 6.1.2 Heating Capacity

### FXH-L

**[50Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 32 | -14.7 | -15.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -12.6 | -13.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -10.5 | -11.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | -9.5 | -10.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -8.5 | -9.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -7.0 | -7.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -5.0 | -5.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -3.0 | -3.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | 0.0 | -0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 3.0 | 2.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.4 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 100 | -14.7 | -15.0 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| | -12.6 | -13.0 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| | -10.5 | -11.0 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| | -9.5 | -10.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| | -8.5 | -9.1 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 |
| | -7.0 | -7.6 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 |
| | -5.0 | -5.6 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| | -3.0 | -3.7 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| | 0.0 | -0.7 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 10.5 |
| | 3.0 | 2.2 | 11.7 | 11.7 | 11.7 | 11.7 | 11.5 | 10.5 |
| | 5.0 | 4.1 | 12.1 | 12.1 | 12.1 | 12.0 | 11.5 | 10.5 |
| | 7.0 | 6.0 | 12.5 | 12.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 9.0 | 7.9 | 12.9 | 12.9 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 11.0 | 9.8 | 13.3 | 13.3 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 13.0 | 11.8 | 13.8 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 15.0 | 13.7 | 14.2 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

## 6.2 60Hz

### 6.2.1 Cooling Capacity

**FXH – L**

**[60Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 32 | 10.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.1 |
| | 12.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.1 |
| | 14.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.1 |
| | 16.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.1 |
| | 18.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.1 |
| | 20.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.1 |
| | 21.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.1 |
| | 23.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.7 | 3.0 |
| | 25.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.6 | 3.0 |
| | 27.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.5 | 3.0 |
| | 29.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.5 | 3.0 |
| | 31.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.4 | 2.9 |
| | 33.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.3 | 3.0 | 4.3 | 2.9 |
| | 35.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 2.9 | 4.2 | 3.0 | 4.3 | 2.9 |
| | 37.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 3.0 | 4.1 | 3.0 | 4.2 | 2.9 |
| | 39.0 | 2.5 | 2.4 | 2.9 | 2.6 | 3.4 | 2.8 | 3.6 | 2.9 | 3.8 | 3.0 | 4.1 | 3.0 | 4.2 | 2.8 |
| 63 | 10.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.3 | 5.5 |
| | 12.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.3 | 5.5 |
| | 14.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.3 | 5.5 |
| | 16.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.3 | 5.5 |
| | 18.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.3 | 5.5 |
| | 20.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.3 | 5.5 |
| | 21.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.3 | 5.5 |
| | 23.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.2 | 5.5 |
| | 25.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 9.1 | 5.4 |
| | 27.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 8.9 | 5.4 |
| | 29.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 8.8 | 5.4 |
| | 31.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 8.7 | 5.3 |
| | 33.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.4 | 5.5 | 8.6 | 5.3 |
| | 35.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.3 | 5.5 | 8.4 | 5.2 |
| | 37.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.3 | 8.1 | 5.4 | 8.3 | 5.2 |
| | 39.0 | 4.9 | 4.2 | 5.8 | 4.6 | 6.7 | 5.1 | 7.1 | 5.2 | 7.5 | 5.4 | 8.0 | 5.4 | 8.2 | 5.1 |
| 100 | 10.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.7 | 8.6 |
| | 12.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.7 | 8.6 |
| | 14.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.7 | 8.6 |
| | 16.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.7 | 8.6 |
| | 18.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.7 | 8.6 |
| | 20.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.7 | 8.6 |
| | 21.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.7 | 8.6 |
| | 23.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.5 | 8.5 |
| | 25.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.3 | 8.4 |
| | 27.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 14.1 | 8.3 |
| | 29.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 13.9 | 8.2 |
| | 31.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.3 | 8.4 | 13.7 | 8.2 |
| | 33.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.2 | 8.5 | 13.5 | 8.1 |
| | 35.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.1 | 13.0 | 8.3 | 13.3 | 8.0 |
| | 37.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.2 | 12.8 | 8.3 | 13.1 | 7.9 |
| | 39.0 | 7.7 | 6.3 | 9.1 | 7.0 | 10.5 | 7.8 | 11.2 | 8.0 | 11.9 | 8.2 | 12.6 | 8.2 | 12.9 | 7.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2.2 Heating Capacity

### FXH-L

**[60Hz]** **Heating capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 32 | -14.7 | -15.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -12.6 | -13.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -10.5 | -11.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -9.5 | -10.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -8.5 | -9.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -7.0 | -7.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | -5.0 | -5.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| | -3.0 | -3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 0.0 | -0.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 3.0 | 2.2 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.5 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 63 | -14.7 | -15.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | -12.6 | -13.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -10.5 | -11.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | -9.5 | -10.0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -8.5 | -9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -7.0 | -7.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| | -5.0 | -5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | -3.0 | -3.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.8 |
| | 0.0 | -0.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.4 | 6.8 |
| | 3.0 | 2.2 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.9 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 9.2 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| 100 | -14.7 | -15.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| | -12.6 | -13.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| | -10.5 | -11.0 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 |
| | -9.5 | -10.0 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 |
| | -8.5 | -9.1 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| | -7.0 | -7.6 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| | -5.0 | -5.6 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.5 |
| | -3.0 | -3.7 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 10.5 |
| | 0.0 | -0.7 | 11.8 | 11.8 | 11.8 | 11.8 | 11.5 | 10.5 |
| | 3.0 | 2.2 | 12.5 | 12.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 5.0 | 4.1 | 13.0 | 13.0 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 7.0 | 6.0 | 13.4 | 13.4 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 9.0 | 7.9 | 13.8 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 11.0 | 9.8 | 14.3 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 13.0 | 11.8 | 14.5 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |
| | 15.0 | 13.7 | 14.5 | 13.5 | 12.5 | 12.0 | 11.5 | 10.5 |

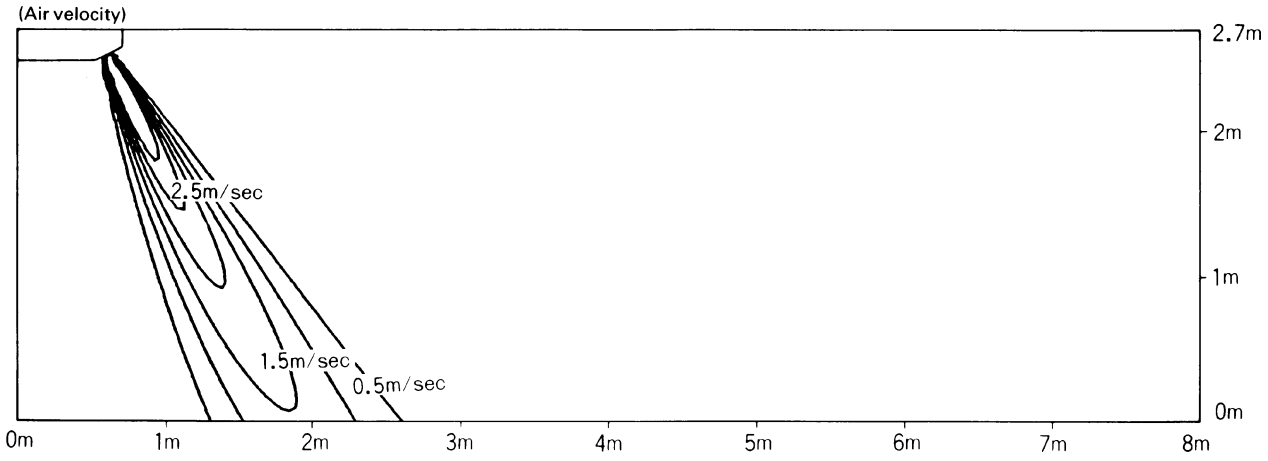
TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor and outdoor unit combination.

# 7. Air Velocity and Temperature Distributions (Reference Data)

**FXH100L**

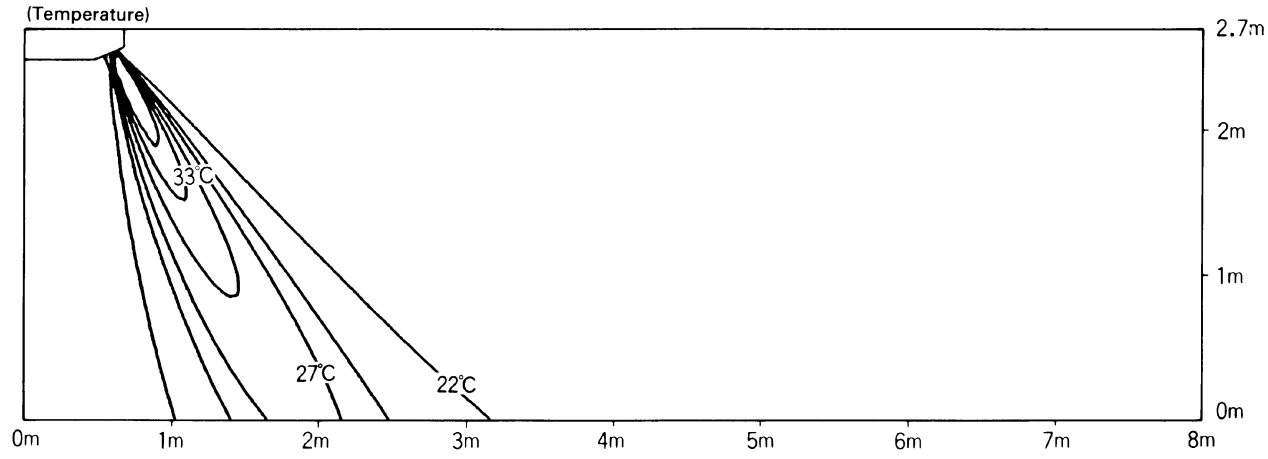
**(Heating·Air Velocity Distribution)**
**Center Air Flow**




(V0466)

**FXH100L**

**(Heating·Temperature Distribution)**
**Center Air Flow**




(V0467)

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# 8. Electric Characteristics

| Units | | | | Power supply | | IFM | | Input(W) | |
|---|---|---|---|---|---|---|---|---|---|
| Model | Hz | Volts | Voltage range | MCA | MFA | KW | FLA | Cooling | Heating |
| FXH32LVE FXHQ32MVE | 50 | 220-240 | MAX. 264 Min. 198 | 0.8 | 15 | 0.062 | 0.6 | 111 | 111 |
| FXH63LVE FXHQ63MVE | | | | 0.8 | 15 | 0.062 | 0.6 | 115 | 115 |
| FXH100LVE FXHQ100MVE | | | | 0.9 | 15 | 0.130 | 0.7 | 135 | 135 |
| FXH32LVE FXHQ32MVE | 60 | 220 | MAX. 242 Min. 198 | 0.9 | 15 | 0.062 | 0.7 | 142 | 142 |
| FXH63LVE FXHQ63MVE | | | | 0.9 | 15 | 0.062 | 0.7 | 145 | 145 |
| FXH100LVE FXHQ100MVE | | | | 1.3 | 15 | 0.130 | 1.0 | 199 | 199 |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
KW : Fan Motor Rated Output(KW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

1. Voltage range

   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

   MCA = 1.25 X FLA

   MFA ≦ 4 X FLA

   (Next lower standard fuse rating. Min. 15A)

4. Select wire size based on the MCA.

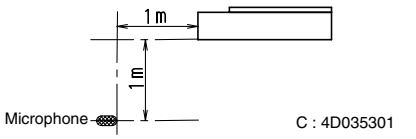
5. Instead of fuse, use Circuit Breaker.

4D035304A

# 9. Sound Levels

## Overall

■ **Ceiling Suspended Type**




dBA

| Model | 50/60Hz | |
|---|---|---|
| | H | L |
| FXH32L | 36 | 31 |
| FXH63L | 39 | 34 |
| FXH100L | 45 | 37 |

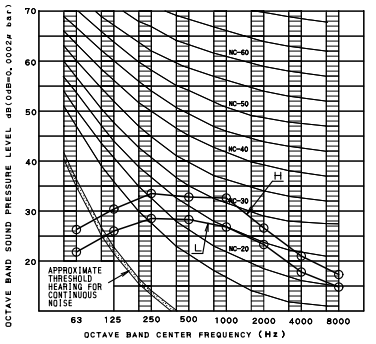
**Notes:**

1. The operating conditions are assumed to be standard (JIS conditions).
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

## Octave Band Level

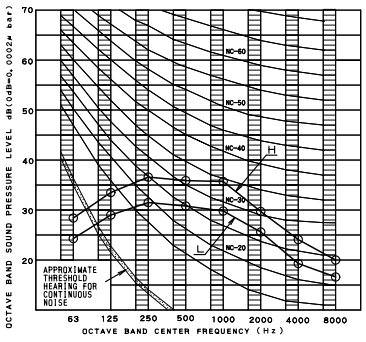
220, 240V

**FXH32LVE**



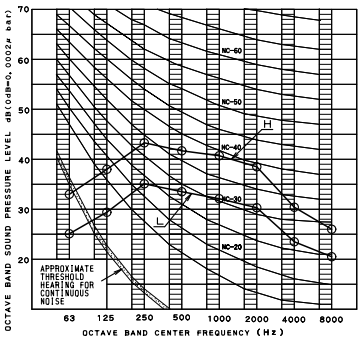

4D035301

**FXH63LVE**




4D035302

**FXH100LVE**

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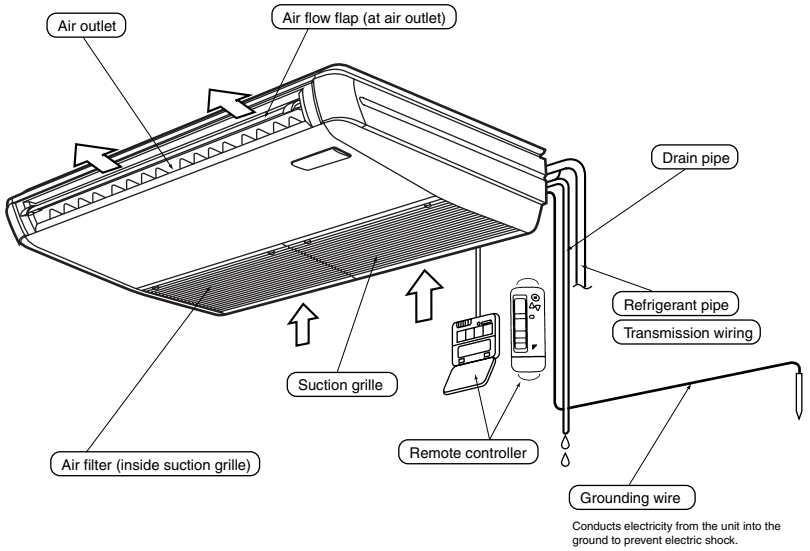
# 10. Installation

### Installation Example




## Service Space (Selecting Installation Site)

**(1) Select an installation site where the following conditions are fulfilled and that meets your customer's approval.**

- Where optimum air distribution can be ensured.
- Where nothing blocks air passage.
- Where condensate can be properly drained.
- If supporting structural members are not strong enough to take the unit's weight, the unit could fall out of place and cause serious injury.
- Where the false ceiling is not noticeably on an incline.
- Where sufficient clearance for maintenance and service can be ensured. **(Refer to Fig. 1)**
  If sufficient clearance could be ensured at*, leave a space of 200 mm or more between the unit and it's surroundings easier maintenance and service.
- Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual for the outdoor unit.)
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1 m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)

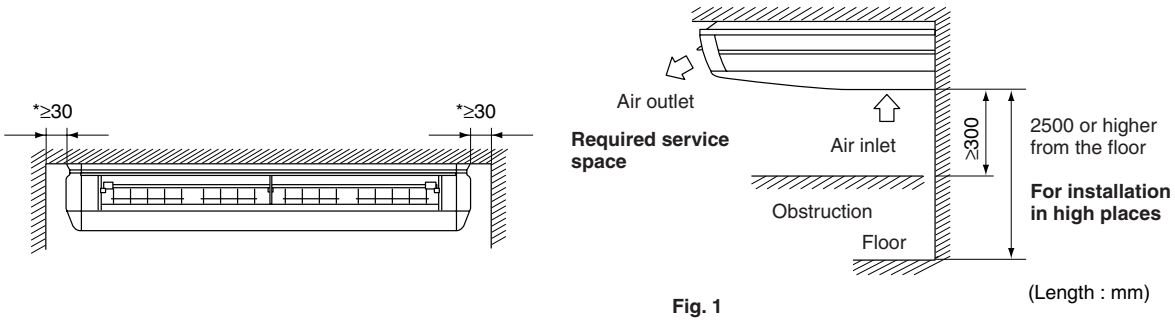



**Fig. 1**

**(2) Use suspension bolts for installation. Check whether the ceiling is strong enough to support the weight of the unit or not. If there is a risk, reinforce the ceiling before installing the unit.**
(Installation pitch is marked on the paper pattern for installation. Refer to it to check for points requiring reinforcing.)

**(3) This indoor unit may be installed on ceilings up to 3.5 m in height. However, if the ceiling is higher than 2.7m, the remote control will have to be set locally.**

3PN01417-5K-4

### Bolt Pitch

## Preparations Before Installation

**(1) Relative positions of indoor unit, suspension bolt, piping hole, drain piping hole, and electric wire hole position. (Refer to Fig. 2)**

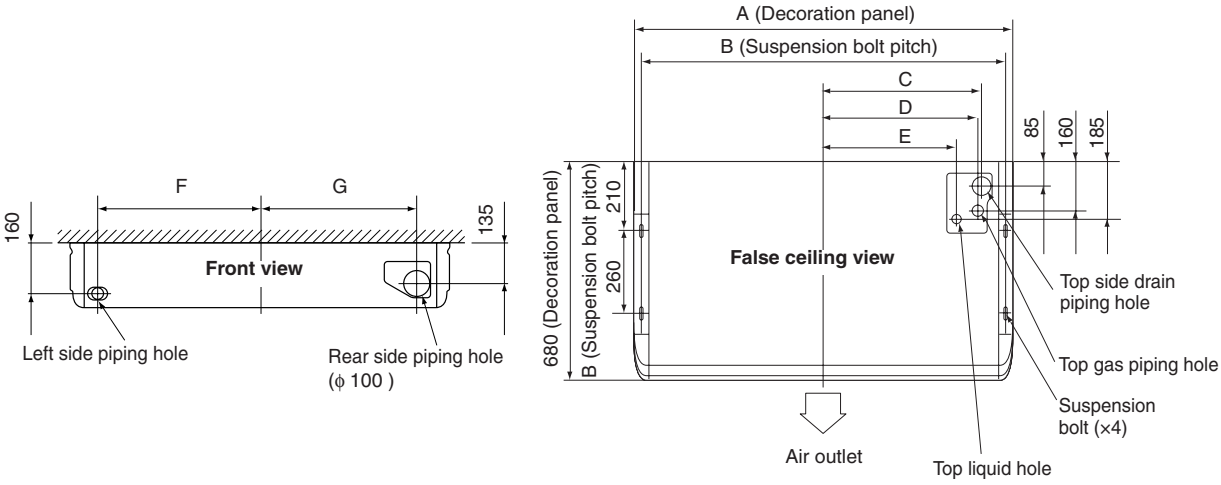



**Fig. 2**

| Model | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| FXH32L | 960 | 920 | 390 | 375 | 310 | 400 | 375 |
| FXH63L | 1160 | 1120 | 490 | 475 | 410 | 500 | 475 |
| FXH100L | 1400 | 1360 | 610 | 595 | 530 | 620 | 595 |

**(2) Make the suspension bolt hole, piping hole, drain piping hole.**

- Refer to the paper pattern for installation for hole positions.
- Fix the positions for suspension bolt, piping hole, drain piping hole, and electric wire hole, and make the openings.

3PN01417-5K-5

### Drain Piping Work

Rig the drain pipe as shown below and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.

**(1) Rig drain piping**

- For drain work, rig the pipes so that they drain reliably.
- The drain pipe outlet direction can be chosen from the right rear, right, left rear, and left. Refer to “REFRIGERANT PIPING WORK” for right rear and right direction, and refer to Fig. 20 for left rear and left direction.

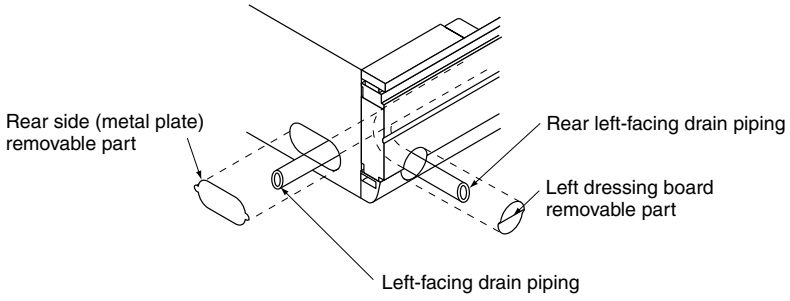



**Fig. 20**

- For left drain pipe outlet, remove the rubber plug and the insulation on the drain pipe connecting opening on the left side of the unit and change the position to the right side.

3PN01417-5K-1C

- Insert the rubber stopper securely, all the way to the base, in order to prevent water leakage.
- The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe. (Vinyl tube; pipe size: 20 mm; outer dimension: 26 mm)
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air pockets from forming. **(Refer to Fig. 21)**
- Use the attached drain hose (1) and clamp (2).
  Insert the drain hose into the drain socket, up to the gray tape.**(Refer to Fig. 22)**
  Tighten the clamp until the screw head is less than 4 mm from the hose. **(Refer to Fig. 23)**
  (Be careful of the installation direction. Install so that the clamp metal does not contact the intake grill.)
- Wrap the attached sealing pad (8) over the clamp and drain hose to insulate. **(Refer to Fig. 23)**
- No folding of drain hose inside the indoor unit. **(Refer to Fig. 24)**
  (If there is slack in the drain hose, it may cause damage to the intake grill.)

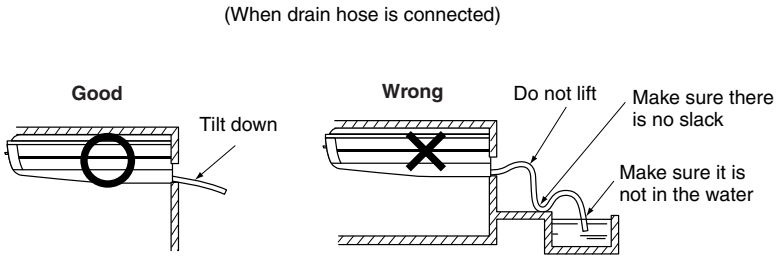



Fig. 21

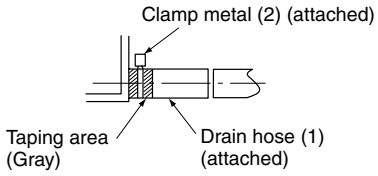



Fig. 22

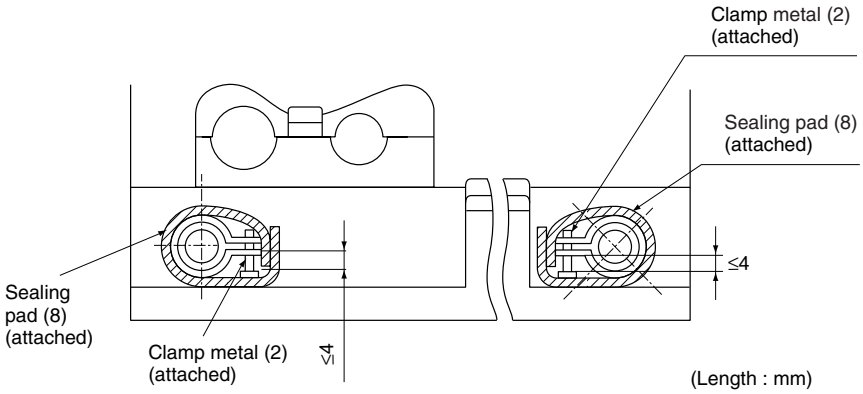



Fig. 23

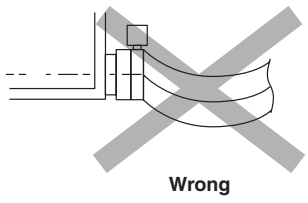



Fig. 24

**(2) Confirm that smooth drainage is achieved after the piping work.**

- Add 600 cc of water in the drain pan from the air outlet for confirming drainage. **(Refer to Fig. 25)**

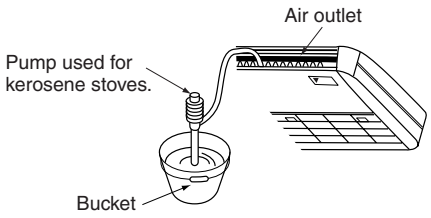



Fig. 25

**⚠ CAUTION**

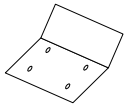
Drain piping connections
Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.

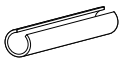
3PN01417-5K-11

# 11. Accessories

### Standard Accessories

**FXH32L~100L**

| Name | (1) Drain hose | (2) Clamp metal | (3) Washer for hanging bracket | (4) Clamp | (5) Paper pattern for installation |
|---|---|---|---|---|---|
| Quantity | 1 pc. | 1 pc. | 8 pcs. | 6 pcs. | 1 pc. |
| Shape | | | | |  |

| Name | Insulation for fitting | Sealing pad | |
|---|---|---|---|
| Quantity | 1 each | 1 each | |
| Shape | (6)For gas pipe  (7)For liquid pipe | (8) Large (9) Small | (Other)<br>• Operation manual<br>• Installation manual |

3PN01417-5K-3

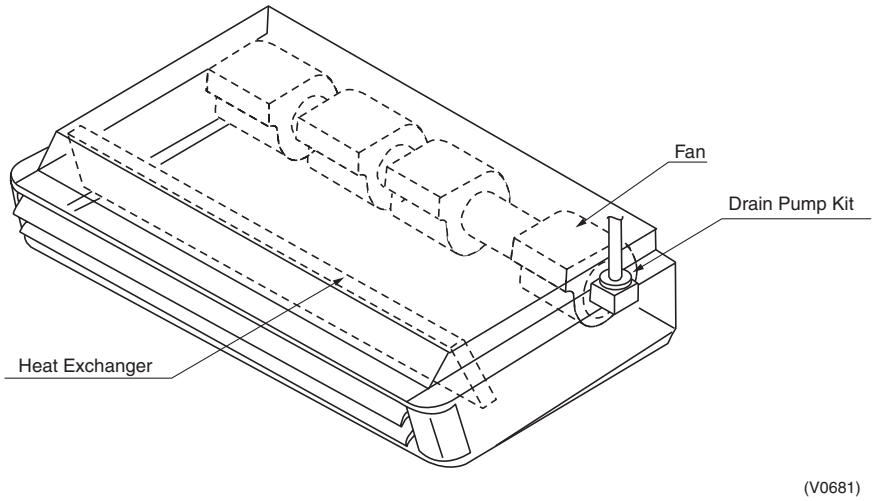
10

### Optional Accessories (For Unit)

| No. | Type / Item | FXH32L | FXH63L | FXH100L |
|---|---|---|---|---|
| 1 | Drain pump kit | KDU50B50VE | KDU50B71VE | KDU50B125VE |
| 2 | Replacement long-life filter (Resin net) | KAFJ501D56 | KAFJ501D80 | KAFJ501D112 |
| 3 | L-type piping kit (for upward direction) | KHFJ5F50 | KHFJ5F80 | KHFJ5F160 |

4D029907A

### Optional Accessories (For Controls) Refer to P.484.




(V0681)

## Drain Pump Kit

### Specifications

| Items \ Model | | KDU50B50VE | KDU50B71VE | KDU50B125VE |
|---|---|---|---|---|
| Drain-up Lift (mm) | | 600 | | |
| Drain Con. Diameter | | VP20 (Ex. dia. ϕ26, Int. dia. ϕ20) | | |
| Pump | Power Supply | Single phase 220-240V/220V 50/60Hz (from Indoor Unit PC Board) | | |
| | Power Consumption (W) | 13.5/12 (50/60Hz) | | |
| Applicable Models | | 32 class | 63 class | 100 class |

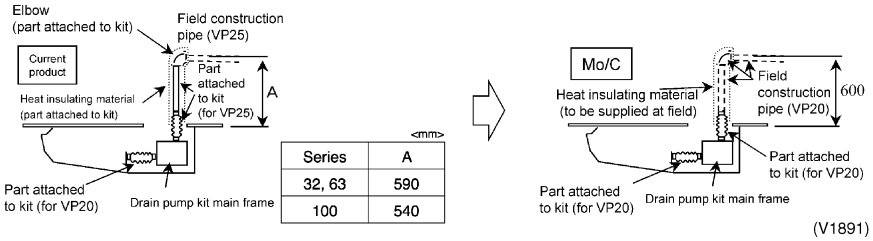
### Precaution at use

1. Don't turn off the power within 5 minutes after cooling operation stops.
2. The liquid crystal display blinks to inform us that safety device actuated.
3. When cooling operation's season is over, extract drain water.

### Installation guide of the drain pump kit

**<Changes in drain pump kit>**

- Exit drain pipe has been changed from VP25 to VP20 (to meet the drain diameter of main frame).
- Attached drain pipe (450 mm chloride vinyl straight pipe bellow, elbow) -> only bellow hose for VP20
- All units of drain up height was unified to 600mm (From the bottom of the ceiling)

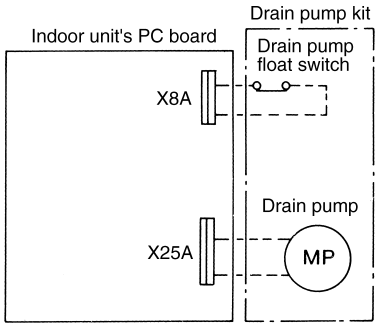



<mm>

| Series | A |
|---|---|
| 32, 63 | 590 |
| 100 | 540 |

(V1891)

### Wiring diagram




Remove the X8A short circuit connector when the float switch will be connected.

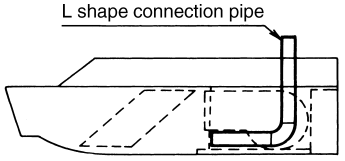
(V0761)

## L Shape Connection Pipe Kit

### Application purpose

This kit must be bent inside the unit as shown below, when the refrigerant piping is carried out in a ceiling space. This L shape kit is an optional accessory which has been developed for improving the work of the processing on site.

### Installation




(V0762)

# FXA-L
# Wall Mounted Type

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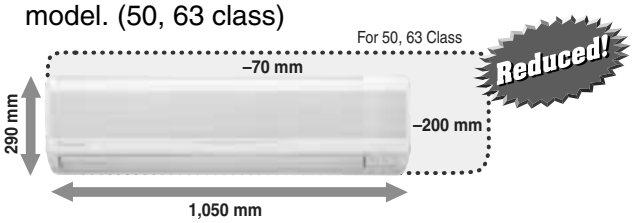
# 1. Features

**FXA20L /FXA25L /FXA32L**
**FXA40L /FXA50L /FXA63L**

New

- Compact and stylish design that does not detract from the decor of the room.
- More compact than compared with previous model. (50, 63 class)

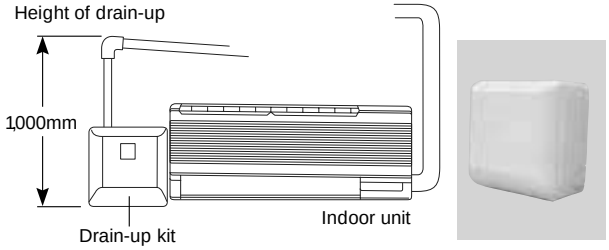



  - Drastic 10 kg weight reduction from 24 kg to 14 kg.
  - Volume reduced by 22%.
  - Space savings of up to 47%.
- Low operating sound

(220V-240V)(dB(A))

| Class | 20 | 25 | 32 | 40 | 50 | 63 |
|---|---|---|---|---|---|---|
| Operating sound (H/L) | 35/29 | 36/29 | 37/29 | 39/34 | 42/36 | 46/39 |

- Drain pan and air filter can be kept clean by mildew-proof polystyrene.
- Washable grille, the front grille can be easily removed for washing.
- Auto-swing ensures efficiency of air distribution. The louver closes automatically when the unit stops.
- 5 steps of discharge angle can be set by remote controller.
- Discharge angle is automatically set at the same angle as the previous operation when restarts. (Initial setting; 10˚ for cooling and 70˚ for heating)
- Drain-pump kit is available as optional accessory, which lifts the drain 1,000mm from the bottom of the unit.
- Flexible installation.
  - Drain pipe can be fitted to from either left or right sides.



# 2. Specifications

## Wall Mounted Type

| Model | | | FXA20LVE | FXA25LVE | FXA32LVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 2,000 | 2,500 | 3,150 |
| | | Btu/h | 7,900 | 9,900 | 12,500 |
| | | kW | 2.3 | 2.9 | 3.7 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 2.2 | 2.8 | 3.6 |
| ★3 Heating Capacity | | kcal/h | 2,200 | 2,800 | 3,400 |
| | | Btu/h | 8,500 | 10,900 | 13,600 |
| | | kW | 2.5 | 3.2 | 4.0 |
| Casing Color | | | White (3.0Y8.5/0.5) | White (3.0Y8.5/0.5) | White (3.0Y8.5/0.5) |
| Dimensions: (H×W×D) | | mm | 290×795×230 | 290×795×230 | 290×795×230 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 2×14×1.4 | 2×14×1.4 | 2×14×1.4 |
| | Face Area | m² | 0.161 | 0.161 | 0.161 |
| Fan | Model | | — | — | — |
| | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan |
| | Motor Output × Number of Units | W | 40×1 | 40×1 | 40×1 |
| | Air Flow Rate (H/L) | m³/min | 7.5/4.5 | 8/5 | 9/5.5 |
| | | cfm | 265/159 | 282/177 | 318/194 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Foamed Polystyrene / Foamed Polyethylene | Foamed Polystyrene / Foamed Polyethylene | Foamed Polystyrene / Foamed Polyethylene |
| Air Filter | | | Resin Net (Washable) | Resin Net (Washable) | Resin Net (Washable) |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) |
| | Drain Pipe | mm | VP13 (External Dia. 18 Internal Dia. 13) | VP13 (External Dia. 18 Internal Dia. 13) | VP13 (External Dia. 18 Internal Dia. 13) |
| Machine Weight | | kg | 11 | 11 | 11 |
| ★5 Sound Level (H/L) | | dBA | 35/29 | 36/29 | 37/29 |
| Safety Devices | | | Fuse | Fuse | Fuse |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22:K or M Series R407C:K or L Series | R22:K or M Series R407C:K or L Series | R22:K or M Series R407C:K or L Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws. | Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws. | Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws. |
| Drawing No. | | | 3D034904A | | |

### Notes:

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length:7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 374 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

11

## Wall Mounted Type

| Model | | | FXA40LVE | FXA50LVE | FXA63LVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 4,000 | 5,000 | 6,300 |
| | | Btu/h | 15,900 | 19,900 | 25,000 |
| | | kW | 4.7 | 5.8 | 7.3 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 4.5 | 5.6 | 7.1 |
| ★3 Heating Capacity | | kcal/h | 4,300 | 5,400 | 6,900 |
| | | Btu/h | 17,000 | 21,500 | 27,300 |
| | | kW | 5.0 | 6.3 | 8.0 |
| Casing Color | | | White (3.0Y8.5/0.5) | White (3.0Y8.5/0.5) | White (3.0Y8.5/0.5) |
| Dimensions: (H×W×D) | | mm | 290×1,050×230 | 290×1,050×230 | 290×1,050×230 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 2×14×1.4 | 2×14×1.4 | 2×14×1.4 |
| | Face Area | $m^2$ | 0.213 | 0.213 | 0.213 |
| Fan | Model | | — | — | — |
| | Type | | Cross Flow Fan | Cross Flow Fan | Cross Flow Fan |
| | Motor Output × Number of Units | W | 43×1 | 43×1 | 43×1 |
| | Air Flow Rate (H/L) | $m^3$/min | 12/9 | 15/12 | 19/14 |
| | | cfm | 424/318 | 530/424 | 671/494 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Foamed Polystyrene / Foamed Polyethylene | Foamed Polystyrene / Foamed Polyethylene | Foamed Polystyrene / Foamed Polyethylene |
| Air Filter | | | Resin Net (Washable) | Resin Net (Washable) | Resin Net (Washable) |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) |
| | Drain Pipe | mm | VP13 (External Dia. 18 Internal Dia. 13) | VP13 (External Dia. 18 Internal Dia. 13) | VP13 (External Dia. 18 Internal Dia. 13) |
| Machine Weight | | kg | 14 | 14 | 14 |
| ★5 Sound Level (H/L) | | dBA | 39/34 | 42/36 | 46/39 |
| Safety Devices | | | Fuse | Fuse | Fuse |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable outdoor unit | | | R22:K or M Series R407C:K or L Series | R22:K or M Series R407C:K or L Series | R22:K or M Series R407C:K or L Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws. | Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws. | Operation Manual, Installation Manual, Installation Panel, Paper Pattern for Installation, Insulation Tape, Clamps, screws. |
| Drawing No. | | | 3D034904A | | |

### Notes:

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp; 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp; 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 374 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=$m^3$/min×35.3 |

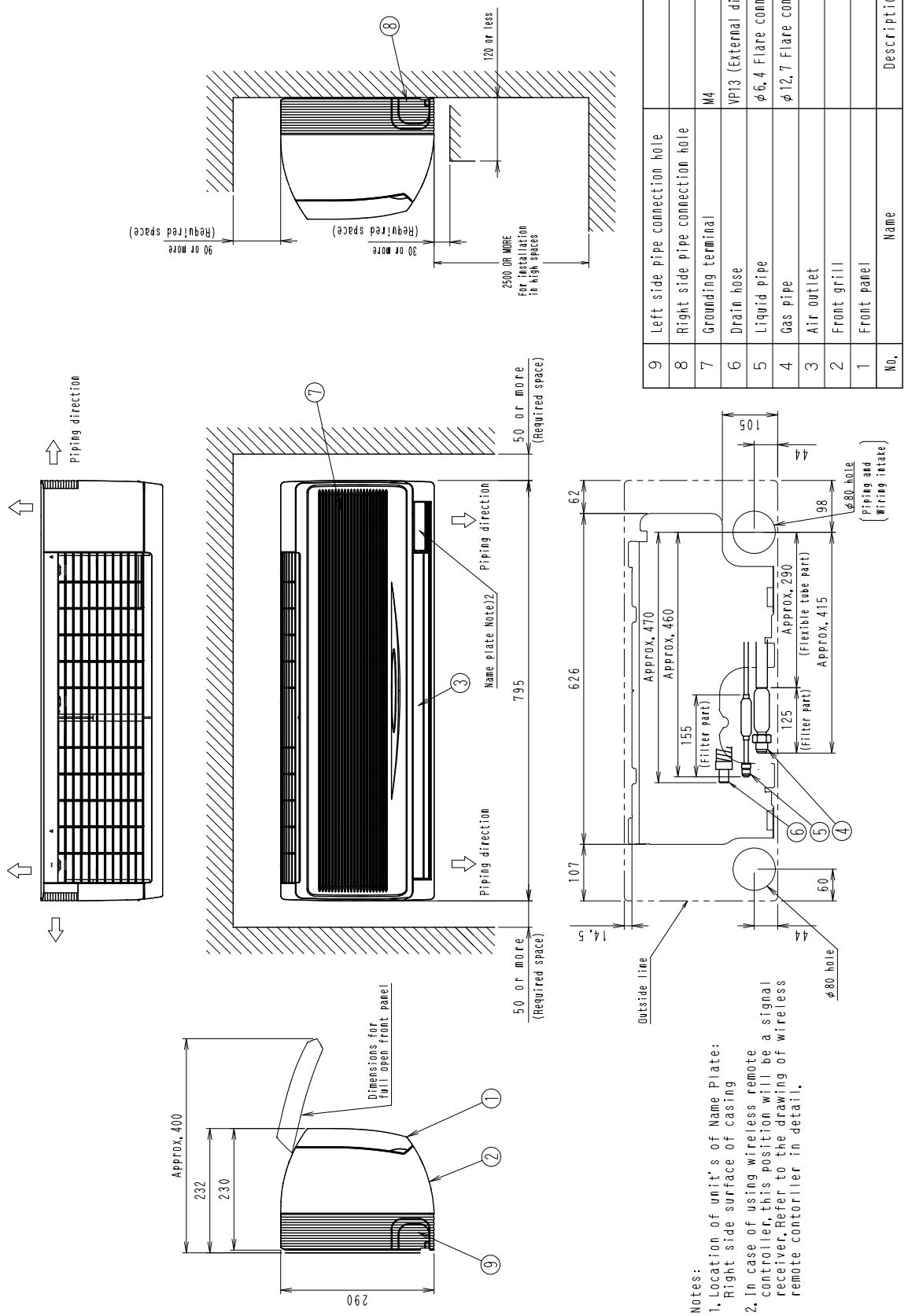
# 3. Dimensions

**FXA20L**
**FXA25L**
**FXA32L**

Unit (mm)

3D034903B

| No. | Name | Description |
|---|---|---|
| 9 | Left side pipe connection hole | |
| 8 | Right side pipe connection hole | |
| 7 | Grounding terminal | M4 |
| 6 | Drain hose | VP13 (External dia. φ18) |
| 5 | Liquid pipe | φ6.4 Flare connection |
| 4 | Gas pipe | φ12.7 Flare connection |
| 3 | Air outlet | |
| 2 | Front grill | |
| 1 | Front panel | |

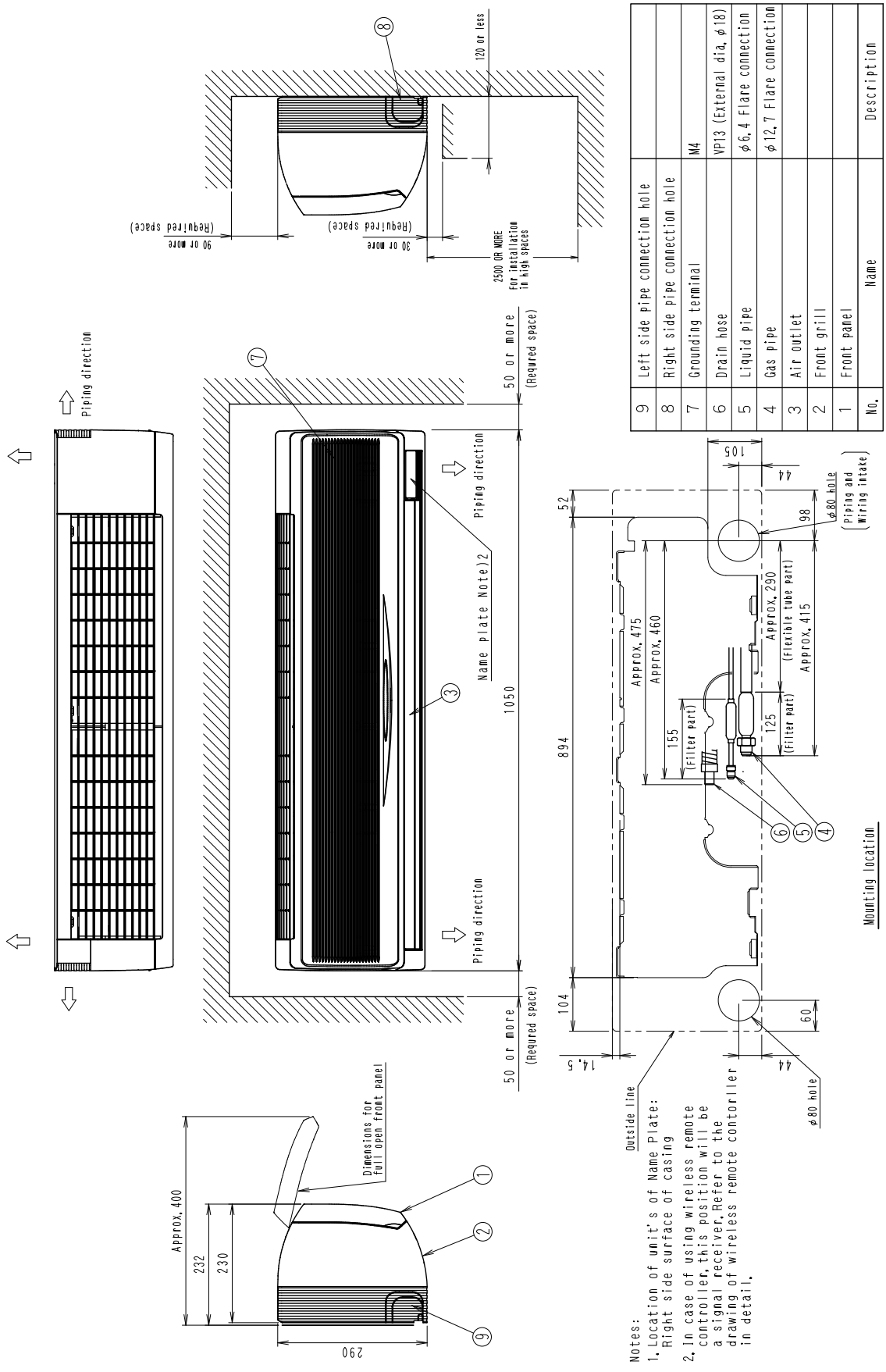



Notes:
1. Location of unit's of Name Plate:
   Right side surface of casing
2. In case of using wireless remote controller, this position will be a signal receiver. Refer to the drawing of wireless remote controller in detail.

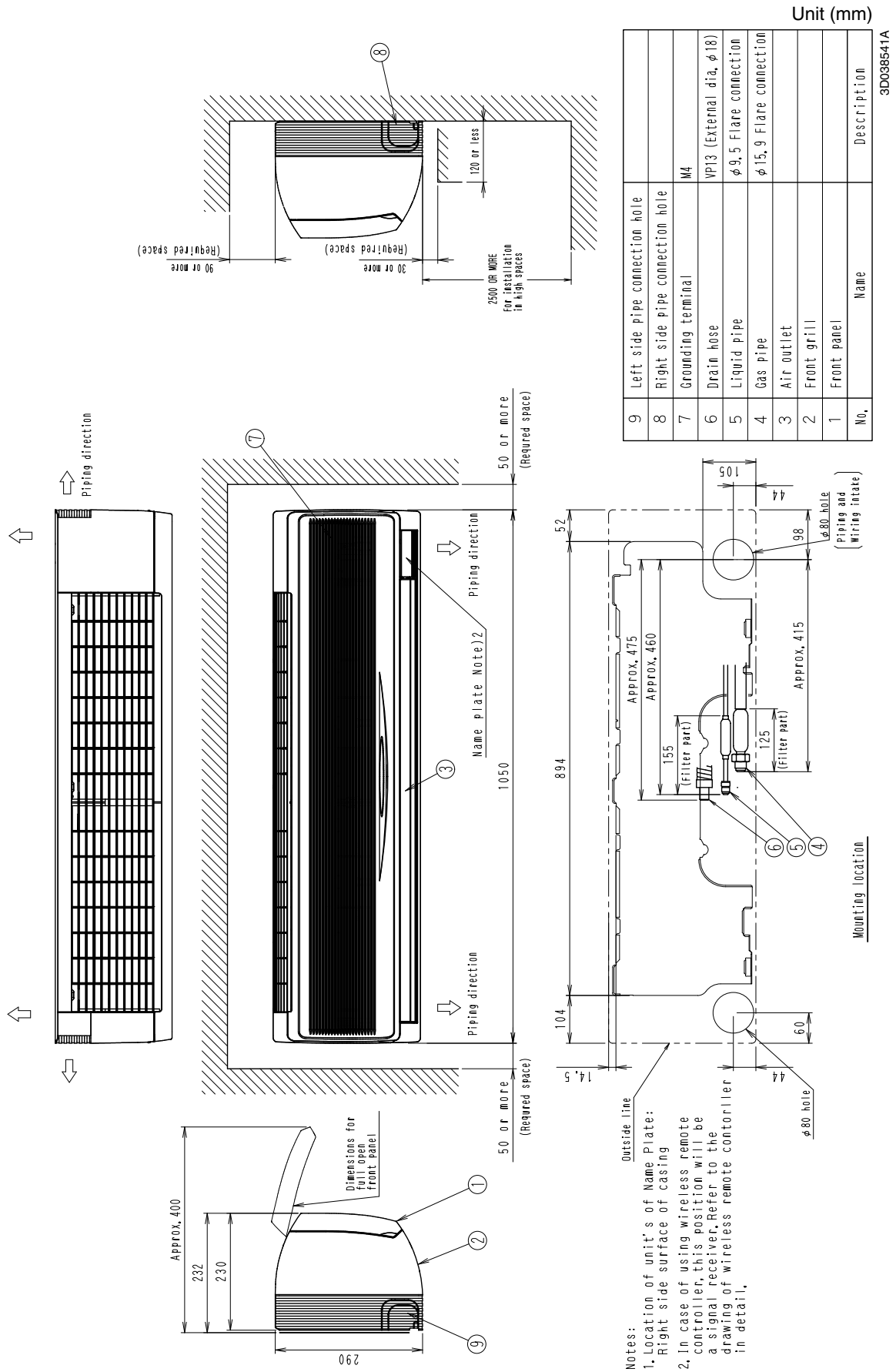
11

## FXA40L

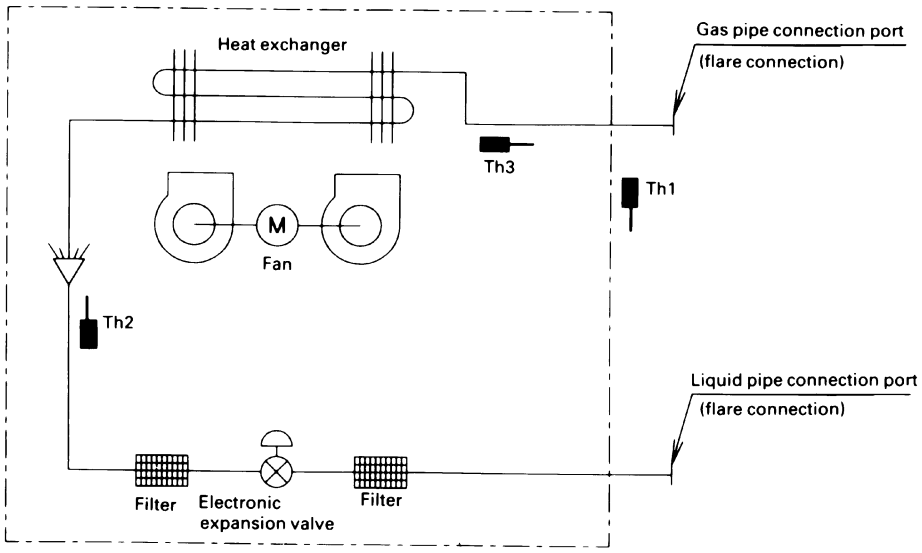
Unit (mm)



**FXA50L**
**FXA63L**



# 4. Piping Diagrams




Th1: Thermister for suction air temp.
Th2: Thermister for liquid line temp.
Th3: Thermister for gas line temp.

4D034245

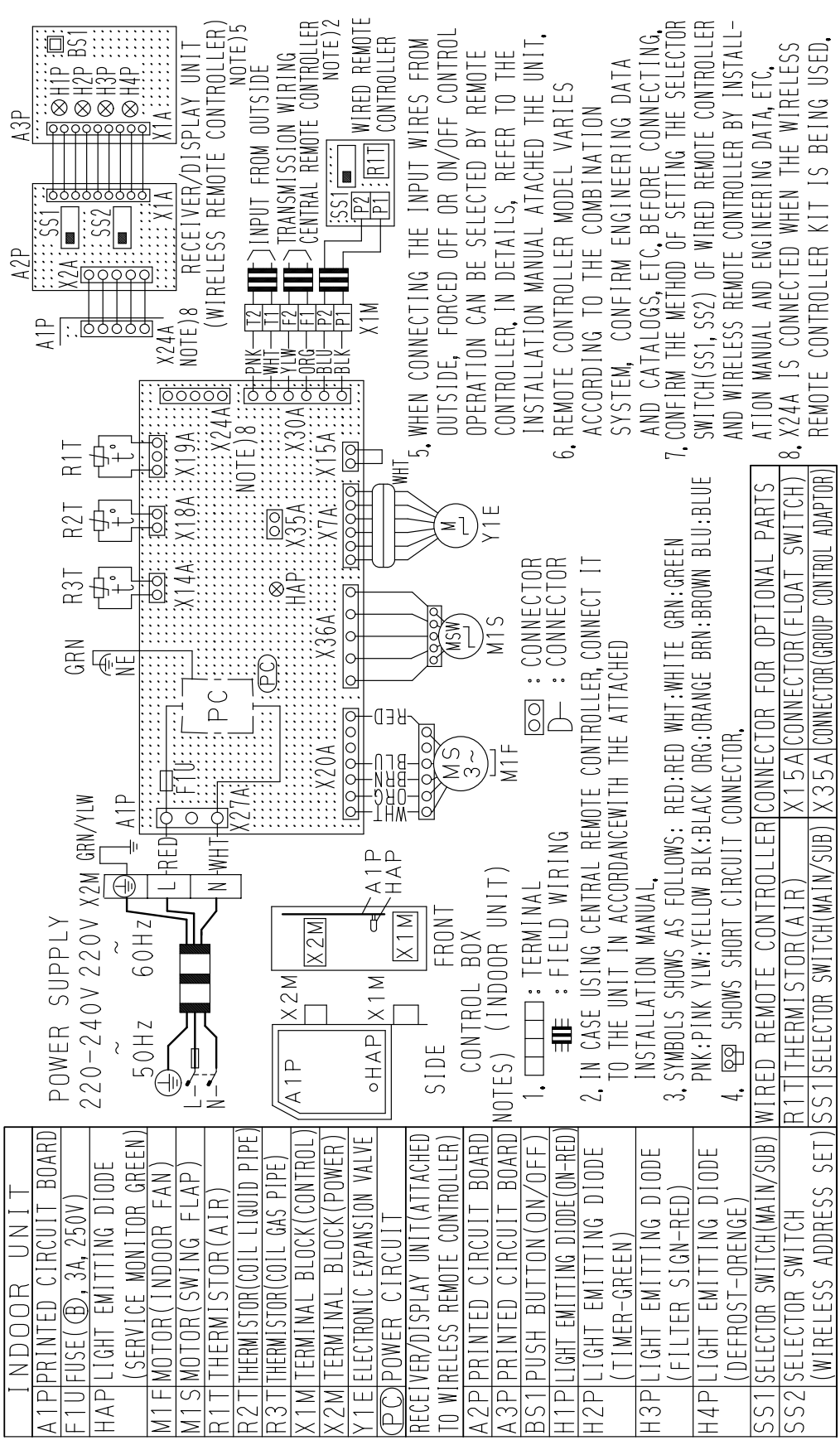
■ **Refrigerant pipe connection port diameters**

(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXA20L / 25L / 32L / 40L | ϕ12.7 | ϕ6.4 |
| FXA50L / 63L | ϕ15.9 | ϕ9.5 |

# 5. Wiring Diagrams

**FXA20L / 25L / 32L / 40L / 50L / 63LVE**




11

# 6. Capacity Tables

## 6.1 50Hz

### 6.1.1 Cooling Capacity

**FXA-L**

**[50Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. 14.0°CWB 20°CDB | | 16.0°CWB 23°CDB | | 18.0°CWB 26°CDB | | 19.0°CWB 27°CDB | | 20.0°CWB 28°CDB | | 22.0°CWB 30°CDB | | 24.0°CWB 32°CDB | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 1.9 |
| | 12.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 14.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 16.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 1.9 |
| | 18.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 20.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 21.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.8 |
| | 23.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 1.9 | 2.6 | 1.8 |
| | 25.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.8 |
| | 27.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.6 | 1.8 |
| | 29.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 1.9 | 2.5 | 1.8 |
| | 31.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.8 |
| | 33.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.9 | 2.5 | 1.8 |
| | 35.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.4 | 1.8 | 2.4 | 1.8 |
| | 37.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.3 | 1.8 | 2.4 | 1.7 |
| | 39.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.2 | 1.9 | 2.3 | 1.8 | 2.3 | 1.7 |
| 25 | 10.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 12.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.6 | 2.2 |
| | 14.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.6 | 2.2 |
| | 16.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 18.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.5 | 2.2 |
| | 20.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.4 | 2.2 |
| | 21.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.4 | 2.2 |
| | 23.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.4 | 2.2 |
| | 25.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.1 |
| | 27.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.2 | 2.2 | 3.3 | 2.1 |
| | 29.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.2 | 3.2 | 2.1 |
| | 31.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.2 | 3.2 | 2.1 |
| | 33.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.1 | 2.2 | 3.1 | 2.1 |
| | 35.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.2 | 3.1 | 2.1 |
| | 37.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 2.9 | 2.2 | 3.0 | 2.1 | 3.0 | 2.0 |
| | 39.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 2.9 | 2.2 | 2.9 | 2.1 | 3.0 | 2.0 |
| 32 | 10.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 12.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.6 | 2.8 |
| | 14.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.6 | 2.8 |
| | 16.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.5 | 2.8 |
| | 18.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.5 | 2.7 |
| | 20.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.4 | 2.7 |
| | 21.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.4 | 2.7 |
| | 23.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.2 | 2.8 | 4.3 | 2.7 |
| | 25.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.2 | 2.8 | 4.3 | 2.6 |
| | 27.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.1 | 2.7 | 4.2 | 2.6 |
| | 29.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.1 | 2.6 |
| | 31.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.0 | 2.7 | 4.1 | 2.6 |
| | 33.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 3.9 | 2.6 | 4.0 | 2.5 |
| | 35.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 3.9 | 2.6 | 4.0 | 2.5 |
| | 37.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.7 | 2.6 | 3.8 | 2.6 | 3.9 | 2.5 |
| | 39.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.7 | 2.6 | 3.8 | 2.6 | 3.8 | 2.5 |
| 40 | 10.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.9 | 3.5 |
| | 12.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.8 | 3.5 |
| | 14.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.7 | 3.5 |
| | 16.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.6 | 3.4 |
| | 18.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.6 | 3.4 |
| | 20.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.5 | 3.4 |
| | 21.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.5 | 3.3 |
| | 23.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.4 | 3.3 |
| | 25.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.2 | 3.5 | 5.3 | 3.3 |
| | 27.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.1 | 3.5 | 5.2 | 3.2 |
| | 29.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.1 | 3.5 | 5.2 | 3.2 |
| | 31.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.0 | 3.4 | 5.1 | 3.2 |
| | 33.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 4.9 | 3.4 | 5.0 | 3.1 |
| | 35.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.7 | 3.6 | 4.8 | 3.3 | 4.9 | 3.1 |
| | 37.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.7 | 3.5 | 4.8 | 3.3 | 4.9 | 3.1 |
| | 39.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.6 | 3.5 | 4.7 | 3.3 | 4.8 | 3.0 |

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.3 | 4.4 |
| | 12.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.2 | 4.3 |
| | 14.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.1 | 4.3 |
| | 16.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.0 | 4.2 |
| | 18.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 6.9 | 4.2 |
| | 20.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 6.8 | 4.2 |
| | 21.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 6.8 | 4.1 |
| | 23.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 6.7 | 4.1 |
| | 25.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.5 | 4.3 | 6.6 | 4.1 |
| | 27.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.4 | 4.3 | 6.5 | 4.0 |
| | 29.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.3 | 4.2 | 6.4 | 4.0 |
| | 31.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.2 | 4.2 | 6.3 | 3.9 |
| | 33.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.1 | 4.2 | 6.2 | 3.9 |
| | 35.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.0 | 4.1 | 6.2 | 3.8 |
| | 37.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.8 | 4.3 | 5.9 | 4.1 | 6.1 | 3.8 |
| | 39.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.7 | 4.2 | 5.8 | 4.0 | 6.0 | 3.7 |
| 63 | 10.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.3 | 5.3 |
| | 12.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.1 | 5.3 |
| | 14.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.0 | 5.2 |
| | 16.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 8.9 | 5.1 |
| | 18.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 8.8 | 5.1 |
| | 20.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 8.7 | 5.1 |
| | 21.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 8.6 | 5.0 |
| | 23.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.3 | 5.5 | 8.5 | 5.0 |
| | 25.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.2 | 5.4 | 8.4 | 4.9 |
| | 27.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.1 | 5.4 | 8.3 | 4.9 |
| | 29.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.0 | 5.3 | 8.2 | 4.8 |
| | 31.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 7.9 | 5.3 | 8.0 | 4.8 |
| | 33.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 7.8 | 5.2 | 7.9 | 4.8 |
| | 35.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 7.6 | 5.2 | 7.8 | 4.7 |
| | 37.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.4 | 5.3 | 7.5 | 5.1 | 7.7 | 4.6 |
| | 39.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.2 | 5.3 | 7.4 | 5.1 | 7.6 | 4.6 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.1.2 Heating capacity

### FXA-L

**[50Hz]** **Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| | -12.6 | -13.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -10.5 | -11.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -9.5 | -10.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -8.5 | -9.1 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -7.0 | -7.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -5.0 | -5.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -3.0 | -3.7 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | 0.0 | -0.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 3.0 | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -12.6 | -13.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -10.5 | -11.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | -9.5 | -10.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -8.5 | -9.1 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -7.0 | -7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -5.0 | -5.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -3.0 | -3.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | 0.0 | -0.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 3.0 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -12.6 | -13.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -10.5 | -11.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | -9.5 | -10.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -8.5 | -9.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -7.0 | -7.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -5.0 | -5.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -3.0 | -3.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | 0.0 | -0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 3.0 | 2.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.4 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -12.6 | -13.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -10.5 | -11.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -9.5 | -10.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -8.5 | -9.1 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| | -7.0 | -7.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -5.0 | -5.6 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -3.0 | -3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | 0.0 | -0.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 3.0 | 2.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.5 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.7 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## [50Hz]

**Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -12.6 | -13.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | -10.5 | -11.0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| | -9.5 | -10.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| | -8.5 | -9.1 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | -7.0 | -7.6 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -5.0 | -5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -3.0 | -3.7 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | 0.0 | -0.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 3.0 | 2.2 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.1 | 6.1 | 6.1 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 6.9 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.1 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

# 6.2 60Hz

## 6.2.1 Cooling Capacity

### FXA-L

**[60Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. 14.0°CWB 20°CDB | | 16.0°CWB 23°CDB | | 18.0°CWB 26°CDB | | 19.0°CWB 27°CDB | | 20.0°CWB 28°CDB | | 22.0°CWB 30°CDB | | 24.0°CWB 32°CDB | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 1.9 |
| | 12.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 1.9 |
| | 14.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 16.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 18.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 20.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 21.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.9 | 2.0 |
| | 23.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 25.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 27.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.8 | 2.0 |
| | 29.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 31.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 33.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.7 | 1.9 |
| | 35.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.6 | 2.0 | 2.6 | 1.9 |
| | 37.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 2.0 | 2.6 | 1.9 |
| | 39.0 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.9 | 2.2 | 1.9 | 2.3 | 1.9 | 2.5 | 2.0 | 2.5 | 1.9 |
| 25 | 10.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 12.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 14.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 16.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 18.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 20.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 21.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.2 | 3.7 | 2.3 |
| | 23.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.6 | 2.4 |
| | 25.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.6 | 2.3 |
| | 27.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 29.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.5 | 2.3 |
| | 31.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.4 | 3.4 | 2.3 |
| | 33.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.4 | 2.2 |
| | 35.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.2 | 3.3 | 2.3 | 3.3 | 2.2 |
| | 37.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.3 | 2.2 |
| | 39.0 | 1.9 | 1.9 | 2.3 | 2.1 | 2.6 | 2.2 | 2.8 | 2.2 | 3.0 | 2.3 | 3.2 | 2.3 | 3.2 | 2.2 |
| 32 | 10.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 12.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.8 |
| | 14.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.9 |
| | 16.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.9 |
| | 18.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.9 |
| | 20.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.9 |
| | 21.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.9 |
| | 23.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.7 | 2.9 |
| | 25.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.6 | 2.9 |
| | 27.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.5 | 2.8 |
| | 29.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.5 | 2.8 |
| | 31.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.9 | 4.4 | 2.8 |
| | 33.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.3 | 2.8 | 4.3 | 2.7 |
| | 35.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.2 | 2.8 | 4.3 | 2.7 |
| | 37.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.1 | 2.8 | 4.2 | 2.7 |
| | 39.0 | 2.5 | 2.3 | 2.9 | 2.5 | 3.4 | 2.6 | 3.6 | 2.7 | 3.8 | 2.7 | 4.1 | 2.8 | 4.2 | 2.7 |
| 40 | 10.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.9 | 3.6 |
| | 12.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.9 | 3.6 |
| | 14.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.9 | 3.6 |
| | 16.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.9 | 3.6 |
| | 18.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.9 | 3.6 |
| | 20.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.9 | 3.6 |
| | 21.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.9 | 3.6 |
| | 23.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.8 | 3.6 |
| | 25.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.7 | 3.5 |
| | 27.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.7 | 3.5 |
| | 29.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.6 | 5.6 | 3.5 |
| | 31.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.5 | 3.4 |
| | 33.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.3 | 3.7 | 5.4 | 3.4 |
| | 35.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.2 | 3.6 | 5.4 | 3.3 |
| | 37.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.2 | 3.6 | 5.3 | 3.3 |
| | 39.0 | 3.1 | 3.0 | 3.7 | 3.4 | 4.2 | 3.7 | 4.5 | 3.5 | 4.8 | 3.6 | 5.1 | 3.6 | 5.2 | 3.3 |

## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.3 | 4.4 |
| | 12.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.3 | 4.4 |
| | 14.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.3 | 4.4 |
| | 16.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.3 | 4.4 |
| | 18.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.3 | 4.4 |
| | 20.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.3 | 4.5 |
| | 21.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.3 | 4.5 |
| | 23.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.3 | 4.4 |
| | 25.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.2 | 4.4 |
| | 27.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.4 | 7.1 | 4.3 |
| | 29.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.5 | 7.0 | 4.3 |
| | 31.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.5 | 6.9 | 4.2 |
| | 33.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.6 | 4.5 | 6.8 | 4.2 |
| | 35.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.3 | 6.5 | 4.4 | 6.7 | 4.1 |
| | 37.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.4 | 6.4 | 4.4 | 6.6 | 4.1 |
| | 39.0 | 3.9 | 3.3 | 4.6 | 3.7 | 5.3 | 4.1 | 5.6 | 4.2 | 5.9 | 4.4 | 6.3 | 4.4 | 6.5 | 4.1 |
| 63 | 10.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.3 | 5.3 |
| | 12.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.3 | 5.3 |
| | 14.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.3 | 5.4 |
| | 16.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.3 | 5.4 |
| | 18.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.3 | 5.4 |
| | 20.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.3 | 5.4 |
| | 21.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.3 | 5.4 |
| | 23.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.5 | 9.2 | 5.4 |
| | 25.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.6 | 9.1 | 5.4 |
| | 27.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.6 | 8.9 | 5.3 |
| | 29.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.6 | 8.8 | 5.2 |
| | 31.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.6 | 8.7 | 5.2 |
| | 33.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.4 | 5.7 | 8.6 | 5.1 |
| | 35.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.3 | 5.6 | 8.4 | 5.1 |
| | 37.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.4 | 8.1 | 5.6 | 8.3 | 5.0 |
| | 39.0 | 4.9 | 4.2 | 5.8 | 4.7 | 6.7 | 5.2 | 7.1 | 5.3 | 7.5 | 5.5 | 8.0 | 5.5 | 8.2 | 5.0 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2.2 Heating capacity

### FXA-L

**[60Hz]** **Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -12.6 | -13.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -10.5 | -11.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -9.5 | -10.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -8.5 | -9.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -7.0 | -7.6 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -5.0 | -5.6 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | -3.0 | -3.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 0.0 | -0.7 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 3.0 | 2.2 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -12.6 | -13.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -10.5 | -11.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -9.5 | -10.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -8.5 | -9.1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -7.0 | -7.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -5.0 | -5.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -3.0 | -3.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 0.0 | -0.7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 3.0 | 2.2 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -12.6 | -13.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -10.5 | -11.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -9.5 | -10.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -8.5 | -9.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -7.0 | -7.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | -5.0 | -5.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| | -3.0 | -3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 0.0 | -0.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 3.0 | 2.2 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.5 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -12.6 | -13.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -10.5 | -11.0 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| | -9.5 | -10.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -8.5 | -9.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -7.0 | -7.6 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| | -5.0 | -5.6 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| | -3.0 | -3.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 0.0 | -0.7 | 4.8 | 4.8 | 4.8 | 4.8 | 4.6 | 4.2 |
| | 3.0 | 2.2 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.6 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## [60Hz]

**Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | -12.6 | -13.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | -10.5 | -11.0 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -9.5 | -10.0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| | -8.5 | -9.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -7.0 | -7.6 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | -5.0 | -5.6 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.3 |
| | -3.0 | -3.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 0.0 | -0.7 | 6.0 | 6.0 | 6.0 | 6.0 | 5.8 | 5.3 |
| | 3.0 | 2.2 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 7.0 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 7.2 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | -12.6 | -13.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -10.5 | -11.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | -9.5 | -10.0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -8.5 | -9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -7.0 | -7.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| | -5.0 | -5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | -3.0 | -3.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.8 |
| | 0.0 | -0.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.4 | 6.8 |
| | 3.0 | 2.2 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.9 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 9.2 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW



Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

# 7. Electric Characteristics

| Units | | | | | Power supply | | IFM | | Input(W) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Type | Hz | Volts | Voltage range | MCA | MFA | kW | FLA | Cooling | Heating |
| FXA20L | VE VEC | 50 | 220-240 | MAX. 264 Min. 198 | 0.3 | 15 | 0.040 | 0.2 | 16 | 24 |
| FXA25L | | | | | 0.4 | 15 | 0.040 | 0.3 | 22 | 27 |
| FXA32L | | | | | 0.4 | 15 | 0.040 | 0.3 | 27 | 32 |
| FXA40L | VE | | | | 0.4 | 15 | 0.043 | 0.3 | 20 | 20 |
| FXA50L | | | | | 0.4 | 15 | 0.043 | 0.3 | 27 | 32 |
| FXA63L | | | | | 0.6 | 15 | 0.043 | 0.5 | 50 | 60 |
| FXA20L | VE | 60 | 220 | MAX. 242 Min. 198 | 0.3 | 15 | 0.040 | 0.2 | 16 | 24 |
| FXA25L | | | | | 0.3 | 15 | 0.040 | 0.2 | 22 | 27 |
| FXA32L | | | | | 0.4 | 15 | 0.040 | 0.3 | 27 | 32 |
| FXA40L | VE | | | | 0.4 | 15 | 0.043 | 0.3 | 20 | 20 |
| FXA50L | | | | | 0.4 | 15 | 0.043 | 0.3 | 27 | 32 |
| FXA63L | | | | | 0.6 | 15 | 0.043 | 0.5 | 50 | 60 |
| FXAQ20M | VE | 50 | 220-240 | MAX. 264 Min. 198 | 0.3 | 15 | 0.040 | 0.2 | 16 | 24 |
| FXAQ25M | | | | | 0.4 | 15 | 0.040 | 0.3 | 22 | 27 |
| FXAQ32M | | | | | 0.4 | 15 | 0.040 | 0.3 | 27 | 32 |
| FXAQ40M | VE | | | | 0.4 | 15 | 0.043 | 0.3 | 20 | 20 |
| FXAQ50M | | | | | 0.4 | 15 | 0.043 | 0.3 | 27 | 32 |
| FXAQ63M | | | | | 0.6 | 15 | 0.043 | 0.5 | 50 | 60 |
| FXAQ20M | VE | 60 | 220 | MAX. 242 Min. 198 | 0.3 | 15 | 0.040 | 0.2 | 16 | 24 |
| FXAQ25M | | | | | 0.3 | 15 | 0.040 | 0.2 | 22 | 27 |
| FXAQ32M | | | | | 0.4 | 15 | 0.040 | 0.3 | 27 | 32 |
| FXAQ40M | VE | | | | 0.4 | 15 | 0.043 | 0.3 | 20 | 20 |
| FXAQ50M | | | | | 0.4 | 15 | 0.043 | 0.3 | 27 | 32 |
| FXAQ63M | | | | | 0.6 | 15 | 0.043 | 0.5 | 50 | 60 |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
kW : Fan Motor Rated Output(kW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

Note:

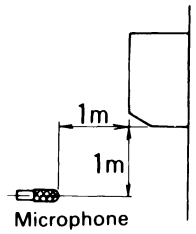
1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA/MFA
   MCA = 1.25 X FLA
   MFA ≦ 4 X FLA
   (Next lower standard fuse rating. Min. 15A)
4. Select wire size based on the MCA.
5. Instead of fuse, use Circuit Breaker.

4D034907C

# 8. Sound Levels

## Overall

■ **Wall Mounted Type**




(V0477)

**Notes:**

1. The operating conditions are assumed to be standard (JIS conditions)
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

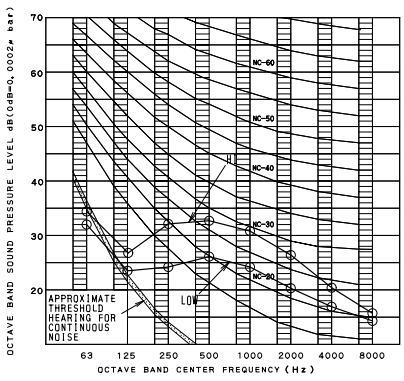
(220/240V) dBA

| Model | 50/60Hz | |
|---|---|---|
| | H | L |
| FXA20L | 35 | 29 |
| FXA25L | 36 | 29 |
| FXA32L | 37 | 29 |
| FXA40L | 39 | 34 |
| FXA50L | 42 | 36 |
| FXA63L | 46 | 39 |

## Octave Band Level

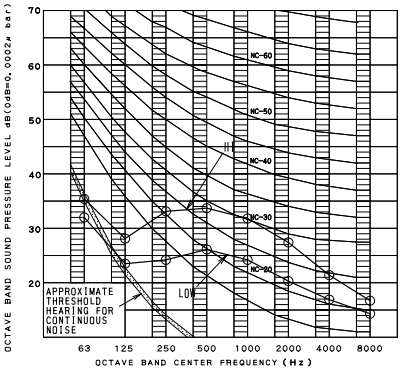
○——○ 220, 240V

**FXA20LVE**



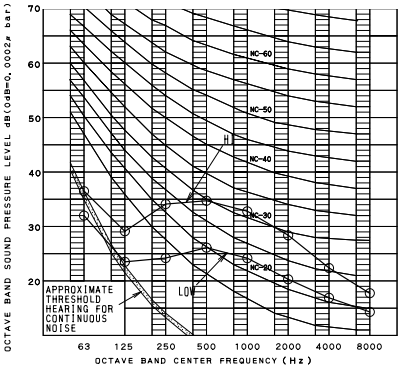

4D037087

**FXA25LVE**



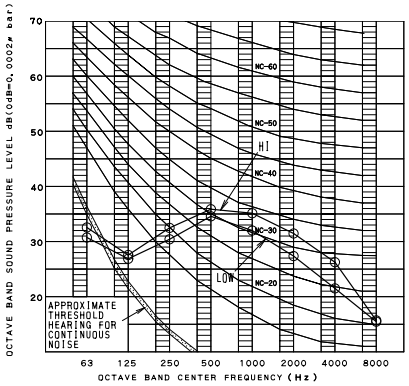

4D037088

**FXA32LVE**



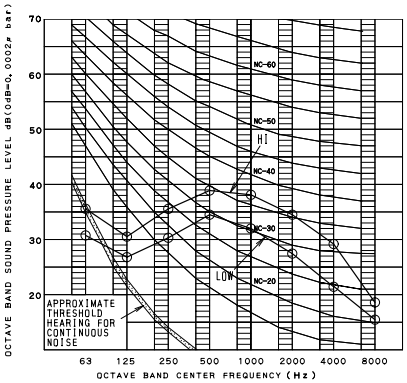

4D037089

**FXA40LVE**



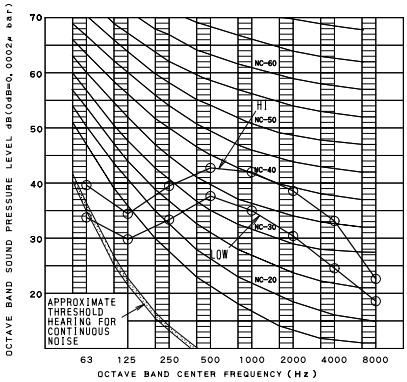

4D038513

**FXA50LVE**




4D038514

**FXA63LVE**




4D038515

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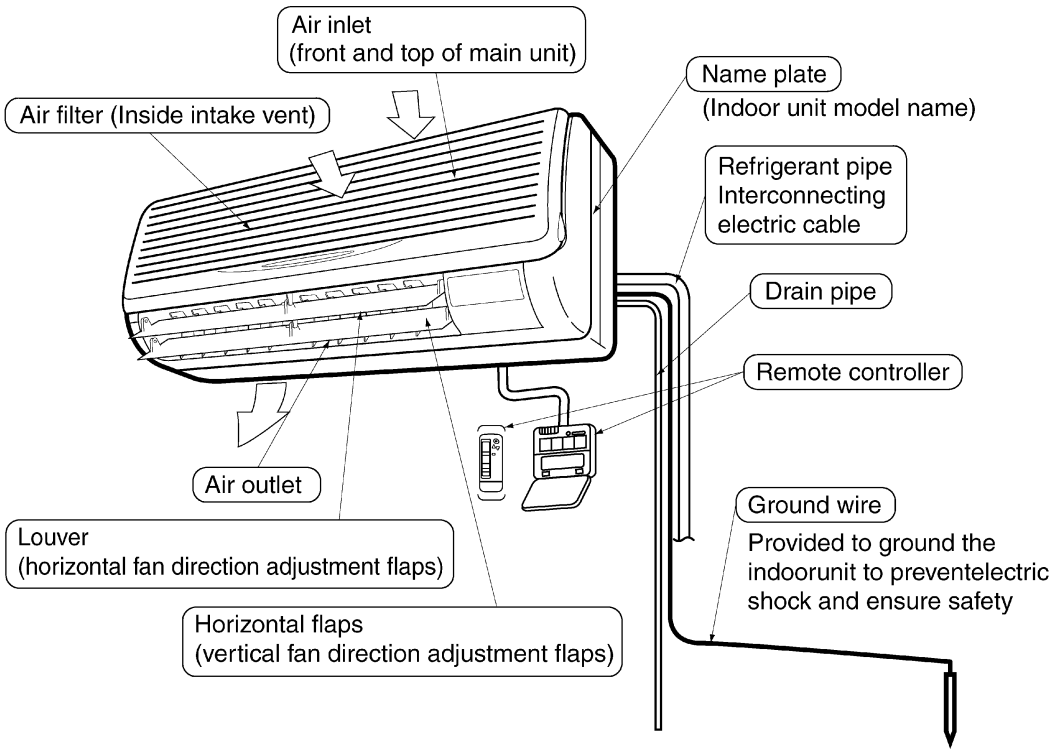
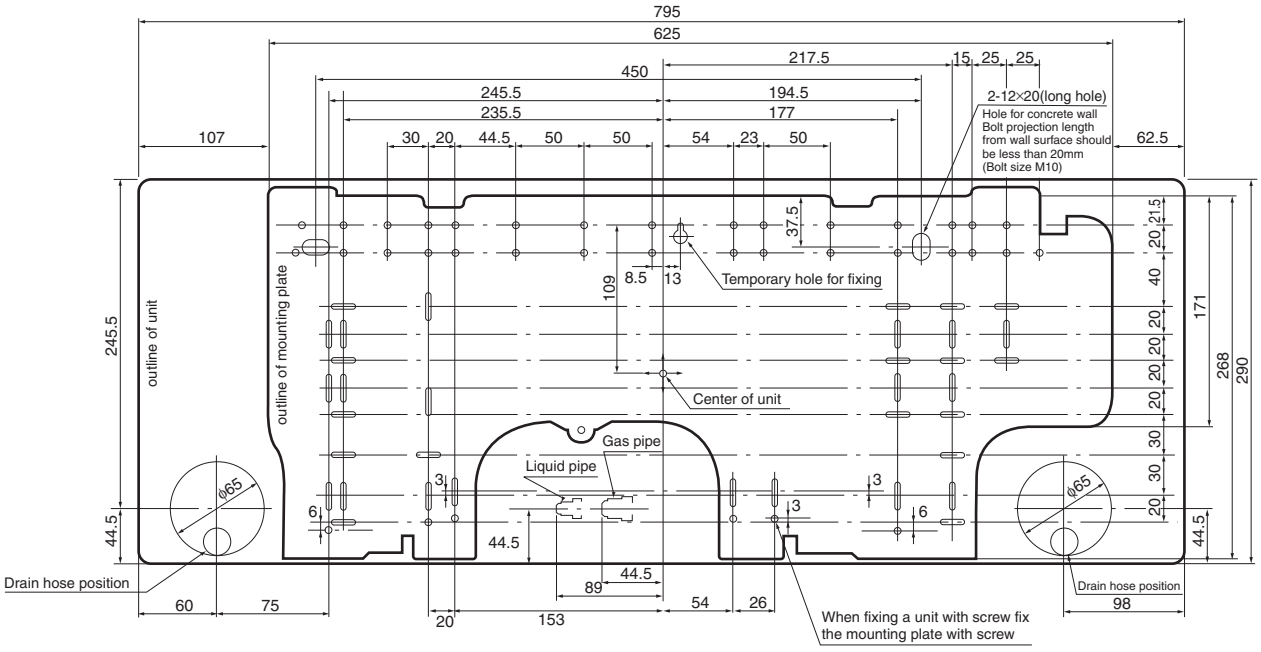
# 9. Installation

### Installation Example

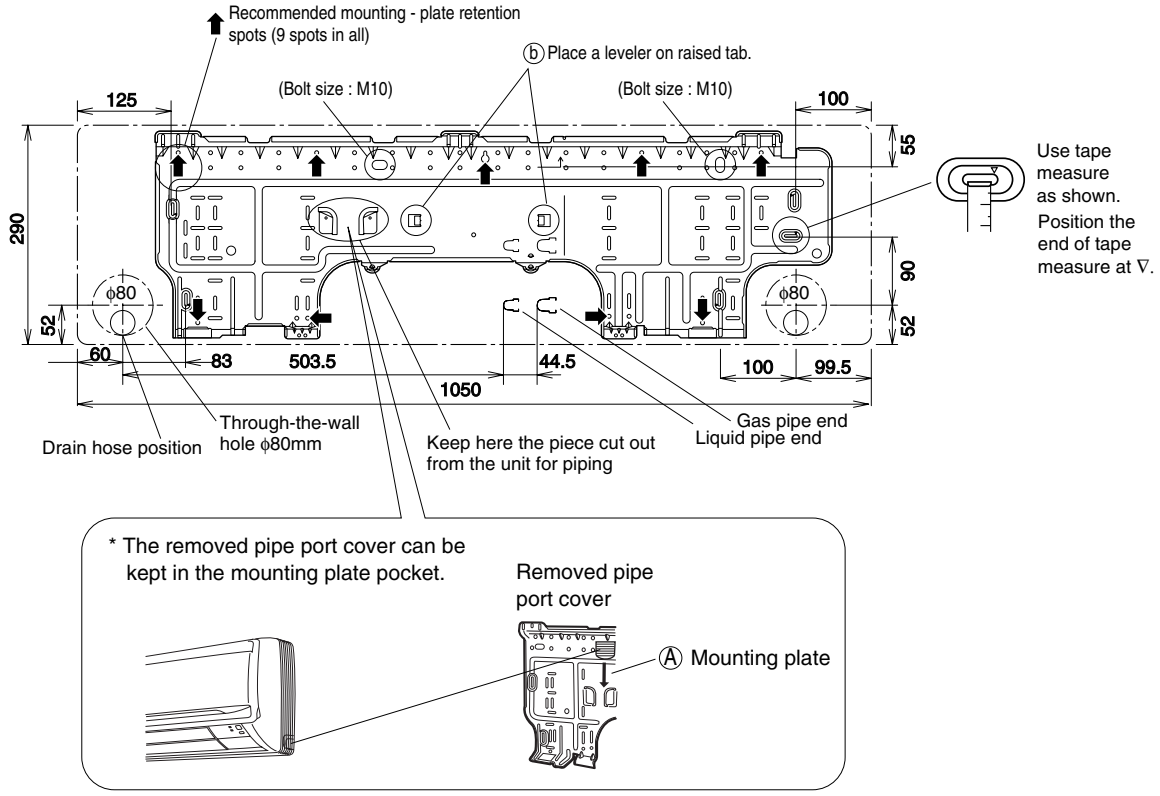



### Recommended mounting-plate retention spots and Dimensions
### 20.25.32 class




1P079690-1A

### 40.50.63 class




2P095003-1B

11

## Service Space

**(1) Select an installation site where the following conditions are fulfilled and that meets with your customer's approval.**

- In the upper space (including the back of the ceiling) of the indoor unit where there is no possible dripping of water from the refrigerant pipe, drain pipe, water pipe, etc.
- Where the wall is strong enough to bear the indoor unit weight.
- Where sufficient clearance for installation and maintenance can be ensured. **(Refer to Fig. 1 and Fig. 2)**
- Where optimum air distribution can be ensured.
- Where nothing blocks the air passage.
- Where condensate can be properly drained.
- Where the wall is not significantly tilted.
- Where not exposed to combustible gases.
- Where pipe between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual of the outdoor unit.)
- Install the indoor and outdoor units, power cable and transmission wiring, at least 1 m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)
- Install the indoor unit no less than 2.5 m above the floor. Where unavoidably lower, take what measures are necessary to keep hands out of the air inlet.
- Where the cool (warm) air reaches all across the room.

[ Space required for installation (mm) ]

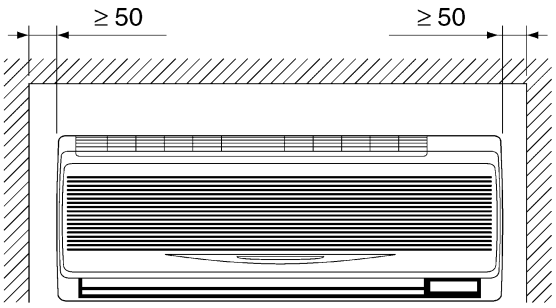



**Fig. 1**

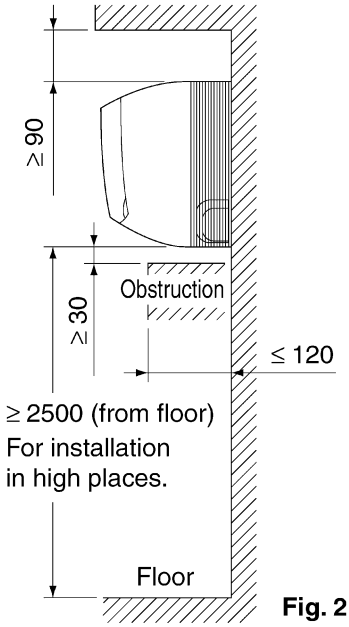



**Fig. 2**

**(2) Consider whether the place where the unit will be installed can support the full weight of the unit, and reinforce it with boards and beams, etc. if needed before proceeding with the installation. Also, reinforce the place to prevent vibration and noise before installing. (The installation pitch can be found on the paper pattern for installation (3), so refer to it when considering the necessity for reinforcing the location.)**

**(3) The indoor unit may not be directly installed on the wall. Use the attached installation panel (1) before installing the unit.**

3PN01417-6R-5

## Installation

**(1) Open the piping through-hole.**

- The refrigerant pipe and drain pipe can be passed out in one of 6 directions: left, bottom-left, back-left, right, bottom-right, and back-right. **(Refer to Fig. 3)**
- Using the paper pattern for installation (3), choose where to pass the piping out and open a through-hole (ϕ80) in the wall.
  Open the hole so that there is a downward slope for the drain piping. (See "DRAIN PIPING WORK")

**(2) Remove the installation panel (1) from the unit and attach to the wall.**
(The installation panel is temporarily attached to the unit with screw. (In case of 20-32 type))
**(Refer to Fig. 3)**

(a) Check the location for the hole using the included paper pattern for installation (3).
- Choose a location so that there is at least a 90 mm gap between the ceiling and the main unit.

(b) Temporarily attach the installation panel (1) at the temporary-securing position on the paper pattern for installation (3) and use a level to make sure the drain hose is either level or tilted slightly downward.

(c) Secure the installation panel (1) to the wall using either screws or bolts.
- If using the attachment screws for the installation panel (2), attach using at least 4 screws on either side (for a total of 8 screws (20-32 type), 9 screws (40-63 type)) of the recommended installation cleat position on the included paper pattern for installation (3).
- If using bolts, attach using a M8 - M10 bolt (for a total of 2 bolts) on either side.
- If dealing with concrete, use commercially available foundation bolts (M8 - M10).

**(3) If using the left, bottom-left, right, or bottom-right positions for the piping, cut out the through-hole for the piping in the front grill. (Refer to Fig. 4)**

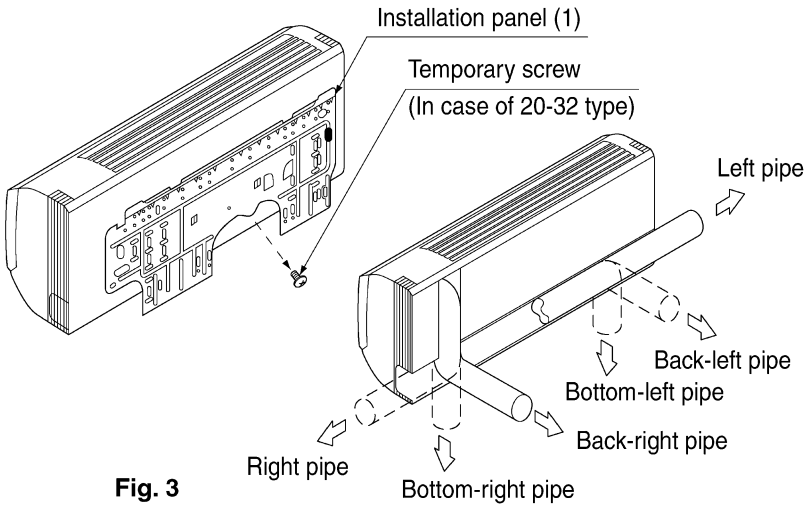



Fig. 3

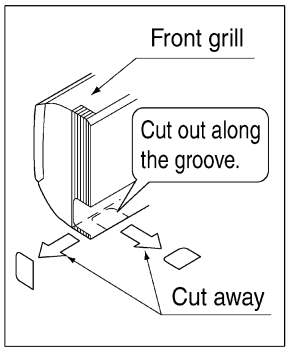



Fig. 4

**(4) Remove the front panel and the service lid. (Refer to Fig. 5)**

**< How to remove the front panel and service lid >**

(1) Open the front panel to the point where it stops.

(2) Push the axes on either side of the front panel towards the center of the main unit and remove. (You can also remove it by sliding the front panel either to the left or right and pulling it forward.)

(3) Remove the screw from the service lid and pull the handle forward.

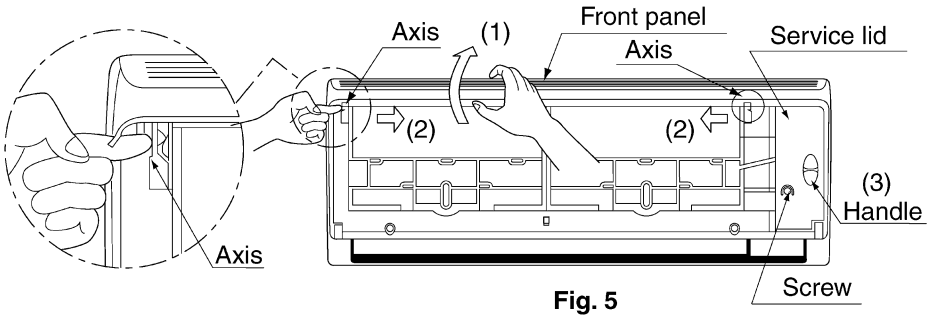



Fig. 5

3PN01417-6R-6

**(5) Point the pipe in the direction it will be passed out.**

**For right, bottom-right, and back-right piping (Refer to Fig. 6)**

- Wrap the drain hose and the refrigerant piping together with the insulating tape (4) so that the drain hose is below the refrigerant piping.

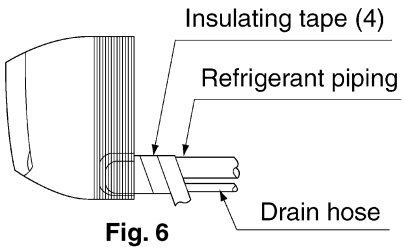



Fig. 6

**For left, bottom-left, and left-back piping**

- Remove the front grill. **(Refer to Fig. 7)**

**< How to remove the front grill >**

Remove the front grill as described below when securing the indoor unit with screws or when attaching Optional Accessories (wireless remote controller, adapter PC board, etc.).

(1) Remove the front panel.

(2) Remove the screws (2 places in case of FXA(Q)20,25,32 type/3 places in case of FXA(Q)40,50,63 type) securing the front grill.

(3) Remove the tabs (3 places) securing the front grill by pushing them in the direction of the arrows.

(4) Making sure not to catch the horizontal flaps, remove the front grill by pulling in the direction of the arrow.

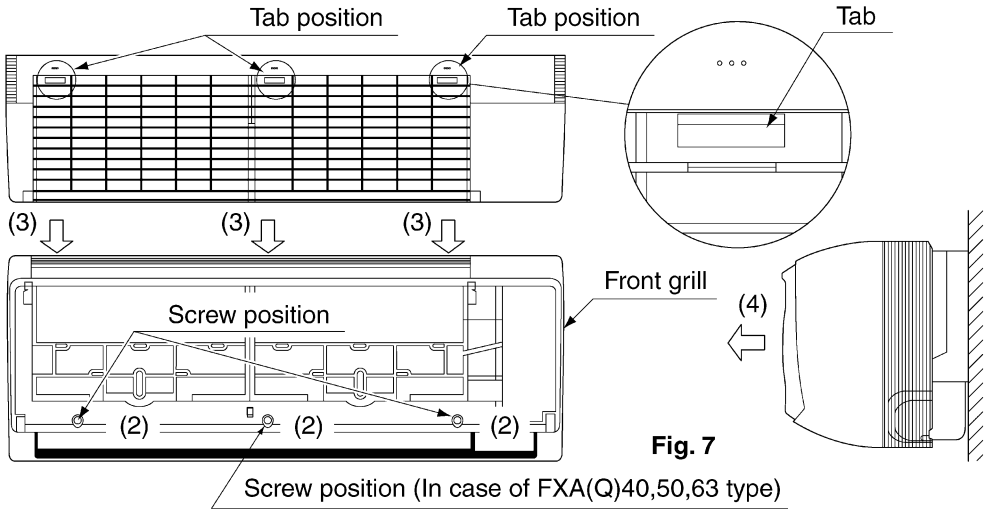



Fig. 7

- Remove the drain plug, the insulation tubing, and the drain hose from the drain pan and replace. **(Refer to Fig. 8)**
- Connect the local refrigerant piping ahead of time, matching it to the liquid pipe and gas pipe marks engraved on the installation panel (1).

**< Replacing the drain hose and drain plug >**

(1) Remove the drain plug and insulation tubing.
(2) Remove the drain hose and replace onto the left side.
(3) Replace the drain plug and the insulation tubing onto the right side.

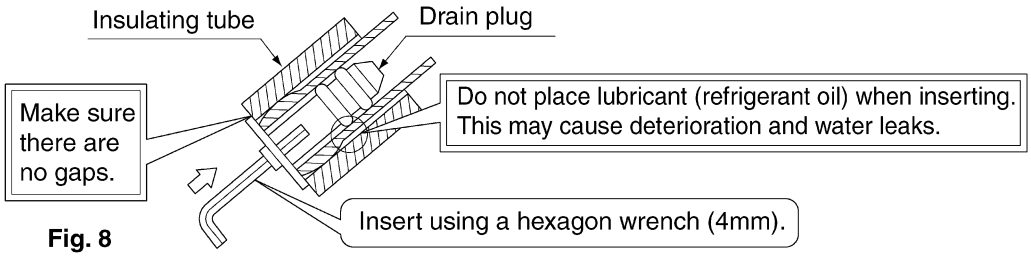



Fig. 8

3PN01417-6R-7

**(6) Hook the indoor unit onto the installation panel. (Refer to Fig. 9)**

- Placing buffering material between the wall and the indoor unit at this time will make work easier.

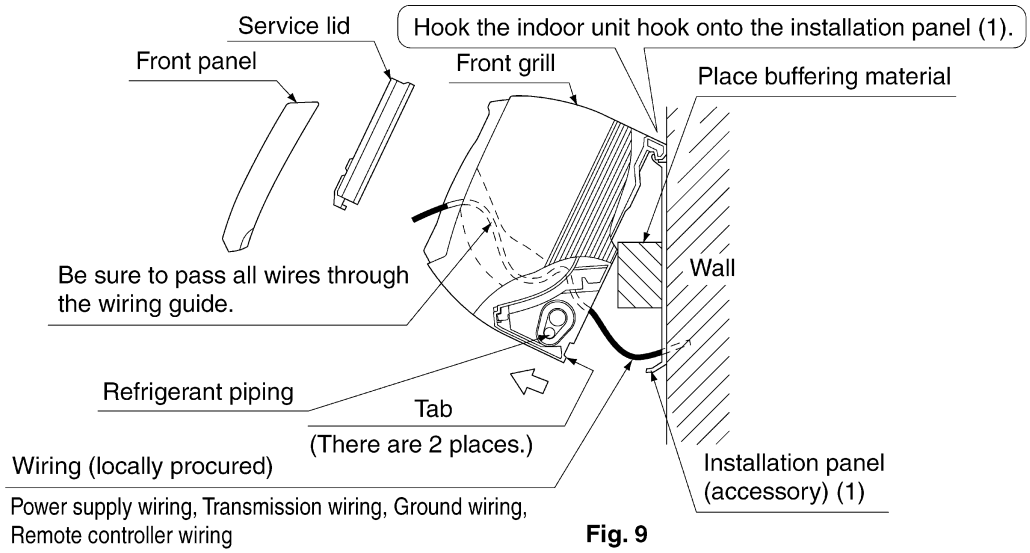



**Fig. 9**

**For right, bottom-right, and back-right piping**

- Pass the drain hose and the refrigerant piping to the wall.

**(7) Pass power supply wiring, transmission wiring, ground wiring, and remote controller wiring through the wiring guide in through the back of the indoor unit and to the front.**

**(8) Connect the piping. (See Fig. 10)**

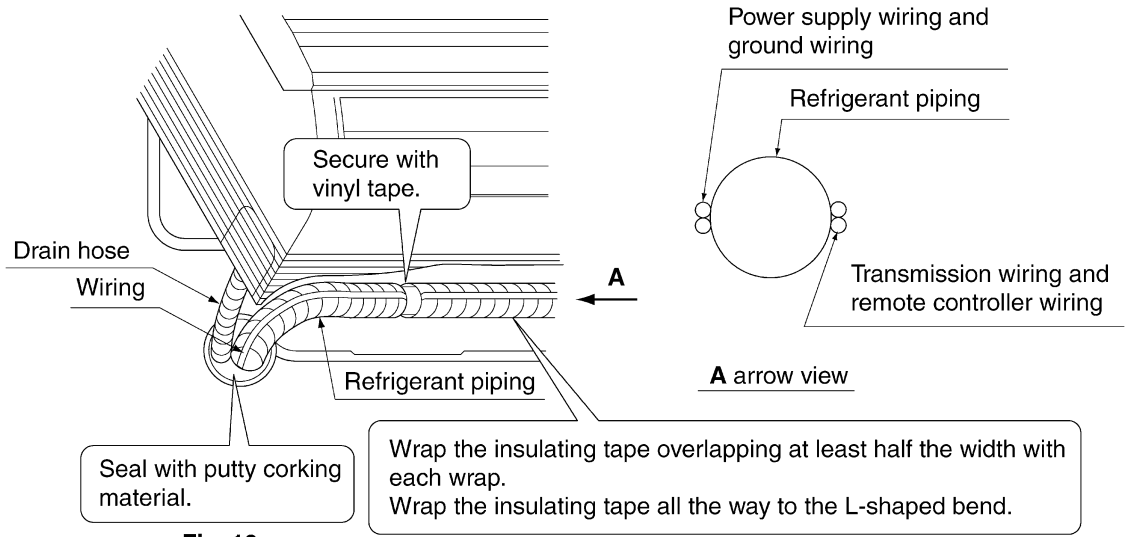



**Fig. 10**

- To avoid the influence of noise from the power supply line on the transmission wiring and the remote controller wiring, these wirings must be kept as far as possible from the power/ground wirings. As shown in the figure, keep the power supply wiring and the ground wiring together. Keep the transmission and remote controller wirings together and route them maintaining a good distance from the power supply/ground wirings (that is, on the other side of the power supply/ground wirings). Then, fix them securely on the refrigerant pipe.
- Seal the piping through-hole with putty corking material.

**(9) Push on both bottom edges of the indoor unit using both hands and hook the tab on the back of the indoor unit onto the installation panel (1). (Refer to Fig. 9)**

- At this time remove the buffering material placed in step (6).

3PN01417-6R-8

11

- Make sure power supply wiring, transmission wiring, ground wiring and remote controller wiring are not caught inside the indoor unit.

## ■ When screwing in the indoor unit

- Remove the front grill. **(Refer to Fig. 7)**
- Secure the indoor unit to the installation panel (1) with the securing screws (6). **(Refer to Fig. 11)**

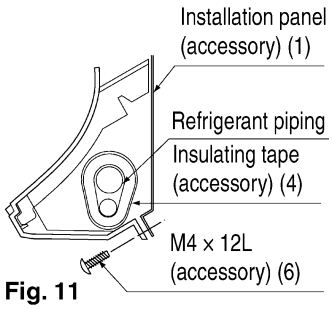



**Fig. 11**

3PN01417-6R-9

## Drain Piping Work

**(1) Install the drain piping. (Refer to Fig. 16)**

- The drain pipe should be short with a downward slope and should prevent air pockets from forming.
- Watch out for the points in the figure 16 when performing drain work.

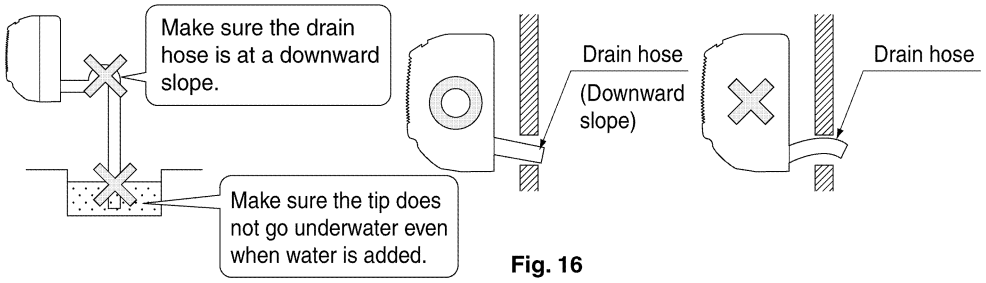



**Fig. 16**

- When extending the drain hose, use a commercially available drain extension hose, and be sure to insulate the extended section of the drain hose which is indoors. **(Refer to Fig. 17)**

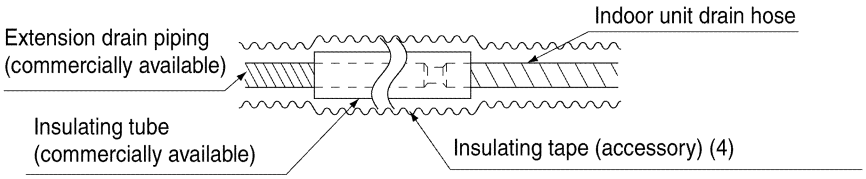



**Fig. 17**

- Make sure the diameter of the piping is the same as the piping (hard vinyl chloride, nominal diameter 13mm) or bigger.
- When directly connecting a hard vinyl chloride pipe joint (nominal diameter 13mm) to the drain hose connected to the indoor unit (i.e. for embedded piping, etc.), use a commercially available hard vinyl chloride pipe joint (nominal diameter 13mm). **(Refer to Fig. 18)**

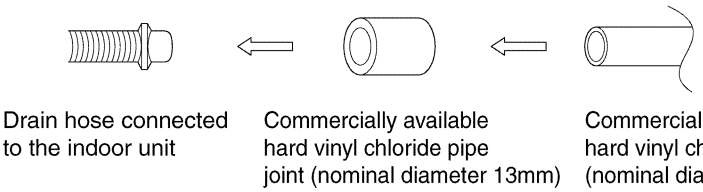



**Fig. 18**

**(2) Make sure the drain works properly.**

- After drain work is complete, perform a drain check by opening the front panel, **removing the air filter**, pouring water into the drain pan, and making sure water flows smoothly out of the drain hose. **(Refer to Fig. 19)**

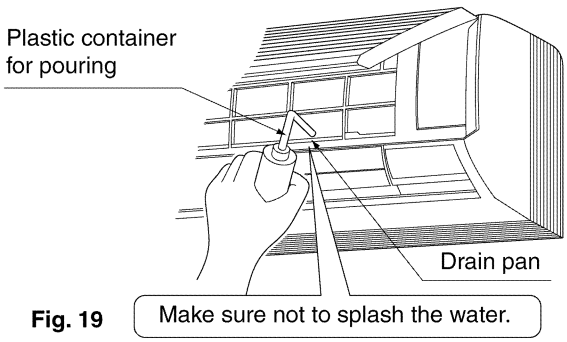



**Fig. 19**

**⚠ CAUTION**

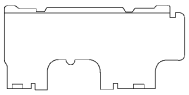
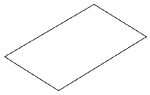
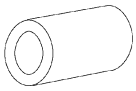
Drain piping connections
Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.
Keep in mind that it will become the cause of getting drain pipe blocked if water collects on drain pipe.

3PN01417-6R-11

# 10. Accessories

## Standard Accessories

**Check the following accessories are included with your unit.**

| Name | (1) Installation panel | (2) Attachment screws for the installation panel | (3) Paper pattern for installation | (4) Insulating tape |
|---|---|---|---|---|
| Quantity | 1 set | 8pcs.→FXA(Q)20·25·32 type<br>9pcs.→FXA(Q)40·50·63 type | 1 pc. | 1 pc. |
| Shape |  | <br>M4 × 25L |  |  |

| Name | (5) Clamp | (6) Securing screws | |
|---|---|---|---|
| Quantity | 1 large 3 small | 2 pcs. | |
| Shape | | <br>M4 × 12L | (Other)<br>Operation manual<br>Installation manual |

## Optional Accessories (For Unit)

| No. | Type / Item | FXA20L | FXA25L | FXA32L | FXA40L | FXA50L | FXA63L |
|---|---|---|---|---|---|---|---|
| 1 | Drain pump kit | K-KDU572BVE | | | | | |

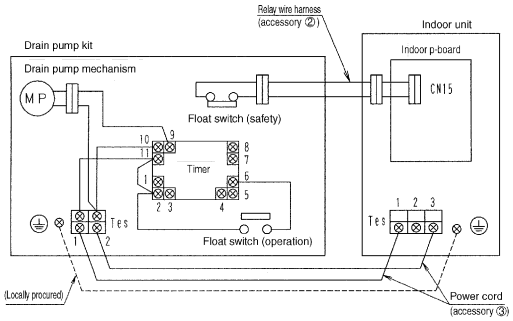
## Optional Accessories (For Controls) Refer to P484.

## Drain Pump Kit — K-KDU572BVE

### Specification

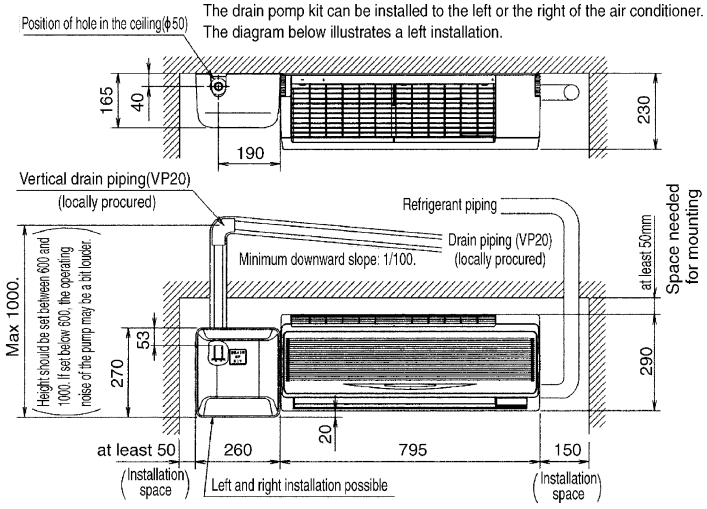
| | | | | |
|---|---|---|---|---|
| Main Applicable Models | 20·25·32·40·50·63 Class | | Drain entrance connection pipe diameter | VP20 |
| Drain up height (mm) | (Note 1) | 1,000 | Drain exit connection pipe diameter | VP20 |
| Drain up mechanism | Power source | single phase 200V,50/60Hz | Safety device | Float switch |
| | Power consumption | 12/11(W) | Operating noise (dB) | 25 |
| | Insulation | Type E | Product mass (kg) | 3.5 |

### Wiring Diagram



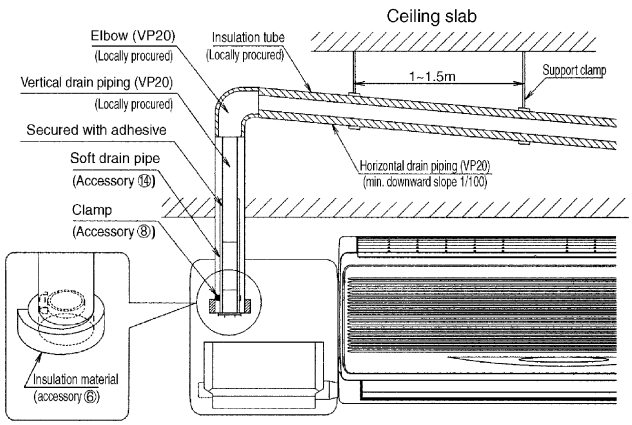

The earth wire (copper) should be at least 2.0㎟ or ϕ1.6mm.
When the float switch (safety) is connected, remove the CN15 short-circuit connector.

### External drawing of drain pump kit and Service space (In case of 20·25·32 Class)



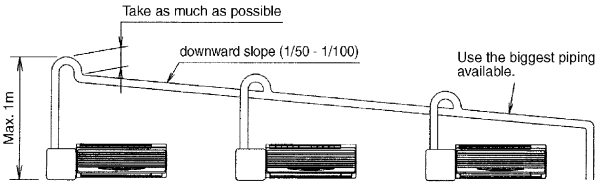

### Installation

Caution
- Exit piping parts must be procured locally.
- Be sure to insulate the drain piping.
- Give the horizontal sections on the drain piping a downward slope of at least 1/100 and make sure no air bubbles accumulate.
- Secure long horizontal sections with support clamps to prevent them from shaking.




When using centralized piping

- Follow the figure below to make sure there is absolutely no back-up when using centralized piping.




11

# FXL-L / FXN-L
# Floor Standing Type / Concealed Floor Standing Type

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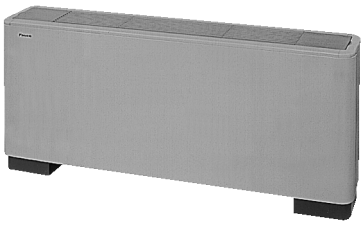
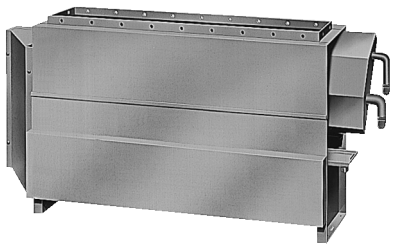
# 1. Features

Efficient for perimeter zone airconditioning.



FXL-L

Can be built into pericounter



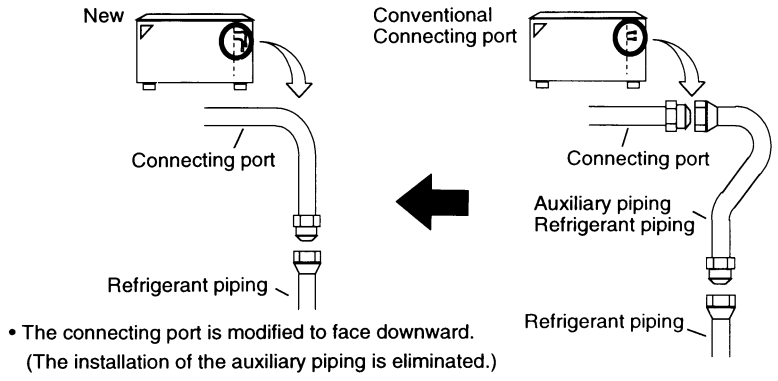
FXN-L

## (1) New round-shape adds the gentle feeling to office environment.

- Mild color is applied to the discharge grille and the bottom frame.
- The slimming top plate ensures elegance in dynamics.

## (2) Improvement on the installation

- The piping connection work is facilitated drastically.

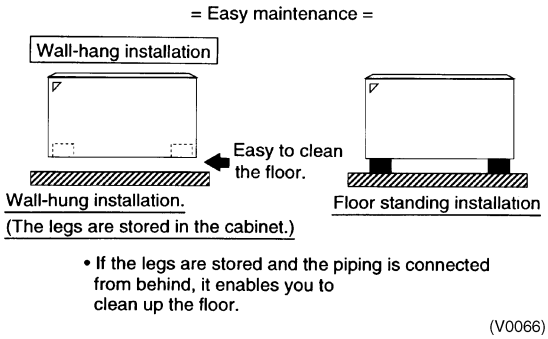



(V0065)

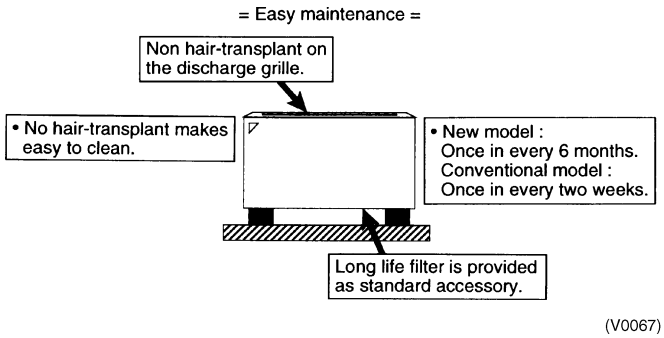
## (3) Easy maintenance

When the unit is hung on the wall, it is easy to clean the floor. (Exposed type)

- The maintenance of the discharge grille is improved.
- The interval of filter cleaning is prolonged.




(V0066)




(V0067)

## (4) Environment friendly packing

- No Styrofoam is used.
- Material saving packing.

# 2. Specifications

## 2.1 FXL

### Floor Standing Type

| Model | | | FXL20LVE | FXL25LVE | FXL32LVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 2,000 | 2,500 | 3,150 |
| | | Btu/h | 7,900 | 9,900 | 12,500 |
| | | kW | 2.3 | 2.9 | 3.7 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 2.2 | 2.8 | 3.6 |
| ★3 Heating Capacity | | kcal/h | 2,200 | 2,800 | 3,400 |
| | | Btu/h | 8,500 | 10,900 | 13,600 |
| | | kW | 2.5 | 3.2 | 4.0 |
| Casing Color | | | Ivory White (5Y7.5/1) | Ivory White (5Y7.5/1) | Ivory White (5Y7.5/1) |
| Dimensions: (H×W×D) | | mm | 600×1,000×222 | 600×1,000×222 | 600×1,140×222 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×14×1.5 | 3×14×1.5 | 3×14×1.5 |
| | Face Area | m² | 0.159 | 0.159 | 0.200 |
| Fan | Model | | D14B20 | D14B20 | 2D14B13 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 15×1 | 15×1 | 25×1 |
| | Air Flow Rate (H/L) | m³/min | 7/6 | 7/6 | 8/6 |
| | | cfm | 247/212 | 247/212 | 282/212 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Fiber/ Urethane Foam | Glass Fiber/ Urethane Foam | Glass Fiber/ Urethane Foam |
| Air Filter | | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) |
| | Drain Pipe | mm | ϕ21 O.D (Vinyl Chloride) | ϕ21 O.D (Vinyl Chloride) | ϕ21 O.D (Vinyl Chloride) |
| Machine Weight | | kg | 25 | 25 | 30 |
| ★5 Sound Level (H/L) | | dBA | 35/32 | 35/32 | 35/32 |
| Safety Devices | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable Outdoor Unit | | | R22 : K or M Series R407C : K or L Series | R22 : K or M Series R407C : K or L Series | R22 : K or M Series R407C : K or L Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. |
| Drawing No. | | | 3D034576A | | |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 409 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

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## Floor Standing Type

| Model | | | FXL40LVE | FXL50LVE | FXL63LVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 4,000 | 5,000 | 6,300 |
| | | Btu/h | 15,900 | 19,900 | 25,000 |
| | | kW | 4.7 | 5.8 | 7.3 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 4.5 | 5.6 | 7.1 |
| ★3 Heating Capacity | | kcal/h | 4,300 | 5,400 | 6,900 |
| | | Btu/h | 17,000 | 21,500 | 27,300 |
| | | kW | 5.0 | 6.3 | 8.0 |
| Casing Color | | | Ivory White (5Y7.5/1) | Ivory White (5Y7.5/1) | Ivory White (5Y7.5/1) |
| Dimensions: (H×W×D) | | mm | 600×1,140×222 | 600×1,420×222 | 600×1,420×222 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×14×1.5 | 3×14×1.5 | 3×14×1.5 |
| | Face Area | $m^2$ | 0.200 | 0.282 | 0.282 |
| Fan | Model | | 2D14B13 | 2D14B20 | 2D14B20 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 25×1 | 35×1 | 35×1 |
| | Air Flow Rate (H/L) | $m^3$/min | 11/8.5 | 14/11 | 16/12 |
| | | cfm | 388/300 | 494/388 | 565/424 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Fiber/ Urethane Foam | Glass Fiber/ Urethane Foam | Glass Fiber/ Urethane Foam |
| Air Filter | | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) |
| | Drain Pipe | mm | ϕ21 O.D (Vinyl Chloride) | ϕ21 O.D (Vinyl Chloride) | ϕ21 O.D (Vinyl Chloride) |
| Machine Weight | | kg | 30 | 36 | 36 |
| ★5 Sound Level (H/L) | | dBA | 38/33 | 39/34 | 40/35 |
| Safety Devices | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable Outdoor Unit | | | R22 : K or M Series<br>R407C : K or L Series | R22 : K or M Series<br>R407C : K or L Series | R22 : K or M Series<br>R407C : K or L Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. |
| Drawing No. | | | 3D034576A | | |

### Notes:

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 409 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=$m^3$/min×35.3 |

## 2.2 FXN

### Concealed Floor Standing Type

| Model | | | FXN20LVE | FXN25LVE | FXN32LVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 2,000 | 2,500 | 3,150 |
| | | Btu/h | 7,900 | 9,900 | 12,500 |
| | | kW | 2.3 | 2.9 | 3.7 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 2.2 | 2.8 | 3.6 |
| ★3 Heating Capacity | | kcal/h | 2,200 | 2,800 | 3,400 |
| | | Btu/h | 8,500 | 10,900 | 13,600 |
| | | kW | 2.5 | 3.2 | 4.0 |
| Casing Color | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 610×930×220 | 610×930×220 | 610×1,070×220 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×14×1.5 | 3×14×1.5 | 3×14×1.5 |
| | Face Area | m² | 0.159 | 0.159 | 0.200 |
| Fan | Model | | D14B20 | D14B20 | 2D14B13 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 15×1 | 15×1 | 25×1 |
| | Air Flow Rate (H/L) | m³/min | 7/6 | 7/6 | 8/6 |
| | | cfm | 247/212 | 247/212 | 282/212 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Fiber/ Urethane Foam | Glass Fiber/ Urethane Foam | Glass Fiber/ Urethane Foam |
| Air Filter | | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) | ϕ6.4 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) | ϕ12.7 (Flare Connection) |
| | Drain Pipe | mm | ϕ21 O.D (Vinyl Chloride) | ϕ21 O.D (Vinyl Chloride) | ϕ21 O.D (Vinyl Chloride) |
| Machine Weight | | kg | 19 | 19 | 23 |
| ★5 Sound Level (H/L) | | dBA | 35/32 | 35/32 | 35/32 |
| Safety Devices | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable Outdoor Unit | | | R22 : K or M Series R407C : K or L Series | R22 : K or M Series R407C : K or L Series | R22 : K or M Series R407C : K or L Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. |
| Drawing No. | | | 3D034577A | | |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 409 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

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## Concealed Floor Standing Type

| Model | | | FXN40LVE | FXN50LVE | FXN63LVE |
|---|---|---|---|---|---|
| ★1 Cooling Capacity (19.5°CWB) | | kcal/h | 4,000 | 5,000 | 6,300 |
| | | Btu/h | 15,900 | 19,900 | 25,000 |
| | | kW | 4.7 | 5.8 | 7.3 |
| ★2 Cooling Capacity (19.0°CWB) | | kW | 4.5 | 5.6 | 7.1 |
| ★3 Heating Capacity | | kcal/h | 4,300 | 5,400 | 6,900 |
| | | Btu/h | 17,000 | 21,500 | 27,300 |
| | | kW | 5.0 | 6.3 | 8.0 |
| Casing Color | | | Galvanized Steel Plate | Galvanized Steel Plate | Galvanized Steel Plate |
| Dimensions: (H×W×D) | | mm | 610×1,070×220 | 610×1,350×220 | 610×1,350×220 |
| Coil (Cross Fin Coil) | Rows×Stages×Fin Pitch | mm | 3×14×1.5 | 3×14×1.5 | 3×14×1.5 |
| | Face Area | m² | 0.200 | 0.282 | 0.282 |
| Fan | Model | | 2D14B13 | 2D14B20 | 2D14B20 |
| | Type | | Sirocco Fan | Sirocco Fan | Sirocco Fan |
| | Motor Output × Number of Units | W | 25×1 | 35×1 | 35×1 |
| | Air Flow Rate (H/L) | m³/min | 11/8.5 | 14/11 | 16/12 |
| | | cfm | 388/300 | 494/388 | 565/424 |
| | Drive | | Direct Drive | Direct Drive | Direct Drive |
| Temperature Control | | | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating | Microprocessor Thermostat for Cooling and Heating |
| Sound Absorbing Thermal Insulation Material | | | Glass Fiber / Urethane Foam | Glass Fiber / Urethane Foam | Glass Fiber / Urethane Foam |
| Air Filter | | | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) | Resin Net (with Mold Resistant) |
| Piping Connections | Liquid Pipes | mm | ϕ6.4 (Flare Connection) | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipes | mm | ϕ12.7 (Flare Connection) | ϕ15.9 (Flare Connection) | ϕ15.9 (Flare Connection) |
| | Drain Pipe | mm | ϕ21 O.D (Vinyl Chloride) | ϕ21 O.D (Vinyl Chloride) | ϕ21 O.D (Vinyl Chloride) |
| Machine Weight | | kg | 23 | 27 | 27 |
| ★5 Sound Level (H/L) | | dBA | 38/33 | 39/34 | 40/35 |
| Safety Devices | | | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor | Fuse, Thermal Protector for Fan Motor |
| Refrigerant Control | | | Electronic Expansion Valve | Electronic Expansion Valve | Electronic Expansion Valve |
| Connectable Outdoor Unit | | | R22 : K or M Series R407C : K or L Series | R22 : K or M Series R407C : K or L Series | R22 : K or M Series R407C : K or L Series |
| Standard Accessories | | | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. | Operation Manual, Installation Manual, Insulation for Fitting, Drain Hose, Clamps, Screws, Washers, Level Adjustment Screw. |
| Drawing No. | | | 3D034577A | | |

### Notes:

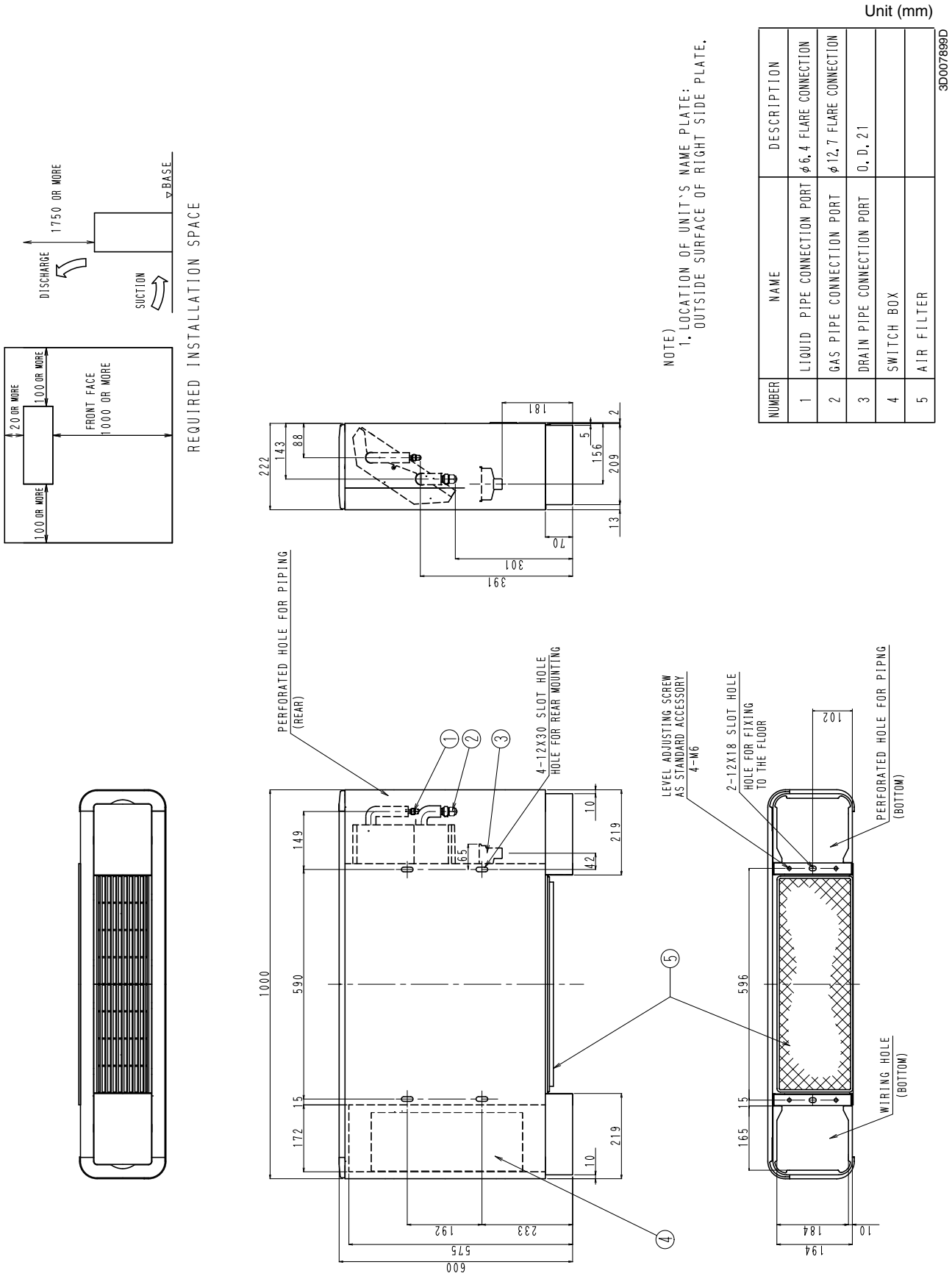
★1 Indoor temp. : 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★2 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
★3 Indoor temp. : 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length; 7.5m, level difference; 0m. (Heat pump only)
4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5 Operation sound is measured in an anechoic chamber.
6 Refer to page 409 for Fan Motor Input.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

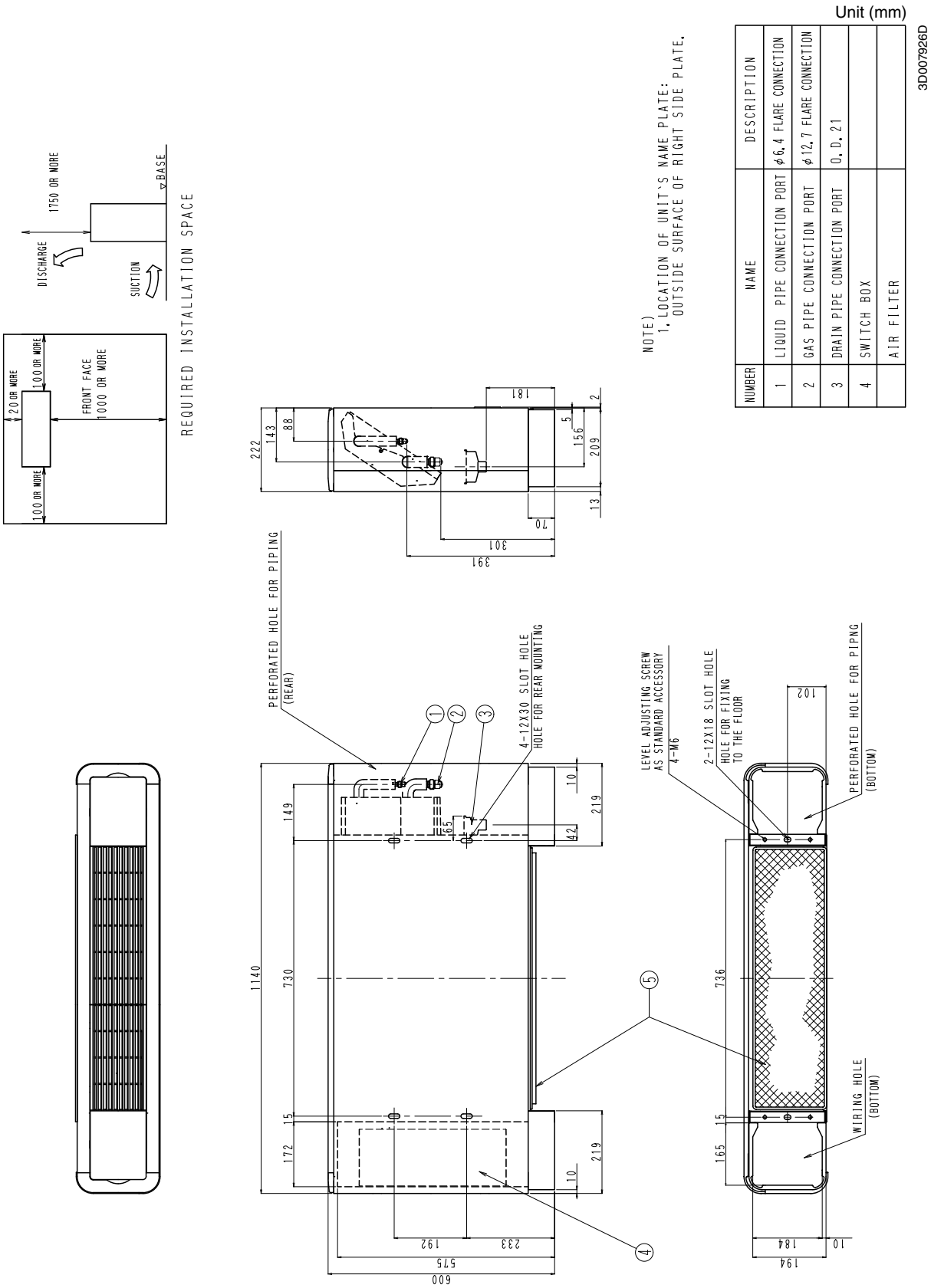
# 3. Dimensions

## 3.1 FXL

**FXL20L**
**FXL25L**



## FXL32L
## FXL40L



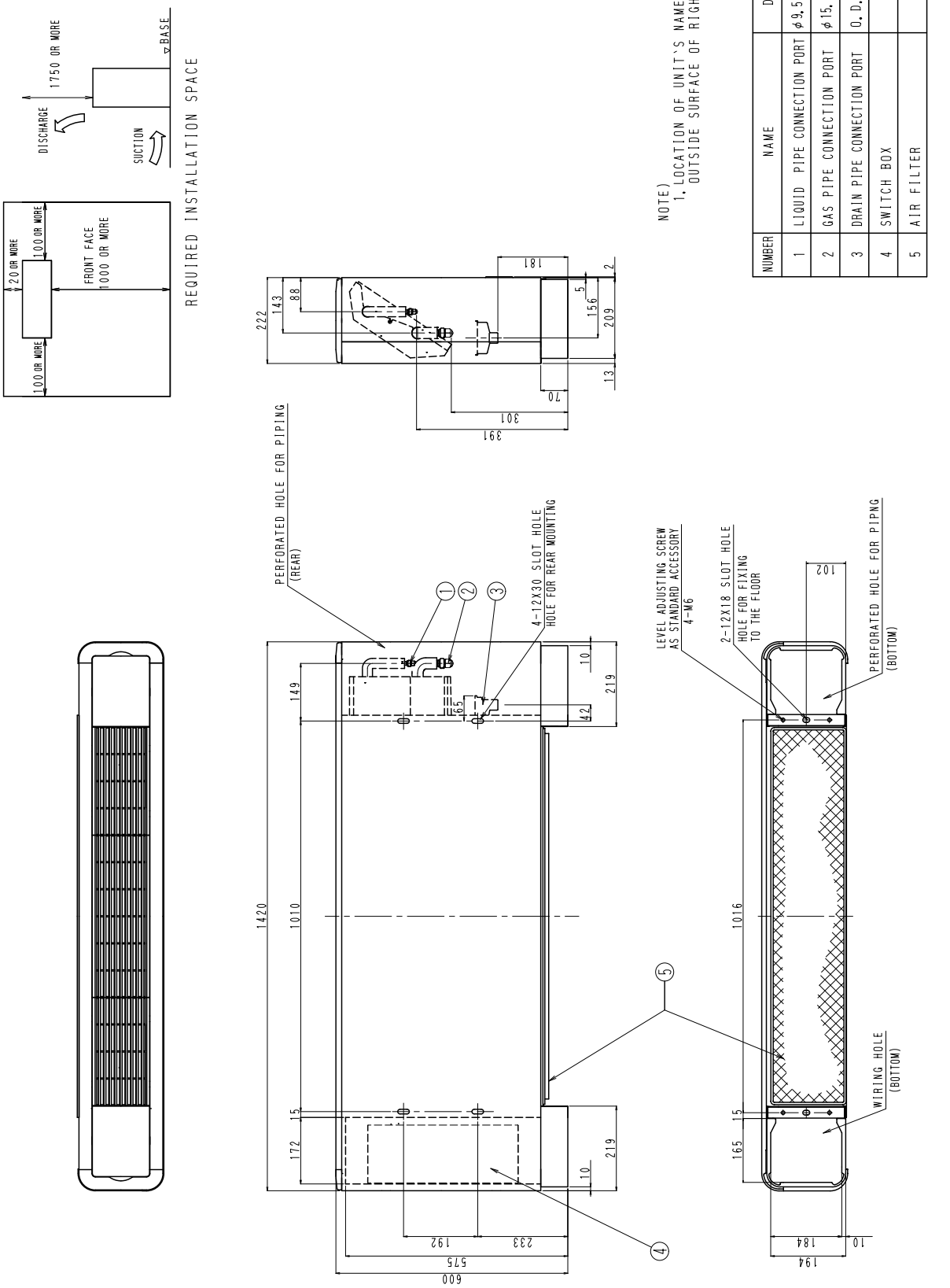
**FXL50L**
**FXL63L**

Unit (mm)

3D007927D

| NUMBER | NAME | DESCRIPTION |
|---|---|---|
| 1 | LIQUID PIPE CONNECTION PORT | φ9.5 FLARE CONNECTION |
| 2 | GAS PIPE CONNECTION PORT | φ15.9 FLARE CONNECTION |
| 3 | DRAIN PIPE CONNECTION PORT | O.D.21 |
| 4 | SWITCH BOX | |
| 5 | AIR FILTER | |

NOTE)
1. LOCATION OF UNIT'S NAME PLATE:
OUTSIDE SURFACE OF RIGHT SIDE PLATE.

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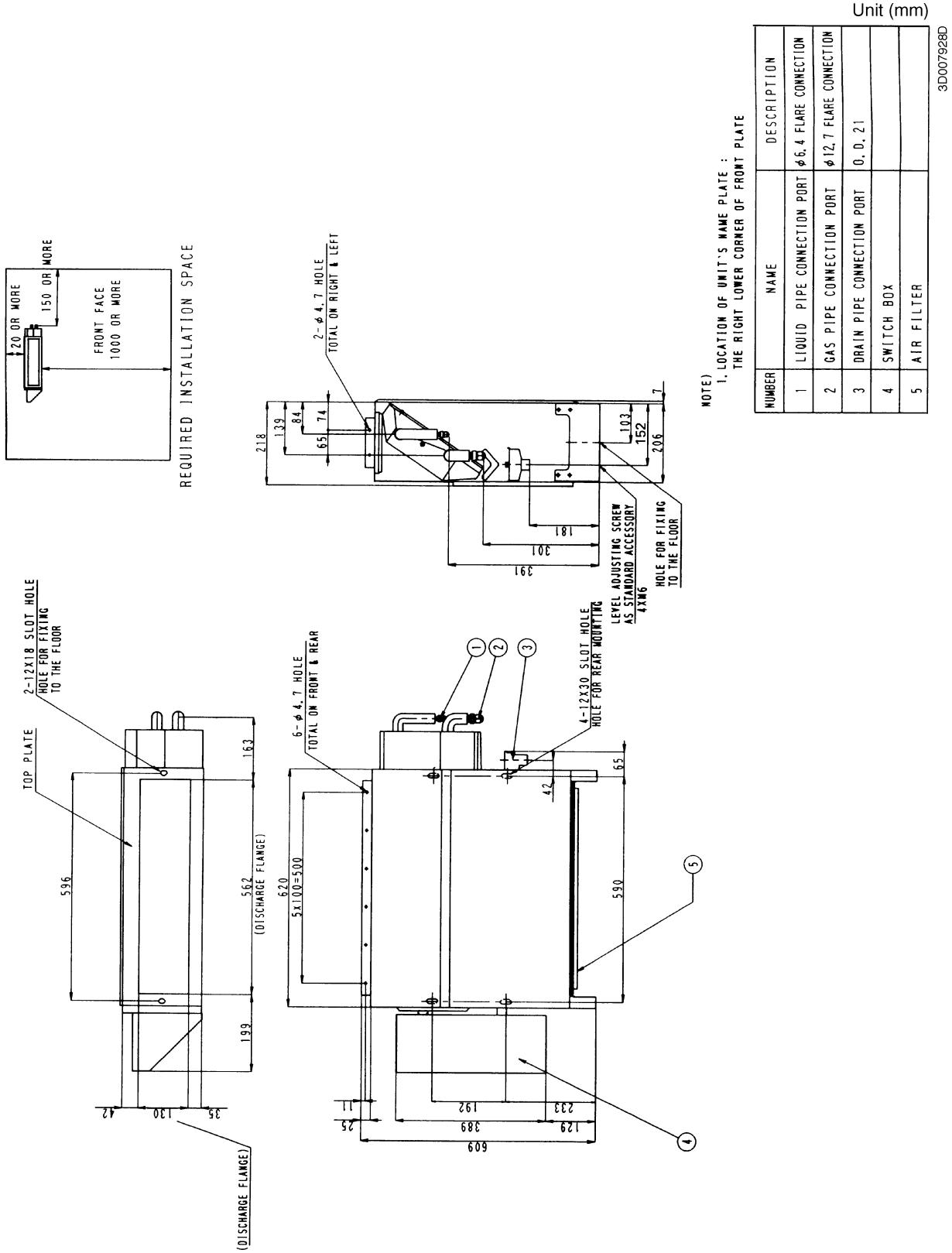
## 3.2 FXN

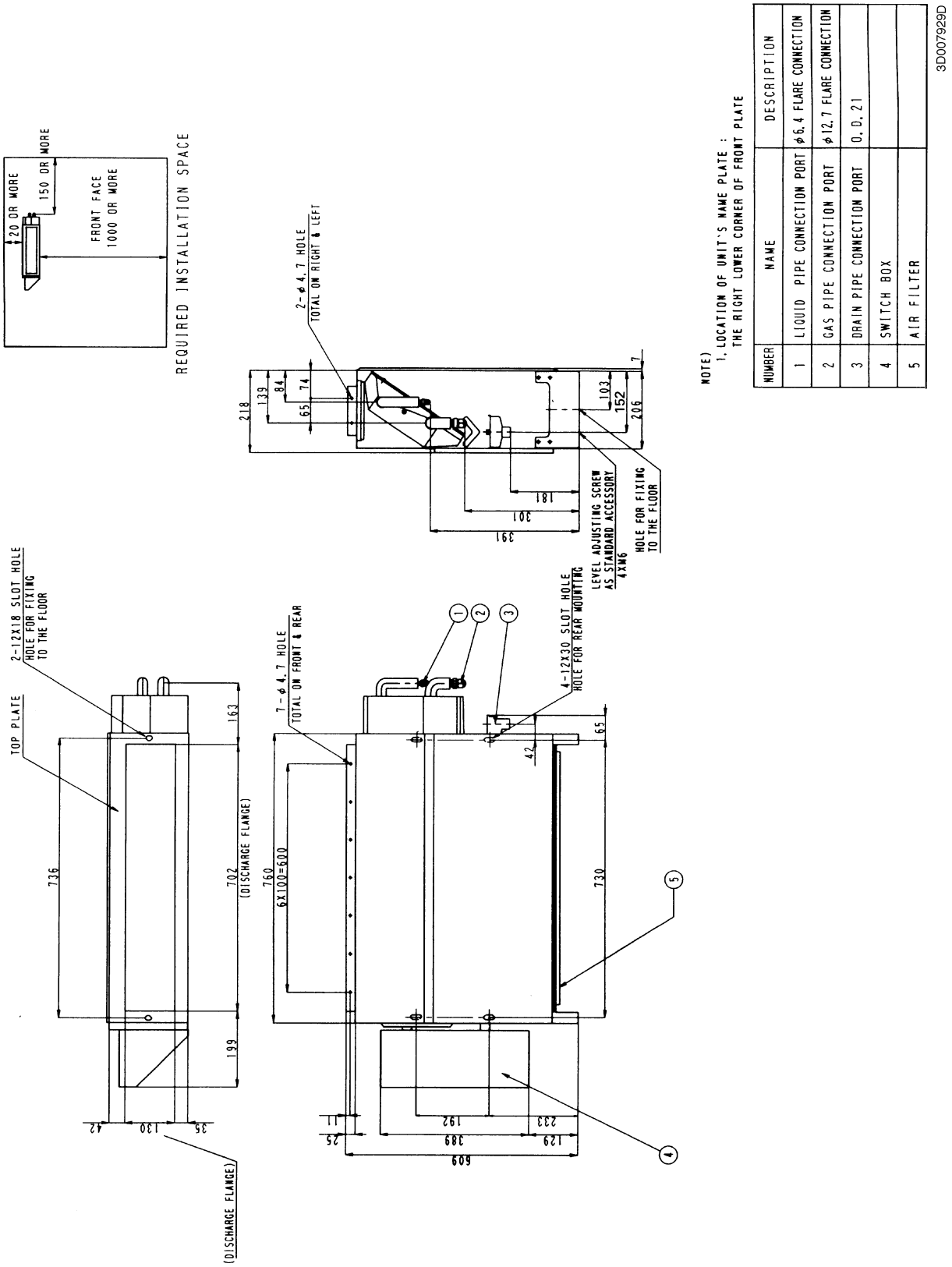
**FXN20L**
**FXN25L**

Unit (mm)



**FXN32L**
**FXN40L**

Unit (mm)




NOTE)
1. LOCATION OF UNIT'S NAME PLATE :
THE RIGHT LOWER CORNER OF FRONT PLATE

| NUMBER | NAME | DESCRIPTION |
|---|---|---|
| 1 | LIQUID PIPE CONNECTION PORT | φ6.4 FLARE CONNECTION |
| 2 | GAS PIPE CONNECTION PORT | φ12.7 FLARE CONNECTION |
| 3 | DRAIN PIPE CONNECTION PORT | O.D.21 |
| 4 | SWITCH BOX | |
| 5 | AIR FILTER | |

3D007929D

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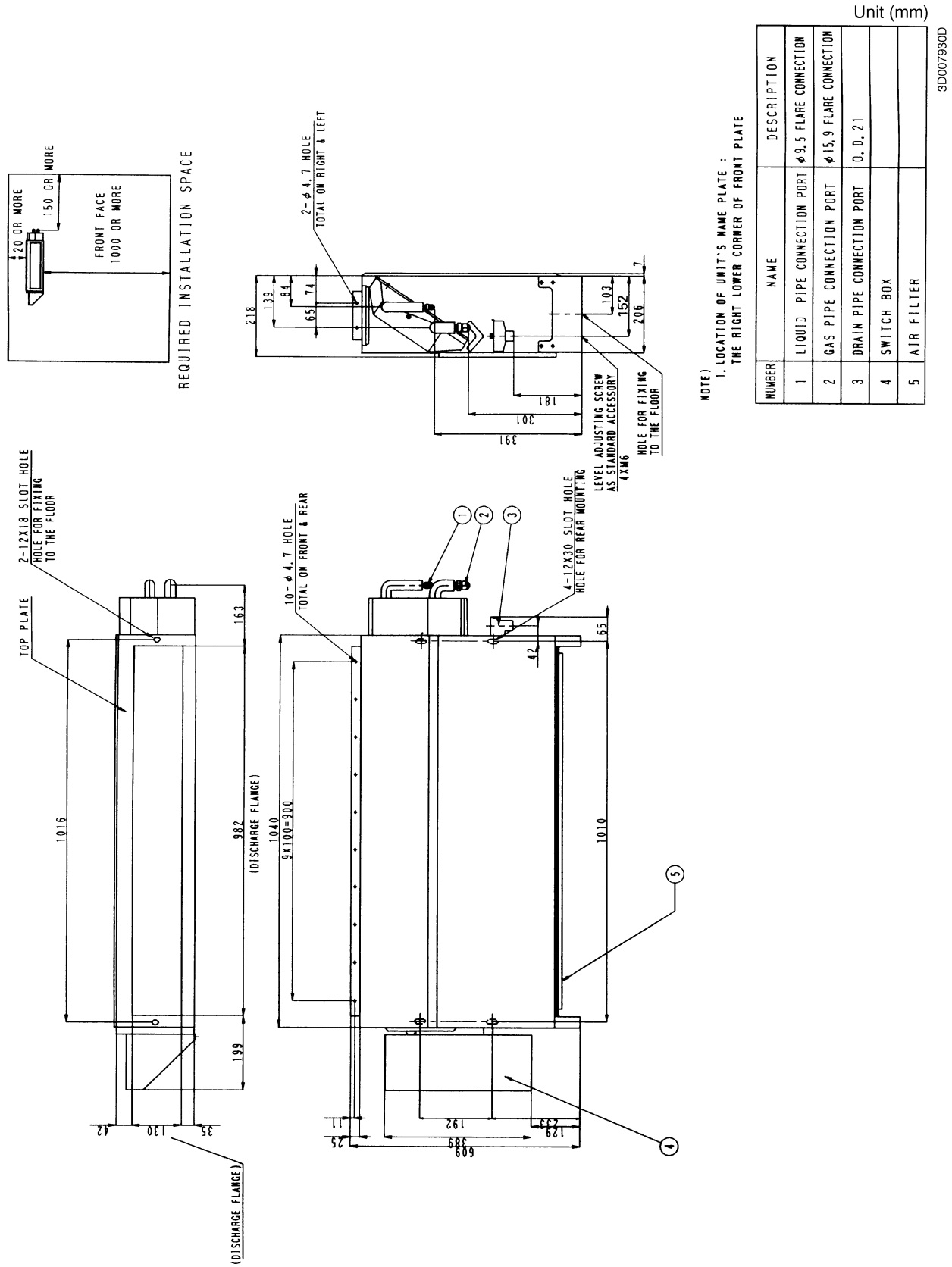
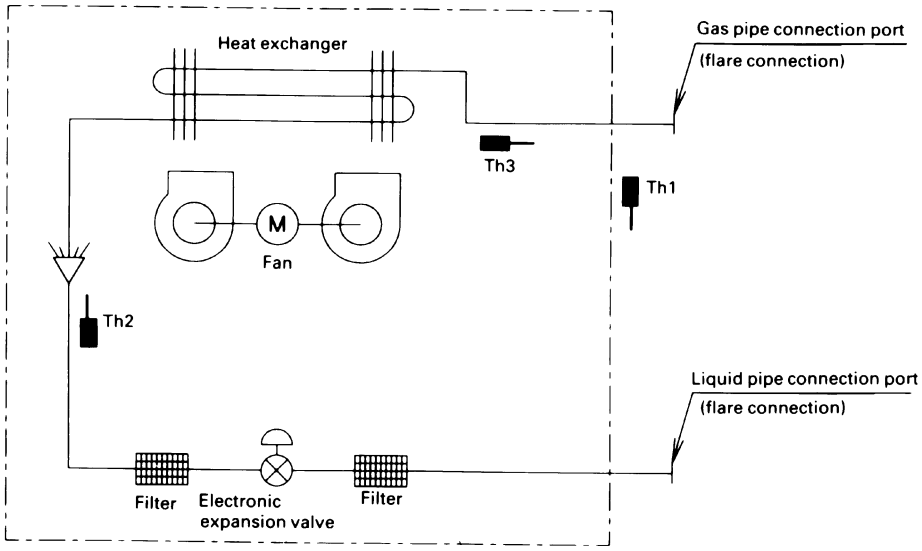
**FXN50L**
**FXN63L**



# 4. Piping Diagrams




Th1: Thermister for suction air temp.
Th2: Thermister for liquid line temp.
Th3: Thermister for gas line temp.

4D034245

■ **Refrigerant pipe connection port diameters**

(mm)

| Model | Gas | Liquid |
|---|---|---|
| FXL20L / 25L / 32L / 40L<br>FXN20L / 25L / 32L / 40L | ϕ12.7 | ϕ6.4 |
| FXL50L / 63L<br>FXN50L / 63L | ϕ15.9 | ϕ9.5 |

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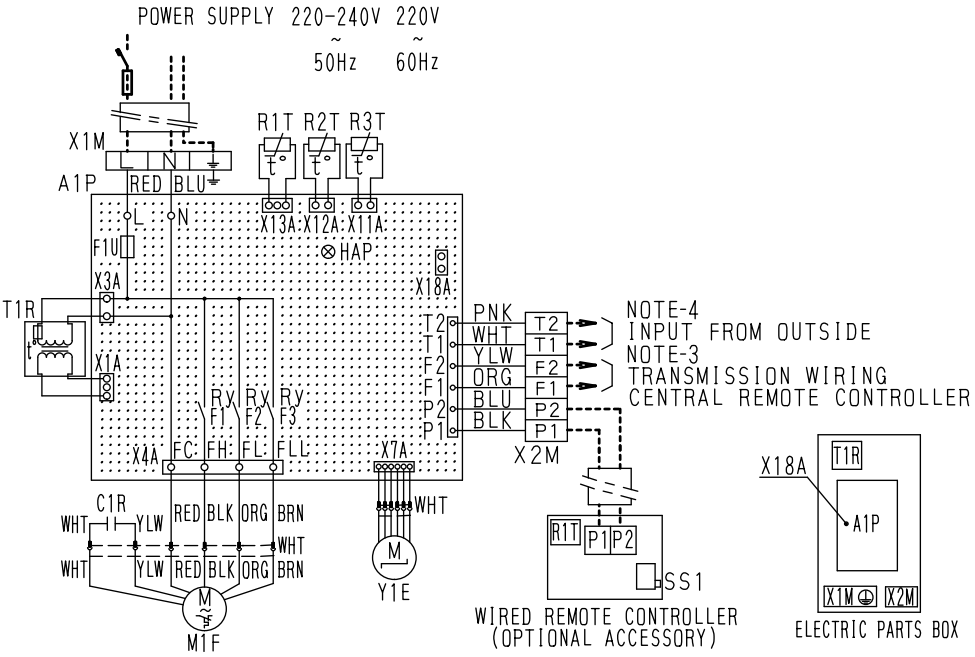
# 5. Wiring Diagrams

**FXL 20L / 25L / 32L / 40L / 50L / 63LVE**
**FXN 20L / 25L / 32L / 40L / 50L / 63LVE**




NOTES)

1. ▭▭:TERMINAL, ⊙⊙, ⊐⊏:CONNECTOR, —○—:WIRE CLAMP
2. ----:FIELD WIRING
3. IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTRUCTIO MANUAL.
4. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. IN DETAILS, REFER TO THE INSTALLATION MANUAL ATTACHED THE UNIT.
5. SYMBOLS SHOW AS FOLLOWS. (PNK:PINK WHT:WHITE YLW:YELLOW ORG:ORANGE BLU:BLUE BLK:BLACK RED:RED BRN:BROWN)
6. USE COPPER CONDUCTORS ONLY.

| | | | |
|---|---|---|---|
| A1P | PRINTED CIRCUIT BOARD | X2M | TERMINAL STRIP(CONTROL) |
| C1R | CAPACITOR (M1F) | Y1E | ELECTRONIC EXPANSION VALVE |
| F1U | FUSE(250V,10A,Ⓑ) OR F10T 250V | WIRED REMOTE CONTROLLER | |
| | | R1T | THERMISTOR(AIR) |
| | | SS1 | SELECTOR SWITCH(MAIN/SUB) |
| HAP | LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN) | CONNECTOR FOR OPTIONAL PARTS | |
| | | X18A | CONNECTOR(WIRING ADAPTOR FOR ELECTORICAL APPENDICES) |
| M1F | MOTOR (INDOOR FAN) | | |
| Q1F | THERMO SWITCH (M1F EMBEDDED) | | |
| R1T | THERMISTOR(AIR) | | |
| R2T・3T | THERMISTOR(COIL) | | |
| RyF1-3 | MAGNETIC RELAY(M1F) | | |
| T1R | TRANSFOMER(220-240V/22V) | | |
| X1M | TERMINAL STRIP(POWER) | | |
| L-RED | N-BLUE | | |

3D034183A

# 6. Capacity Tables

## 6.1 50Hz

### 6.1.1 Cooling Capacity

**FXL – L / FXN – L**

**[50Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. 14.0°CWB 20°CDB | | 16.0°CWB 23°CDB | | 18.0°CWB 26°CDB | | 19.0°CWB 27°CDB | | 20.0°CWB 28°CDB | | 22.0°CWB 30°CDB | | 24.0°CWB 32°CDB | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.9 | 1.8 |
| | 12.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.8 | 1.7 |
| | 14.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.8 | 1.7 |
| | 16.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.8 | 1.7 |
| | 18.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.7 | 1.7 |
| | 20.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.7 | 1.6 |
| | 21.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.7 | 1.6 |
| | 23.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.6 | 1.6 |
| | 25.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.5 | 1.7 | 2.6 | 1.6 |
| | 27.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.5 | 1.7 | 2.6 | 1.6 |
| | 29.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.5 | 1.7 | 2.5 | 1.6 |
| | 31.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.7 | 2.5 | 1.6 |
| | 33.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.4 | 1.7 | 2.5 | 1.6 |
| | 35.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.4 | 1.6 | 2.4 | 1.5 |
| | 37.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.7 | 2.3 | 1.6 | 2.4 | 1.5 |
| | 39.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.2 | 1.7 | 2.3 | 1.6 | 2.3 | 1.5 |
| 25 | 10.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.7 | 2.1 |
| | 12.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.6 | 2.1 |
| | 14.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.6 | 2.1 |
| | 16.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.5 | 2.0 |
| | 18.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.5 | 2.0 |
| | 20.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.4 | 2.0 |
| | 21.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.4 | 2.0 |
| | 23.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.4 | 1.9 |
| | 25.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.3 | 2.0 |
| | 27.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.0 | 3.3 | 1.9 |
| | 29.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.0 | 3.2 | 1.9 |
| | 31.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.0 | 3.2 | 1.9 |
| | 33.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.1 | 2.0 | 3.1 | 1.9 |
| | 35.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.1 | 3.0 | 2.0 | 3.1 | 1.9 |
| | 37.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.0 | 3.0 | 2.0 | 3.0 | 1.8 |
| | 39.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 2.9 | 2.0 | 2.9 | 2.0 | 3.0 | 1.8 |
| 32 | 10.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.6 |
| | 12.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.6 | 2.6 |
| | 14.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.6 | 2.6 |
| | 16.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.5 | 2.5 |
| | 18.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.5 | 2.5 |
| | 20.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.4 | 2.5 |
| | 21.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.4 | 2.4 |
| | 23.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.2 | 2.6 | 4.3 | 2.4 |
| | 25.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.2 | 2.5 | 4.3 | 2.4 |
| | 27.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.1 | 2.5 | 4.2 | 2.4 |
| | 29.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.0 | 2.5 | 4.1 | 2.4 |
| | 31.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.0 | 2.5 | 4.1 | 2.4 |
| | 33.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 3.9 | 2.4 | 4.0 | 2.3 |
| | 35.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.5 | 3.9 | 2.4 | 4.0 | 2.3 |
| | 37.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.7 | 2.5 | 3.8 | 2.4 | 3.9 | 2.3 |
| | 39.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.7 | 2.5 | 3.8 | 2.4 | 3.8 | 2.3 |
| 40 | 10.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.3 |
| | 12.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.8 | 3.2 |
| | 14.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.7 | 3.2 |
| | 16.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.6 | 3.2 |
| | 18.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.6 | 3.1 |
| | 20.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.5 | 3.1 |
| | 21.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.5 | 3.1 |
| | 23.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.2 | 5.4 | 3.0 |
| | 25.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.2 | 3.2 | 5.3 | 3.0 |
| | 27.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.1 | 3.1 | 5.2 | 3.0 |
| | 29.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.1 | 3.1 | 5.2 | 2.9 |
| | 31.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.0 | 3.1 | 5.1 | 2.9 |
| | 33.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 4.9 | 3.0 | 5.0 | 2.9 |
| | 35.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.7 | 3.2 | 4.8 | 3.0 | 4.9 | 2.9 |
| | 37.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.7 | 3.2 | 4.8 | 3.0 | 4.9 | 2.8 |
| | 39.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.6 | 3.1 | 4.7 | 3.0 | 4.8 | 2.8 |

## [50Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.3 | 4.1 |
| | 12.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.2 | 4.0 |
| | 14.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.1 | 4.0 |
| | 16.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.0 | 3.9 |
| | 18.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 6.9 | 3.9 |
| | 20.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 6.8 | 3.8 |
| | 21.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 6.8 | 3.8 |
| | 23.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 6.7 | 3.8 |
| | 25.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.5 | 4.0 | 6.6 | 3.7 |
| | 27.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.4 | 3.9 | 6.5 | 3.7 |
| | 29.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.3 | 3.8 | 6.4 | 3.7 |
| | 31.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.2 | 3.8 | 6.3 | 3.7 |
| | 33.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.1 | 3.8 | 6.2 | 3.6 |
| | 35.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 3.9 | 6.0 | 3.8 | 6.2 | 3.6 |
| | 37.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.8 | 3.9 | 5.9 | 3.7 | 6.1 | 3.6 |
| | 39.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.7 | 3.9 | 5.8 | 3.7 | 6.0 | 3.5 |
| 63 | 10.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.3 | 5.0 |
| | 12.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.1 | 4.9 |
| | 14.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.0 | 4.9 |
| | 16.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 8.9 | 4.8 |
| | 18.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 8.8 | 4.7 |
| | 20.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 8.7 | 4.7 |
| | 21.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 8.6 | 4.7 |
| | 23.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.3 | 5.0 | 8.5 | 4.6 |
| | 25.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.2 | 4.9 | 8.4 | 4.5 |
| | 27.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.1 | 4.9 | 8.3 | 4.5 |
| | 29.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.0 | 4.8 | 8.2 | 4.5 |
| | 31.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 7.9 | 4.7 | 8.0 | 4.4 |
| | 33.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 7.8 | 4.7 | 7.9 | 4.4 |
| | 35.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 4.9 | 7.6 | 4.7 | 7.8 | 4.3 |
| | 37.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.4 | 4.9 | 7.5 | 4.6 | 7.7 | 4.2 |
| | 39.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.2 | 4.8 | 7.4 | 4.6 | 7.6 | 4.2 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.1.2 Heating Capacity

### FXL – L / FXN – L

**[50Hz]** **Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| | -12.6 | -13.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -10.5 | -11.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -9.5 | -10.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -8.5 | -9.1 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -7.0 | -7.6 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -5.0 | -5.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -3.0 | -3.7 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | 0.0 | -0.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 3.0 | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -12.6 | -13.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -10.5 | -11.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| | -9.5 | -10.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -8.5 | -9.1 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -7.0 | -7.6 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -5.0 | -5.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -3.0 | -3.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | 0.0 | -0.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 3.0 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -12.6 | -13.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -10.5 | -11.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| | -9.5 | -10.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -8.5 | -9.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -7.0 | -7.6 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -5.0 | -5.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -3.0 | -3.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | 0.0 | -0.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 3.0 | 2.2 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 3.9 | 3.9 | 3.9 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.4 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -12.6 | -13.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -10.5 | -11.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -9.5 | -10.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -8.5 | -9.1 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| | -7.0 | -7.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -5.0 | -5.6 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -3.0 | -3.7 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | 0.0 | -0.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 3.0 | 2.2 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.5 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.7 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## [50Hz]

**Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -12.6 | -13.0 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| | -10.5 | -11.0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| | -9.5 | -10.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| | -8.5 | -9.1 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | -7.0 | -7.6 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -5.0 | -5.6 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -3.0 | -3.7 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | 0.0 | -0.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 3.0 | 2.2 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.1 | 6.1 | 6.1 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 6.9 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.1 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.2 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 |
| | -12.6 | -13.0 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| | -10.5 | -11.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| | -9.5 | -10.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -8.5 | -9.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| | -7.0 | -7.6 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -5.0 | -5.6 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -3.0 | -3.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 0.0 | -0.7 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 6.8 |
| | 3.0 | 2.2 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 7.8 | 7.8 | 7.8 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 8.8 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.1 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2 60Hz

### 6.2.1 Cooling Capacity

**FXL – L / FXN – L**

**[60Hz]**

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 10.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.9 | 1.8 |
| | 12.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.9 | 1.8 |
| | 14.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.9 | 1.8 |
| | 16.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.9 | 1.8 |
| | 18.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.9 | 1.8 |
| | 20.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.9 | 1.8 |
| | 21.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.9 | 1.8 |
| | 23.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.8 | 1.7 |
| | 25.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.8 | 1.7 |
| | 27.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.8 | 1.7 |
| | 29.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.7 | 1.7 |
| | 31.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.7 | 1.7 |
| | 33.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.7 | 1.7 |
| | 35.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.6 | 1.8 | 2.6 | 1.7 |
| | 37.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.5 | 1.8 | 2.6 | 1.7 |
| | 39.0 | 1.5 | 1.3 | 1.8 | 1.5 | 2.1 | 1.7 | 2.2 | 1.7 | 2.3 | 1.8 | 2.5 | 1.7 | 2.5 | 1.6 |
| 25 | 10.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.7 | 2.1 |
| | 12.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.7 | 2.1 |
| | 14.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.7 | 2.1 |
| | 16.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.7 | 2.1 |
| | 18.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.7 | 2.1 |
| | 20.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.7 | 2.1 |
| | 21.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.7 | 2.1 |
| | 23.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.6 | 2.1 |
| | 25.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.6 | 2.1 |
| | 27.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.5 | 2.1 |
| | 29.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.5 | 2.1 |
| | 31.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.2 | 3.4 | 2.1 |
| | 33.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.4 | 2.0 |
| | 35.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.3 | 2.1 | 3.3 | 2.0 |
| | 37.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.3 | 2.0 |
| | 39.0 | 1.9 | 1.6 | 2.3 | 1.8 | 2.6 | 2.0 | 2.8 | 2.1 | 3.0 | 2.1 | 3.2 | 2.1 | 3.2 | 2.0 |
| 32 | 10.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.6 |
| | 12.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.6 |
| | 14.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.6 |
| | 16.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.6 |
| | 18.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.6 |
| | 20.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.6 |
| | 21.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.6 |
| | 23.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.7 | 2.6 |
| | 25.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.6 | 2.6 |
| | 27.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.5 | 2.6 |
| | 29.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.5 | 2.5 |
| | 31.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.4 | 2.6 |
| | 33.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.3 | 2.6 | 4.3 | 2.5 |
| | 35.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.2 | 2.6 | 4.3 | 2.5 |
| | 37.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.5 | 3.8 | 2.6 | 4.1 | 2.6 | 4.2 | 2.5 |
| | 39.0 | 2.5 | 2.1 | 2.9 | 2.3 | 3.4 | 2.5 | 3.6 | 2.6 | 3.8 | 2.6 | 4.1 | 2.6 | 4.2 | 2.4 |
| 40 | 10.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.3 |
| | 12.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.3 |
| | 14.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.3 |
| | 16.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.3 |
| | 18.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.3 |
| | 20.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.3 |
| | 21.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.9 | 3.3 |
| | 23.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.8 | 3.3 |
| | 25.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.7 | 3.2 |
| | 27.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.7 | 3.2 |
| | 29.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.6 | 3.2 |
| | 31.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.5 | 3.1 |
| | 33.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.3 | 3.3 | 5.4 | 3.1 |
| | 35.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.2 | 3.3 | 5.4 | 3.1 |
| | 37.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.1 | 4.8 | 3.2 | 5.2 | 3.2 | 5.3 | 3.1 |
| | 39.0 | 3.1 | 2.5 | 3.7 | 2.8 | 4.2 | 3.1 | 4.5 | 3.2 | 4.8 | 3.2 | 5.1 | 3.2 | 5.2 | 3.1 |

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## [60Hz]

**Cooling capacity**

| Unit Size | Outdoor air temp. °CDB | Indoor air temp. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0°CWB | | 16.0°CWB | | 18.0°CWB | | 19.0°CWB | | 20.0°CWB | | 22.0°CWB | | 24.0°CWB | |
| | | 20°CDB | | 23°CDB | | 26°CDB | | 27°CDB | | 28°CDB | | 30°CDB | | 32°CDB | |
| | | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 50 | 10.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.3 | 4.1 |
| | 12.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.3 | 4.1 |
| | 14.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.3 | 4.1 |
| | 16.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.3 | 4.1 |
| | 18.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.3 | 4.1 |
| | 20.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.3 | 4.1 |
| | 21.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.3 | 4.1 |
| | 23.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.3 | 4.1 |
| | 25.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.2 | 4.0 |
| | 27.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.1 | 4.0 |
| | 29.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 7.0 | 4.0 |
| | 31.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.0 | 6.9 | 4.0 |
| | 33.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.6 | 4.1 | 6.8 | 3.9 |
| | 35.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.5 | 4.1 | 6.7 | 3.9 |
| | 37.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.4 | 4.0 | 6.6 | 3.9 |
| | 39.0 | 3.9 | 3.1 | 4.6 | 3.5 | 5.3 | 3.8 | 5.6 | 3.9 | 5.9 | 4.0 | 6.3 | 4.0 | 6.5 | 3.8 |
| 63 | 10.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.3 | 5.0 |
| | 12.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.3 | 5.0 |
| | 14.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.3 | 5.0 |
| | 16.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.3 | 5.0 |
| | 18.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.3 | 5.0 |
| | 20.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.3 | 5.0 |
| | 21.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.3 | 5.0 |
| | 23.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.2 | 5.0 |
| | 25.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 9.1 | 4.9 |
| | 27.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 8.9 | 4.8 |
| | 29.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 8.8 | 4.9 |
| | 31.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 8.7 | 4.8 |
| | 33.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.4 | 5.1 | 8.6 | 4.7 |
| | 35.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.3 | 5.0 | 8.4 | 4.6 |
| | 37.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.0 | 8.1 | 5.0 | 8.3 | 4.6 |
| | 39.0 | 4.9 | 3.8 | 5.8 | 4.3 | 6.7 | 4.8 | 7.1 | 4.9 | 7.5 | 5.1 | 8.0 | 5.0 | 8.2 | 4.5 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 433~, for the actual performance data of each indoor and outdoor unit combination.

## 6.2.2 Heating Capacity

### FXL – L / FXN – L

**[60Hz]** **Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 20 | -14.7 | -15.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| | -12.6 | -13.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | -10.5 | -11.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| | -9.5 | -10.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -8.5 | -9.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| | -7.0 | -7.6 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -5.0 | -5.6 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | -3.0 | -3.7 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 |
| | 0.0 | -0.7 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.1 |
| | 3.0 | 2.2 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 5.0 | 4.1 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 7.0 | 6.0 | 2.7 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 9.0 | 7.9 | 2.8 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 11.0 | 9.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 13.0 | 11.8 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| | 15.0 | 13.7 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 |
| 25 | -14.7 | -15.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| | -12.6 | -13.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| | -10.5 | -11.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -9.5 | -10.0 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| | -8.5 | -9.1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | -7.0 | -7.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| | -5.0 | -5.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -3.0 | -3.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
| | 0.0 | -0.7 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 |
| | 3.0 | 2.2 | 3.2 | 3.2 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 5.0 | 4.1 | 3.3 | 3.3 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 7.0 | 6.0 | 3.4 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 9.0 | 7.9 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 11.0 | 9.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 13.0 | 11.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| | 15.0 | 13.7 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.7 |
| 32 | -14.7 | -15.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | -12.6 | -13.0 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| | -10.5 | -11.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | -9.5 | -10.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| | -8.5 | -9.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| | -7.0 | -7.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| | -5.0 | -5.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.4 |
| | -3.0 | -3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.4 |
| | 0.0 | -0.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.7 | 3.4 |
| | 3.0 | 2.2 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 5.0 | 4.1 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 7.0 | 6.0 | 4.3 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 9.0 | 7.9 | 4.5 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 11.0 | 9.8 | 4.6 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 13.0 | 11.8 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| | 15.0 | 13.7 | 4.7 | 4.3 | 4.0 | 3.9 | 3.7 | 3.4 |
| 40 | -14.7 | -15.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| | -12.6 | -13.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| | -10.5 | -11.0 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| | -9.5 | -10.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| | -8.5 | -9.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| | -7.0 | -7.6 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| | -5.0 | -5.6 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 |
| | -3.0 | -3.7 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| | 0.0 | -0.7 | 4.8 | 4.8 | 4.8 | 4.8 | 4.6 | 4.2 |
| | 3.0 | 2.2 | 5.0 | 5.0 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 5.0 | 4.1 | 5.2 | 5.2 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 7.0 | 6.0 | 5.4 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 9.0 | 7.9 | 5.6 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 11.0 | 9.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 13.0 | 11.8 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |
| | 15.0 | 13.7 | 5.8 | 5.4 | 5.0 | 4.8 | 4.6 | 4.2 |

## [60Hz]

**Heating Capacity**

| Unit Size | Outdoor air temp. | | Indoor air temp.°CDB | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | °CDB | °CWB | kW | kW | kW | kW | kW | kW |
| 50 | -14.7 | -15.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | -12.6 | -13.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | -10.5 | -11.0 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| | -9.5 | -10.0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| | -8.5 | -9.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| | -7.0 | -7.6 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | -5.0 | -5.6 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.3 |
| | -3.0 | -3.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.3 |
| | 0.0 | -0.7 | 6.0 | 6.0 | 6.0 | 6.0 | 5.8 | 5.3 |
| | 3.0 | 2.2 | 6.3 | 6.3 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 5.0 | 4.1 | 6.5 | 6.5 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 7.0 | 6.0 | 6.7 | 6.7 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 9.0 | 7.9 | 7.0 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 11.0 | 9.8 | 7.2 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 13.0 | 11.8 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| | 15.0 | 13.7 | 7.3 | 6.8 | 6.3 | 6.1 | 5.8 | 5.3 |
| 63 | -14.7 | -15.0 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| | -12.6 | -13.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | -10.5 | -11.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | -9.5 | -10.0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | -8.5 | -9.1 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | -7.0 | -7.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| | -5.0 | -5.6 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | -3.0 | -3.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 6.8 |
| | 0.0 | -0.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.4 | 6.8 |
| | 3.0 | 2.2 | 8.0 | 8.0 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 5.0 | 4.1 | 8.3 | 8.3 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 7.0 | 6.0 | 8.6 | 8.6 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 9.0 | 7.9 | 8.9 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 11.0 | 9.8 | 9.2 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 13.0 | 11.8 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |
| | 15.0 | 13.7 | 9.3 | 8.7 | 8.0 | 7.7 | 7.4 | 6.8 |

TC : Total capacity ; kW
SHC : Sensible heat capacity ; kW

Refer to Outdoor Unit Capacity Tables : on page 442~, for the actual performance data of each indoor and outdoor unit combination.

# 7. Electric Characteristics

| Units | | | | Power supply | | IFM | | Input(W) | |
|---|---|---|---|---|---|---|---|---|---|
| Model | Hz | Volts | Voltage range | MCA | MFA | KW | FLA | Cooling | Heating |
| FXL•FXN20LVE, FXLQ•FXNQ20MVE | 50 | 220-240 | MAX. 264 Min. 198 | 0.3 | 15 | 0.015 | 0.2 | 49 | 49 |
| FXL•FXN25LVE, FXLQ•FXNQ25MVE | | | | 0.3 | 15 | 0.015 | 0.2 | 49 | 49 |
| FXL•FXN32LVE, FXLQ•FXNQ32MVE | | | | 0.6 | 15 | 0.025 | 0.5 | 90 | 90 |
| FXL•FXN40LVE, FXLQ•FXNQ40MVE | | | | 0.6 | 15 | 0.025 | 0.5 | 90 | 90 |
| FXL•FXN50LVE, FXLQ•FXNQ50MVE | | | | 0.6 | 15 | 0.035 | 0.5 | 110 | 110 |
| FXL•FXN63LVE, FXLQ•FXNQ63MVE | | | | 0.6 | 15 | 0.035 | 0.5 | 110 | 110 |
| FXL•FXN20LVE, FXLQ•FXNQ20MVE | 60 | 220 | MAX. 242 Min. 198 | 0.3 | 15 | 0.015 | 0.2 | 47 | 47 |
| FXL•FXN25LVE, FXLQ•FXNQ25MVE | | | | 0.3 | 15 | 0.015 | 0.2 | 47 | 47 |
| FXL•FXN32LVE, FXLQ•FXNQ32MVE | | | | 0.5 | 15 | 0.025 | 0.4 | 79 | 79 |
| FXL•FXN40LVE, FXLQ•FXNQ40MVE | | | | 0.5 | 15 | 0.025 | 0.4 | 84 | 84 |
| FXL•FXN50LVE, FXLQ•FXNQ50MVE | | | | 0.6 | 15 | 0.035 | 0.5 | 105 | 105 |
| FXL•FXN63LVE, FXLQ•FXNQ63MVE | | | | 0.6 | 15 | 0.035 | 0.5 | 108 | 108 |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
KW : Fan Motor Rated Output(KW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

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Note:

1. Voltage range

   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

   MCA = 1.25 X FLA

   MFA ≦ 4 X FLA

   (Next lower standard fuse rating. Min. 15A)

4. Select wire size based on the MCA.

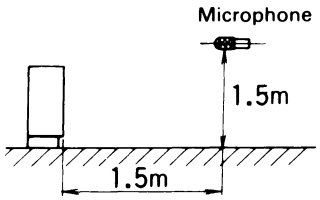
5. Instead of fuse, use Circuit Breaker.

4D034579A

# 8. Sound Levels

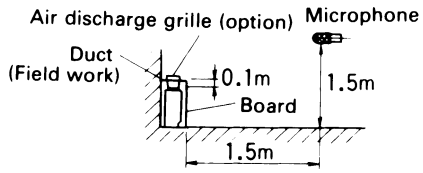
## Overall

■ **Floor Standing Type**




(V0478)

■ **Concealed Floor Standing Type**




(V0479)

dBA dBA

| Model | 220V 50/60Hz | | 240V 50/60Hz | | Model | 220V 50/60Hz | | 240V 50/60Hz | |
|---|---|---|---|---|---|---|---|---|---|
| | H | L | H | L | | H | L | H | L |
| FXL20L<br>FXL25L<br>FXL32L | 35 | 32 | 37 | 34 | FXN20L<br>FXN25L<br>FXN32L | 35 | 32 | 37 | 34 |
| FXL40L | 38 | 33 | 40 | 35 | FXN40L | 38 | 33 | 40 | 35 |
| FXL50L | 39 | 34 | 41 | 36 | FXN50L | 39 | 34 | 41 | 36 |
| FXL63L | 40 | 35 | 42 | 37 | FXN63L | 40 | 35 | 42 | 37 |

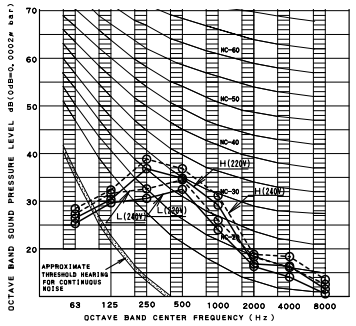
**Notes:**

1. The operating conditions are assumed to be standard (JIS conditions)
2. These operating values were obtained in a dead room (conversion values).
   Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipments installed.

## Octave Band Level

220V
240V

### FXL20L·25LVE

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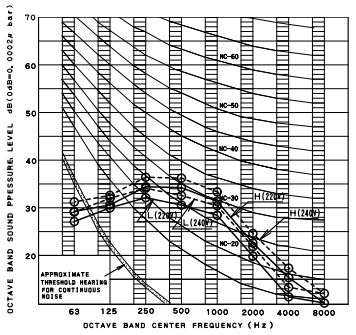
### FXL32LVE

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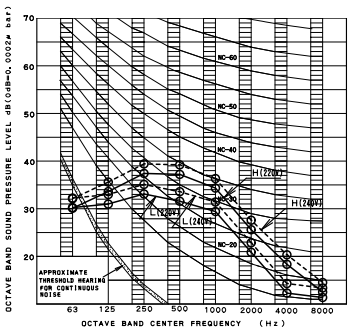
### FXL40LVE

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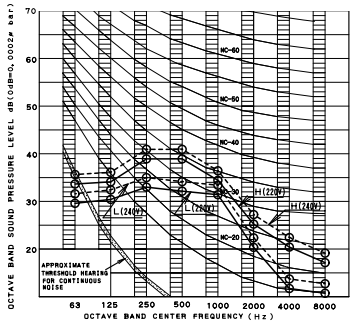
### FXL50LVE

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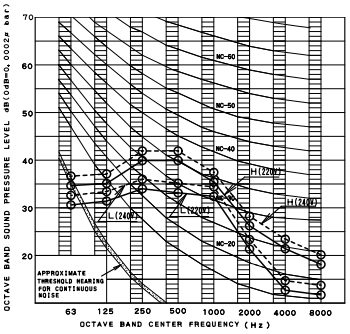
### FXL63LVE

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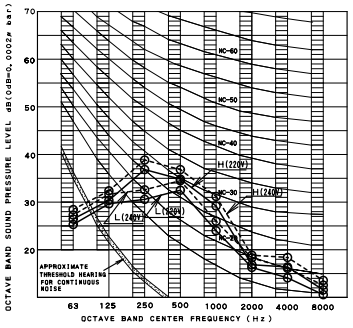
### FXN20L·25LVE

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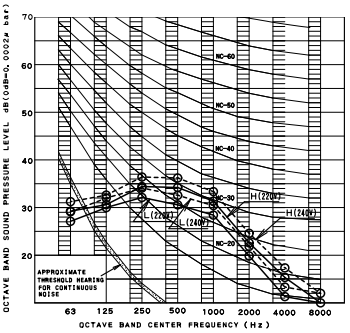
### FXN32LVE

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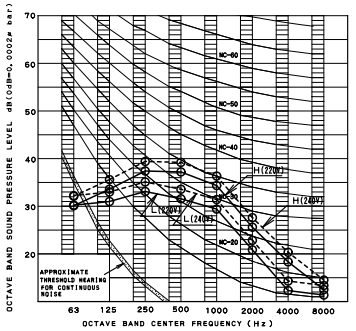
### FXN40LVE

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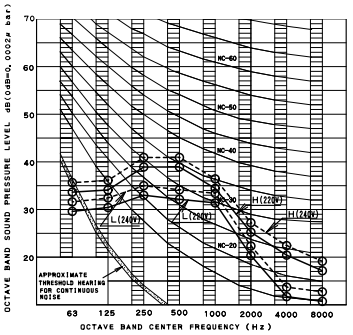
### FXN50LVE

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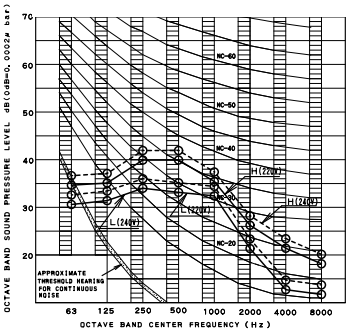
### FXN63LVE

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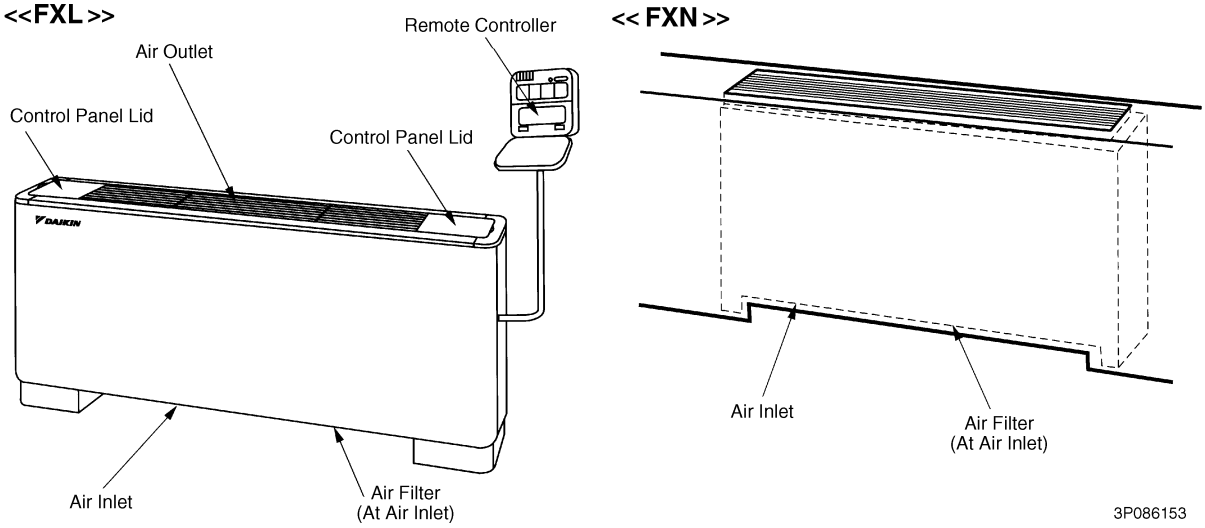
# 9. Installation

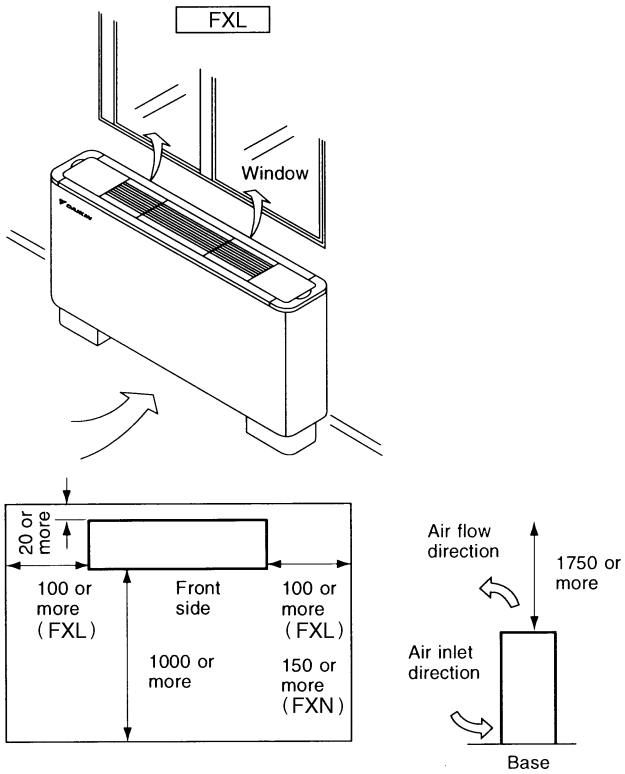
## Installation Example




## Service Space

① Select an installation site where the following conditions are satisfied and that meets with your customer's approval.

- Where the floor is strong enough to bear the indoor unit weight.
- Where the floor is not significantly inclined.
- Where nothing blocks the air passage.
- Where condensate can be properly drained.
- Where sufficient clearance for installation and maintenance can be ensured.
- Where there is no possibility of flammable gas leakage.
- Where optimum air distribution can be ensured.
- Where piping between indoor and outdoor units is possible within the allowable limit (Refer to the installation manual of the outdoor unit.)
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1 m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)




(IMPORTANT) Leave sufficient clearance for air inlet and maintenance.

| Model | A (mm) | B (mm) |
|---|---|---|
| FXL•FXN20•25L | 570 | 1030 |
| FXL•FXN32•40L | 710 | 1170 |
| FXL•FXN50•63L | 990 | 1450 |

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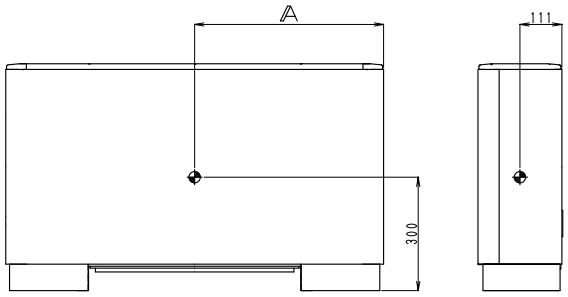
## Center of Gravity

**FXL**




| | A |
|---|---|
| FXL20•25LVE | 500 |
| FXL32•40LVE | 570 |
| FXL50•63LVE | 710 |

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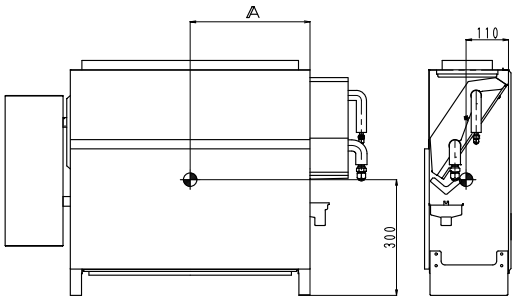
**FXN**




| | A |
|---|---|
| FXN20•25LVE | 395 |
| FXN32•40LVE | 465 |
| FXN50•63LVE | 505 |

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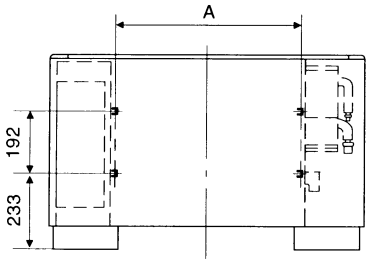
## Bolt Pitch

① Positioning of holes for fastening to the wall




| Model | A |
|---|---|
| FXL•FXN20•25L | 590 |
| FXL•FXN40•50L | 730 |
| FXL•FXN50•63L | 1010 |

② How to open/close the front panel

I) Open the lid of controll panel (both left and right)

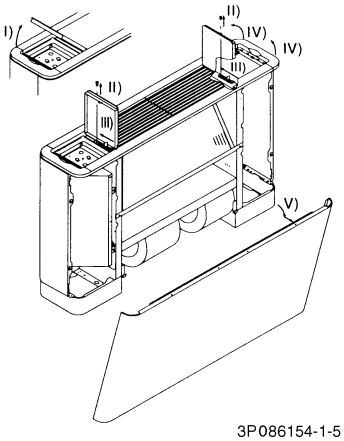
II) Remove screws (both left and right) that lock the knobs in position.

III) Push the knobs (both left and right) to the rear.

IV) Lift the front of the top plate.

V) Lower the front panel towards the front of the unit.

- To close, perform the procedure in opposite order. Pull towards the front until the knob snaps in place.




3P086154-1-5

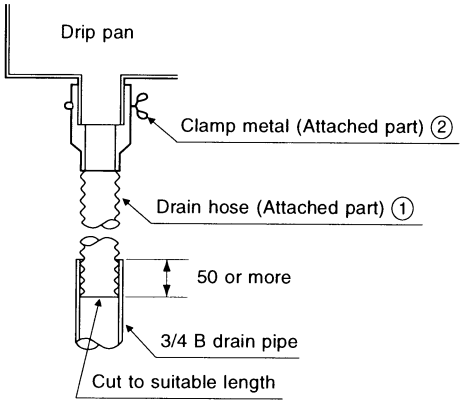
## Drain Piping Work

**〈〈 Rig the drain pipe as shown below and take measures against condensation. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings. 〉〉**

① Connect the drain hose ① using the attached hose and parts, as shown in the right drawing.

② After piping work is finished, check drainage flows smoothly.

③ Be sure to insulate all indoor pipes.




3P086154-1-7

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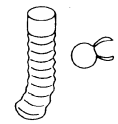
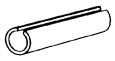
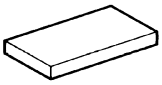
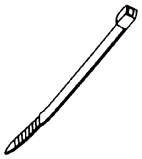
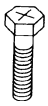
# 10. Accessories

## Standard Accessories

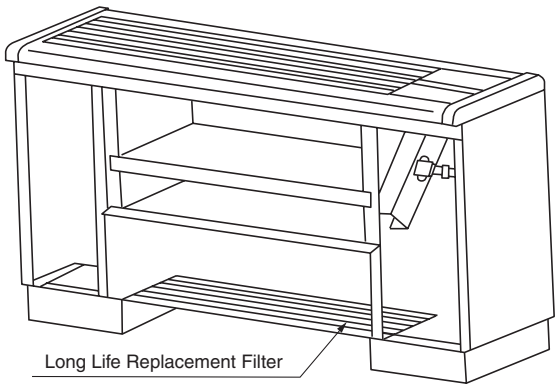
| Name | Drain hose | Insulation for fitting | Sealing pad | Clamp | Level adjust-ment screw | (Other) |
|---|---|---|---|---|---|---|
| Quantity | 1 set | 1 set | 1 set | 8 | 4 | • Operation manual<br>• Installation manual |
| Shape | ① ②  Hose × 1<br>Clamp metal × 1 |  ③ for gas pipe ④ for liquid pipe | ⑤  | ⑥  | ⑦  | |

3P086154-1-3

## Optional Accessories (For Unit)

| No. | Type / Item | FXL20L FXN20L | FXL25L FXN25L | FXL32L FXN32L | FXL40L FXN40L | FXL50L FXN50L | FXL63L FXN63L |
|---|---|---|---|---|---|---|---|
| 1 | Long life replacement filter | KAFJ361K28 | | KAFJ361K45 | | KAFJ361K71 | |

## Optional Accessories (For Controls) Refer to P.484.




(V0683)

# Part 3
# Outdoor Units

**Heat Pump, Cooling Only Series . . . . . .417**

# Heat Pump, Cooling Only Series

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# 1. Specifications

## 1.1 Heat Pump 50Hz <RXYM-M>

| Model Name | | | RXYM4MVM | RXYM5MVM |
|---|---|---|---|---|
| ★1 Cooling Capacity | | kcal / h | 9,600 | 12,000 |
| | | Btu / h | 38,200 | 47,700 |
| | | kW | 11.2 | 14.0 |
| ★2 Heating Capacity | | kcal / h | 10,700 | 13,700 |
| | | Btu / h | 42,600 | 54,600 |
| | | kW | 12.5 | 16.0 |
| Casing Color | | | Ivory White | Ivory White |
| Dimensions: (H×W×D) | | mm | 1,345×900×320 | 1,345×900×320 |
| Heat Exchanger | | | Cross Fin Coil | Cross Fin Coil |
| Comp. | Type | | Hermetically Sealed Scroll Type | Hermetically Sealed Scroll Type |
| | Piston Displacement | m³/h | 19.36 | 19.36 |
| | Number of Revolutions | r.p.m | 6,480 | 6,480 |
| | Motor Output×Number of Units | kW | 2.5×1 | 3.0×1 |
| | Starting Method | | Direct on line | Direct on line |
| Fan | Type | | Propeller Fan | Propeller Fan |
| | Motor Output | W | 70 | 70 |
| | Air Flow Rate | m³/min | 106 | 106 |
| | Drive | | Direct Drive | Direct Drive |
| Connecting Pipes | Liquid Pipe | mm | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipe | mm | ϕ19.1 (Flare Connection) | ϕ19.1 (Flare Connection) |
| Machine Weight | | kg | 130 | 130 |
| Safety Devices | | | High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs, Fuse | High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs, Fuse |
| Defrost Method | | | Reverse cycle defrosting | Reverse cycle defrosting |
| Capacity Control | | % | 24~100 | 24~100 |
| Refrigerant | Refrigerant Name | | R22 | R22 |
| | Charge | kg | 5.7 | 5.7 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve |
| Refrigerator Oil | | | SUNISO 4GSDID-K | SUNISO 4GSDID-K |
| | Charge Volume | L | 1.5 | 1.5 |
| Standard Accessories | | | Installation Manual, Operation Manual, Clamps | Installation Manual, Operation Manual, Clamps |
| Drawing No. | | | 4D044930 | |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
★2 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.
3 The power input (PI) (Comp. + Outdoor Fan Motor) : Refer to P.442~.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

| Model Name | | | RXYM6MVM |
|---|---|---|---|
| ★1 Cooling Capacity | | kcal / h | 13,300 |
| | | Btu / h | 52,900 |
| | | kW | 15.5 |
| ★2 Heating Capacity | | kcal / h | 15,400 |
| | | Btu / h | 61,400 |
| | | kW | 18.0 |
| Casing Color | | | Ivory White |
| Dimensions: (H×W×D) | | mm | 1,345×900×320 |
| Heat Exchanger | | | Cross Fin Coil |
| Comp. | Type | | Hermetically Sealed Scroll Type |
| | Piston Displacement | m³/h | 19.36 |
| | Number of Revolutions | r.p.m | 6,480 |
| | Motor Output×Number of Units | kW | 3.5×1 |
| | Starting Method | | Direct on line |
| Fan | Type | | Propeller Fan |
| | Motor Output | W | 70 |
| | Air Flow Rate | m³/min | 106 |
| | Drive | | Direct Drive |
| Connecting Pipes | Liquid Pipe | mm | ϕ9.5 (Flare Connection) |
| | Gas Pipe | mm | ϕ19.1 (Flare Connection) |
| Machine Weight | | kg | 130 |
| Safety Devices | | | High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs, Fuse |
| Defrost Method | | | Reverse cycle defrosting |
| Capacity Control | | % | 24~100 |
| Refrigerant | Refrigerant Name | | R22 |
| | Charge | kg | 5.7 |
| | Control | | Electronic Expansion Valve |
| Refrigerator Oil | | | SUNISO 4GSDID-K |
| | Charge Volume | L | 1.5 |
| Standard Accessories | | | Installation Manual, Operation Manual, Clamps |
| Drawing No. | | | 4D044930 |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
★2 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.
3 The power input (PI) (Comp. + Outdoor Fan Motor) : Refer to P.442~.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

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## 1.2 Heat Pump 60Hz <RXYM-M>

| Model Name | | | RXYM4MVMT | RXYM5MVMT |
|---|---|---|---|---|
| ★1 Cooling Capacity | | kcal / h | 9,600 | 12,000 |
| | | Btu / h | 38,200 | 47,700 |
| | | kW | 11.2 | 14.0 |
| ★2 Heating Capacity | | kcal / h | 10,700 | 13,700 |
| | | Btu / h | 42,600 | 54,600 |
| | | kW | 12.5 | 16.0 |
| Casing Color | | | Ivory White | Ivory White |
| Dimensions: (H×W×D) | | mm | 1,345×900×320 | 1,345×900×320 |
| Heat Exchanger | | | Cross Fin Coil | Cross Fin Coil |
| Comp. | Type | | Hermetically Sealed Scroll Type | Hermetically Sealed Scroll Type |
| | Piston Displacement | $m^3/h$ | 19.36 | 19.36 |
| | Number of Revolutions | r.p.m | 6,480 | 6,480 |
| | Motor Output×Number of Units | kW | 2.5×1 | 3.0×1 |
| | Starting Method | | Direct on line | Direct on line |
| Fan | Type | | Propeller Fan | Propeller Fan |
| | Motor Output | W | 70 | 70 |
| | Air Flow Rate | $m^3/min$ | 106 | 106 |
| | Drive | | Direct Drive | Direct Drive |
| Connecting Pipes | Liquid Pipe | mm | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipe | mm | ϕ19.1 (Flare Connection) | ϕ19.1 (Flare Connection) |
| Machine Weight | | kg | 130 | 130 |
| Safety Devices | | | High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs, Fuse | High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs, Fuse |
| Defrost Method | | | Reverse cycle defrosting | Reverse cycle defrosting |
| Capacity Control | | % | 24~100 | 24~100 |
| Refrigerant | Refrigerant Name | | R22 | R22 |
| | Charge | kg | 5.7 | 5.7 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve |
| Refrigerator Oil | | | SUNISO 4GSDID-K | SUNISO 4GSDID-K |
| | Charge Volume | L | 1.5 | 1.5 |
| Standard Accessories | | | Installation Manual, Operation Manual, Clamps | Installation Manual, Operation Manual, Clamps |
| Drawing No. | | | 4D044931 | |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
★2 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.
3 The power input (PI) (Comp. + Outdoor Fan Motor) : Refer to P.442~.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=$m^3$/min×35.3 |

| Model Name | | | RXYM6MVMT |
|---|---|---|---|
| ★1 Cooling Capacity | | kcal / h | 13,300 |
| | | Btu / h | 52,900 |
| | | kW | 15.5 |
| ★2 Heating Capacity | | kcal / h | 15,400 |
| | | Btu / h | 61,400 |
| | | kW | 18.0 |
| Casing Color | | | Ivory White |
| Dimensions: (H×W×D) | | mm | 1,345×900×320 |
| Heat Exchanger | | | Cross Fin Coil |
| Comp. | Type | | Hermetically Sealed Scroll Type |
| | Piston Displacement | m³/h | 19.36 |
| | Number of Revolutions | r.p.m | 6,480 |
| | Motor Output×Number of Units | kW | 3.5×1 |
| | Starting Method | | Direct on line |
| Fan | Type | | Propeller Fan |
| | Motor Output | W | 70 |
| | Air Flow Rate | m³/min | 106 |
| | Drive | | Direct Drive |
| Connecting Pipes | Liquid Pipe | mm | ϕ9.5 (Flare Connection) |
| | Gas Pipe | mm | ϕ19.1 (Flare Connection) |
| Machine Weight | | kg | 130 |
| Safety Devices | | | High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs, Fuse |
| Defrost Method | | | Reverse cycle defrosting |
| Capacity Control | | % | 24~100 |
| Refrigerant | Refrigerant Name | | R22 |
| | Charge | kg | 5.7 |
| | Control | | Electronic Expansion Valve |
| Refrigerator Oil | | | SUNISO 4GSDID-K |
| | Charge Volume | L | 1.5 |
| Standard Accessories | | | Installation Manual, Operation Manual, Clamps |
| Drawing No. | | | 4D044931 |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.
★2 Indoor temp. : 20°CDB / outdoor temp. : 7°CDB, 6°CWB / Equivalent piping length : 7.5m, level difference : 0m.
3 The power input (PI) (Comp. + Outdoor Fan Motor) : Refer to P.442~.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=m³/min×35.3 |

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## 1.3 Cooling Only 50Hz <RXM-M>

| Model Name | | | RXM4MVM | RXM5MVM |
|---|---|---|---|---|
| ★1 Cooling Capacity | | kcal / h | 9,600 | 12,000 |
| | | Btu / h | 38,200 | 47,700 |
| | | kW | 11.2 | 14.0 |
| Casing Color | | | Ivory White | Ivory White |
| Dimensions: (H×W×D) | | mm | 1,345×900×320 | 1,345×900×320 |
| Heat Exchanger | | | Cross Fin Coil | Cross Fin Coil |
| Comp. | Type | | Hermetically Sealed Scroll Type | Hermetically Sealed Scroll Type |
| | Piston Displacement | $m^3/h$ | 19.36 | 19.36 |
| | Number of Revolutions | r.p.m | 6,480 | 6,480 |
| | Motor Output×Number of Units | kW | 2.5×1 | 3.0×1 |
| | Starting Method | | Direct on line | Direct on line |
| Fan | Type | | Propeller Fan | Propeller Fan |
| | Motor Output | W | 70 | 70 |
| | Air Flow Rate | $m^3/min$ | 106 | 106 |
| | Drive | | Direct Drive | Direct Drive |
| Connecting Pipes | Liquid Pipe | mm | ϕ9.5 (Flare Connection) | ϕ9.5 (Flare Connection) |
| | Gas Pipe | mm | ϕ19.1 (Flare Connection) | ϕ19.1 (Flare Connection) |
| Machine Weight | | kg | 130 | 130 |
| Safety Devices | | | High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs, Fuse | High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs, Fuse |
| Capacity Control | | % | 24~100 | 24~100 |
| Refrigerant | Refrigerant Name | | R22 | R22 |
| | Charge | kg | 5.7 | 5.7 |
| | Control | | Electronic Expansion Valve | Electronic Expansion Valve |
| Refrigerator Oil | | | SUNISO 4GSDID-K | SUNISO 4GSDID-K |
| | Charge Volume | L | 1.5 | 1.5 |
| Standard Accessories | | | Installation Manual, Operation Manual, Clamps | Installation Manual, Operation Manual, Clamps |
| Drawing No. | | | 4D044932 | |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

2 The power input (PI) (Comp. + Outdoor Fan Motor) : Refer to P.433~.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=$m^3$/min×35.3 |

| Model Name | | | RXM6MVM |
|---|---|---|---|
| ★1 Cooling Capacity | | kcal / h | 13,300 |
| | | Btu / h | 52,900 |
| | | kW | 15.5 |
| Casing Color | | | Ivory White |
| Dimensions: (H×W×D) | | mm | 1,345×900×320 |
| Heat Exchanger | | | Cross Fin Coil |
| Comp. | Type | | Hermetically Sealed Scroll Type |
| | Piston Displacement | $m^3/h$ | 19.36 |
| | Number of Revolutions | r.p.m | 6,480 |
| | Motor Output×Number of Units | kW | 3.5×1 |
| | Starting Method | | Direct on line |
| Fan | Type | | Propeller Fan |
| | Motor Output | W | 70 |
| | Air Flow Rate | $m^3/min$ | 106 |
| | Drive | | Direct Drive |
| Connecting Pipes | Liquid Pipe | mm | ϕ9.5 (Flare Connection) |
| | Gas Pipe | mm | ϕ19.1 (Flare Connection) |
| Machine Weight | | kg | 130 |
| Safety Devices | | | High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs, Fuse |
| Capacity Control | | % | 24~100 |
| Refrigerant | Refrigerant Name | | R22 |
| | Charge | kg | 5.7 |
| | Control | | Electronic Expansion Valve |
| Refrigerator Oil | | | SUNISO 4GSDID-K |
| | Charge Volume | L | 1.5 |
| Standard Accessories | | | Installation Manual, Operation Manual, Clamps |
| Drawing No. | | | 4D044932 |

**Notes:**

★1 Indoor temp. : 27°CDB, 19.0°CWB / outdoor temp. : 35°CDB / Equivalent piping length : 7.5m, level difference : 0m.

2 The power input (PI) (Comp. + Outdoor Fan Motor) : Refer to P.433~.

| Conversion Formulae |
|---|
| kcal/h=kW×860<br>Btu/h=kW×3414<br>cfm=$m^3$/min×35.3 |

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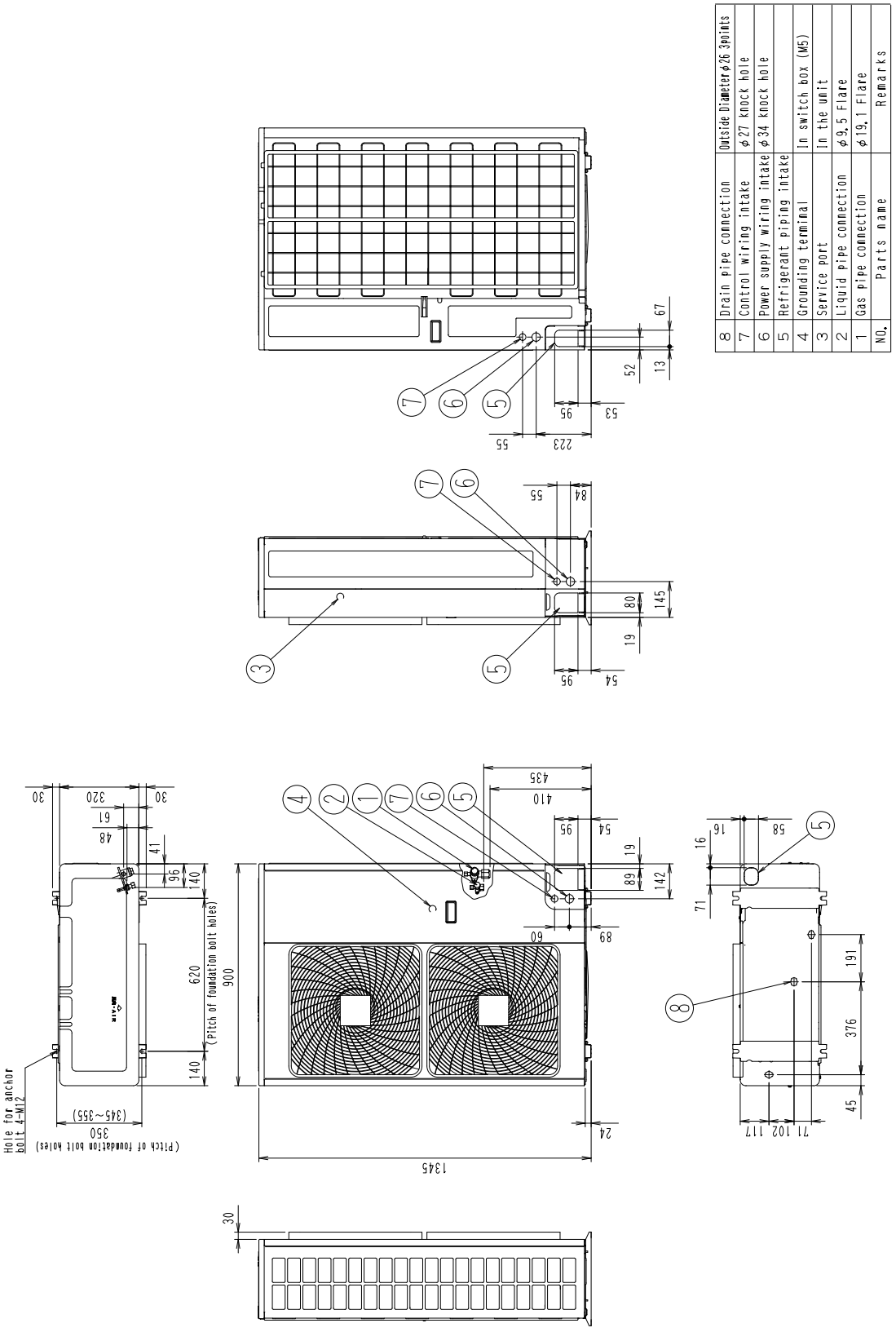
# 2. Dimensions

**RXYM4·5·6MVM(T)**
**RXM4·5·6MVM**

3D044909



# 3. Service Space

**RXYM4·5·6MVM(T)**
**RXM4·5·6MVM**

REQUIRED INSTALLATION SPACE

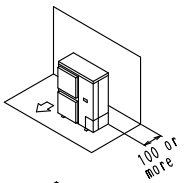
The unit of the values is mm.

**1. Where there is an obstacle on the suction side:**

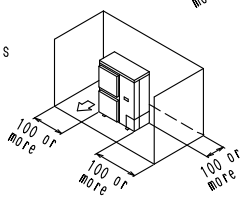
**(a) No obstacle above**

(1)Stand-alone installation

• Obstacle on the suction side only

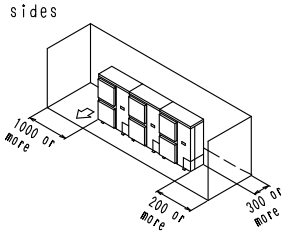



• Obstacle on both sides




(2)Series installation (2 or more)

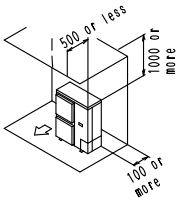
• Obstacle on both sides



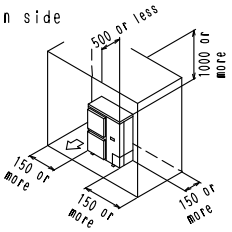

**(b) Obstacle above, too**

(1)Stand-alone installation

• Obstacle on the suction side, too

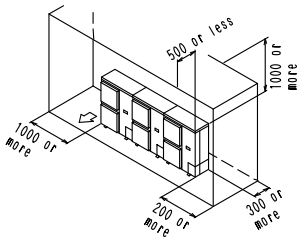



• Obstacle on the suction side and both sides




(2)Series installation (2 or more)

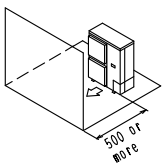
• Obstacle on the suction side and both sides



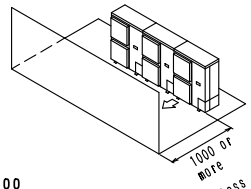

**2. Where there is an obstacle on the discharge side:**

**(a) No obstacle above**

(1)Stand-alone installation

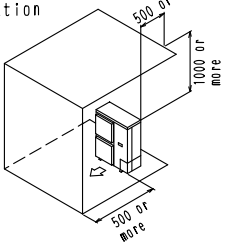



(2)Series installation (2 or more)

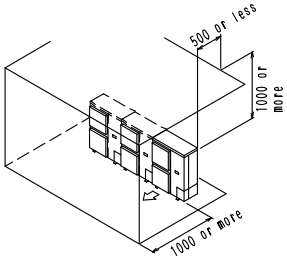



**(b) Obstacle above, too**

(1)Stand-alone installation




(2)Series installation (2 or more)



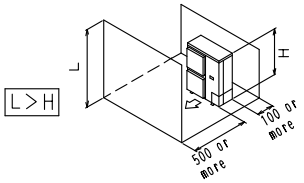

**3. Where there are obstacles on both suction and discharge sides:**

Pattern 1

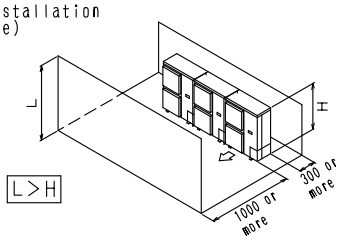
Where the obstacles on the discharge side is higher than the unit:
(There is no height limit for obstructions on the intake side.)

**(a) No obstacle above**

(1)Stand-alone installation




(2)Series installation (2 or more)

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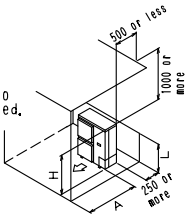
**(b) Obstacle above, too**

(1)Stand-alone installation

The relations between H, A and L are as follows:

| | L | A |
|---|---|---|
| L≦H | 0<L≦1/2H | 750 |
| | 1/2H<L≦H | 1000 |
| H<L | Set the stand as: L≦H. | |

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



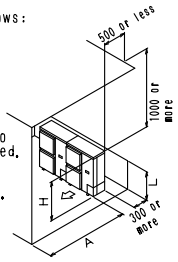

(2)Series installation
(2 or more)

The relations between H, A and L are as follows:

| | L | A |
|---|---|---|
| L≦H | 0<L≦1/2H | 1000 |
| | 1/2H<L≦H | 1250 |
| H<L | Set the stand as: L≦H. | |

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.




Pattern 2

Where the obstacles on the discharge side is lower than the unit:

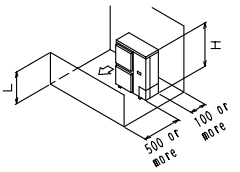
(There is no height limit for obstructions on the intake side.)

**(a) No obstacle above**

(1)Stand-alone installation

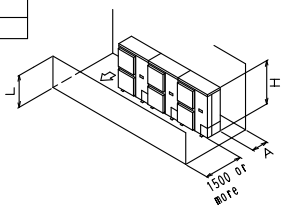
L≦H

(2)Series installation
(2 or more)




The relations between H, A and L are as follows:

| L | A |
|---|---|
| 0<L≦1/2H | 250 |
| 1/2H<L≦H | 300 |



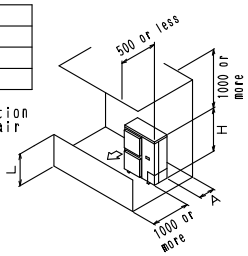

**(b) Obstacle above, too**

(1)Stand-alone installation

The relations between H, A and L are follows:

| | L | A |
|---|---|---|
| L≦H | 0<L≦1/2H | 100 |
| | 1/2H<L≦H | 200 |
| H<L | Set the stand as: L≦H. | |

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



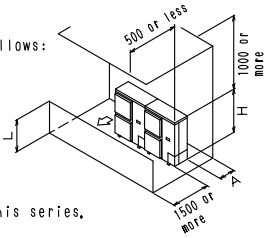

(2)Series installation

The relations between H, A and L are as follows:

| | L | A |
|---|---|---|
| L≦H | 0<L≦1/2H | 250 |
| | 1/2H<L≦H | 300 |
| H<L | Set the stand as: L≦H. | |

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.



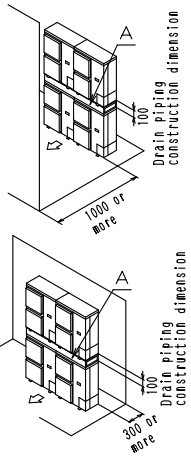

**4. Double-decker installation**

(a) Obstacle on the discharge side
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two unit.

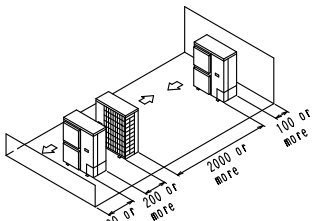
(b) Obstacle on the suction side
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two unit.




**5. Multiple rows of series installation (on the rooftop, etc.)**

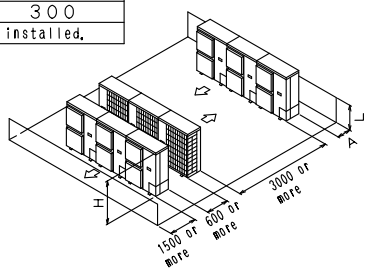
(a) One row of stand-alone installation




(b) Rows of series installation
(2 or more)

The relations between H, A and L are as follows:

| | L | A |
|---|---|---|
| L≦H | 0<L≦1/2H | 250 |
| | 1/2H<L≦H | 300 |
| H<L | Cannot be installed. | |

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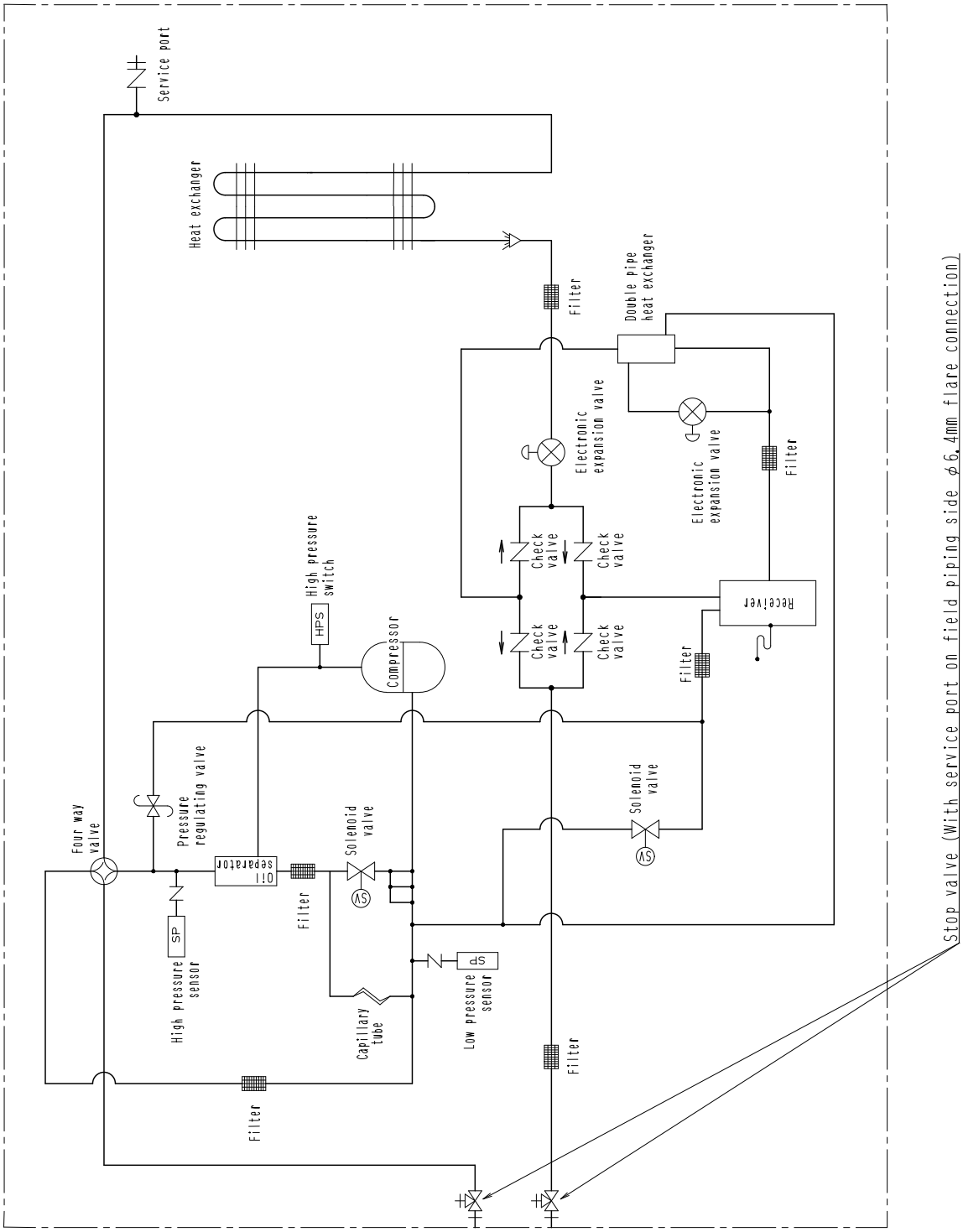
# 4. Piping Diagrams

## 4.1 Heat Pump

**RXYM4·5·6MVM(T)**

3D044919

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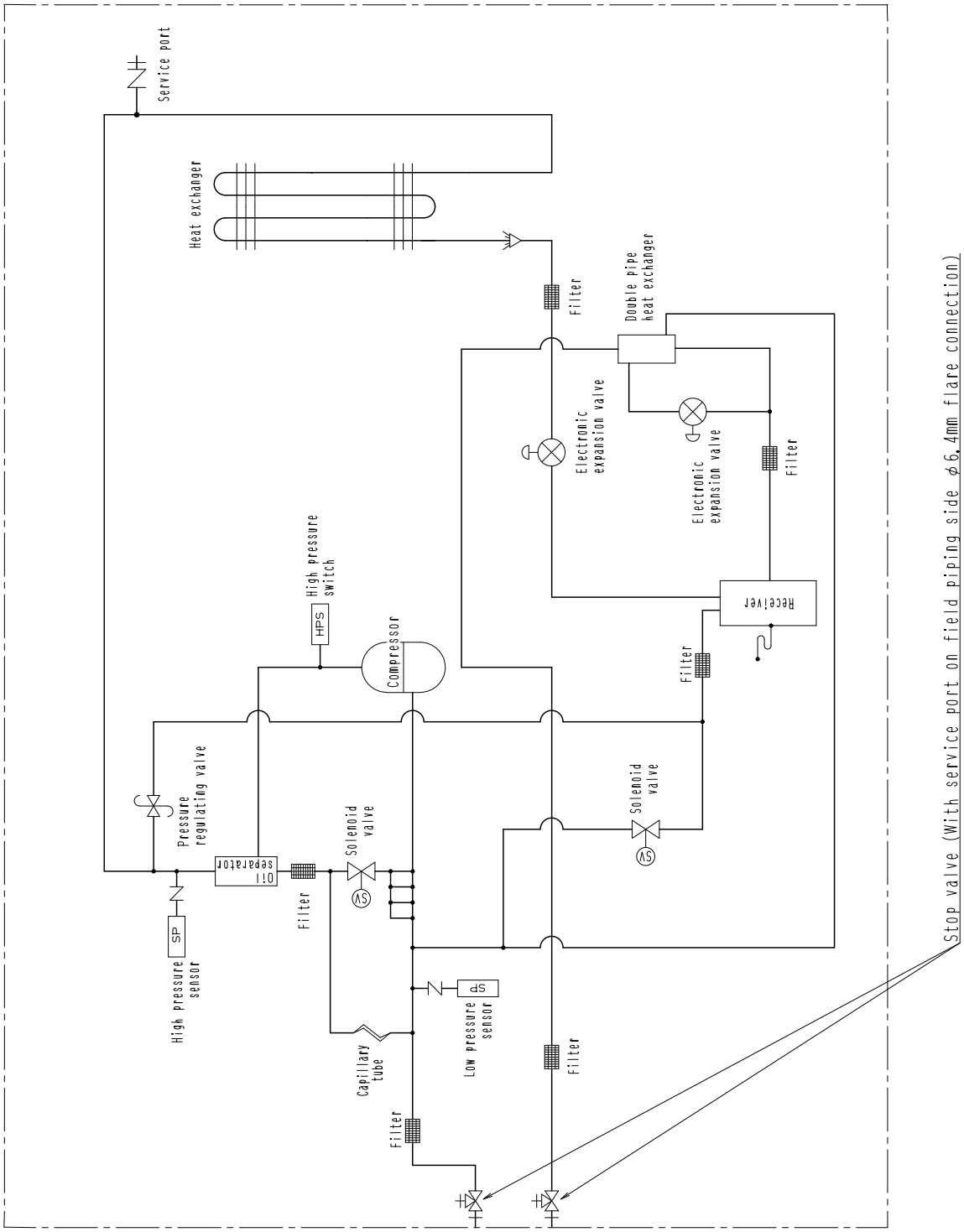
## 4.2 Cooling Only

**RXM4·5·6MVM**

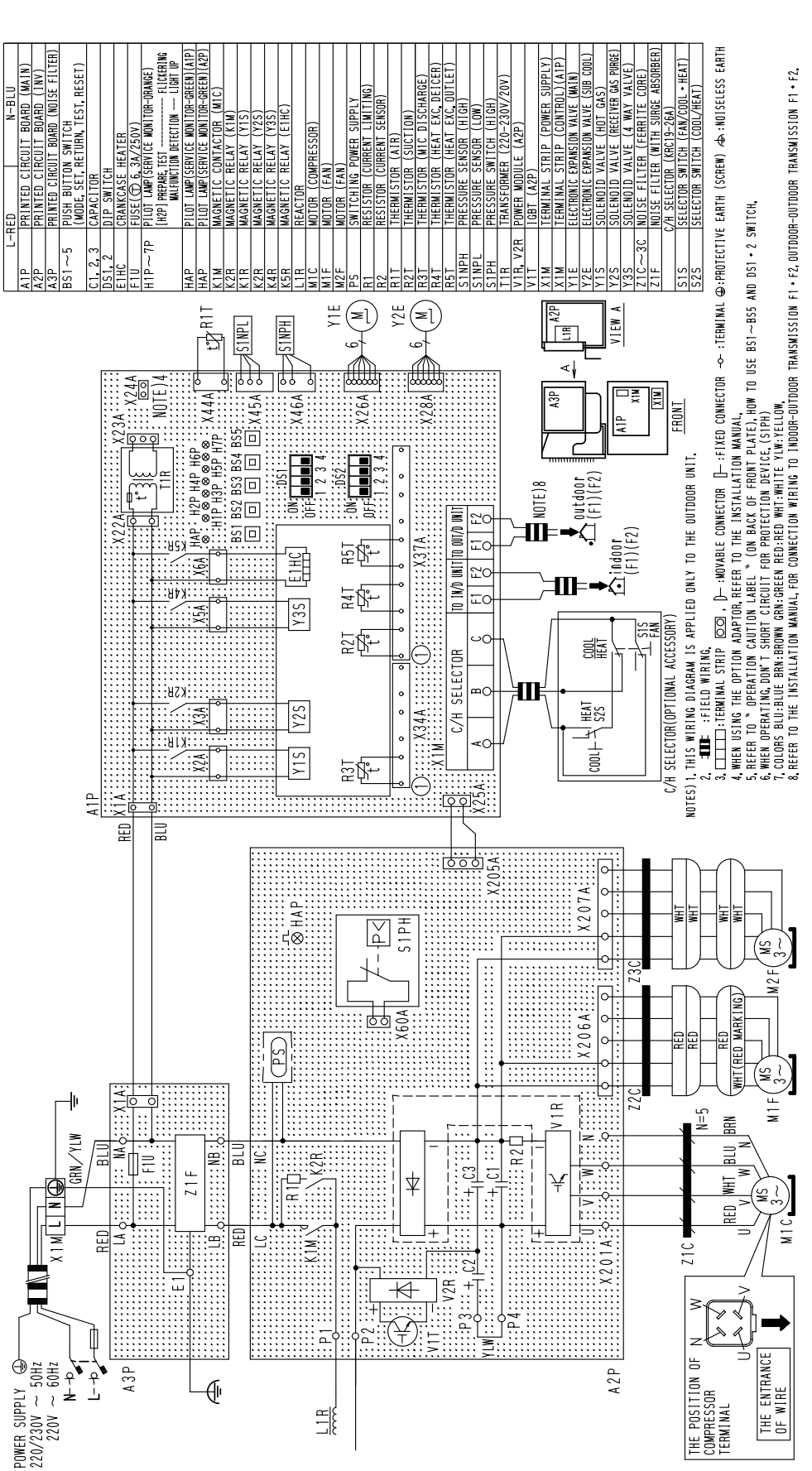
3D044920



# 5. Wiring Diagrams

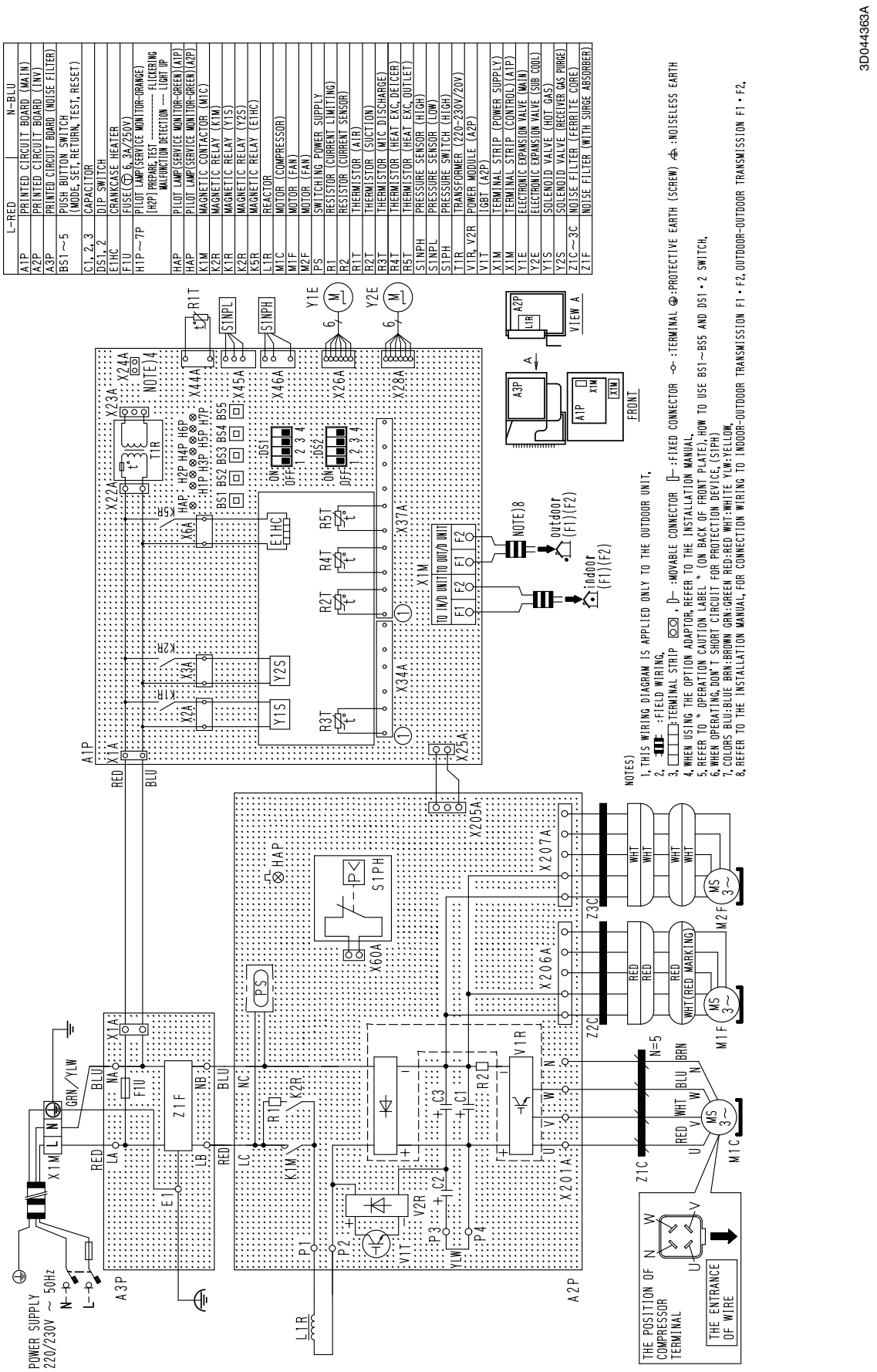
## 5.1 Heat Pump

**RXYM4·5·6MVM(T)**



## 5.2 Cooling Only

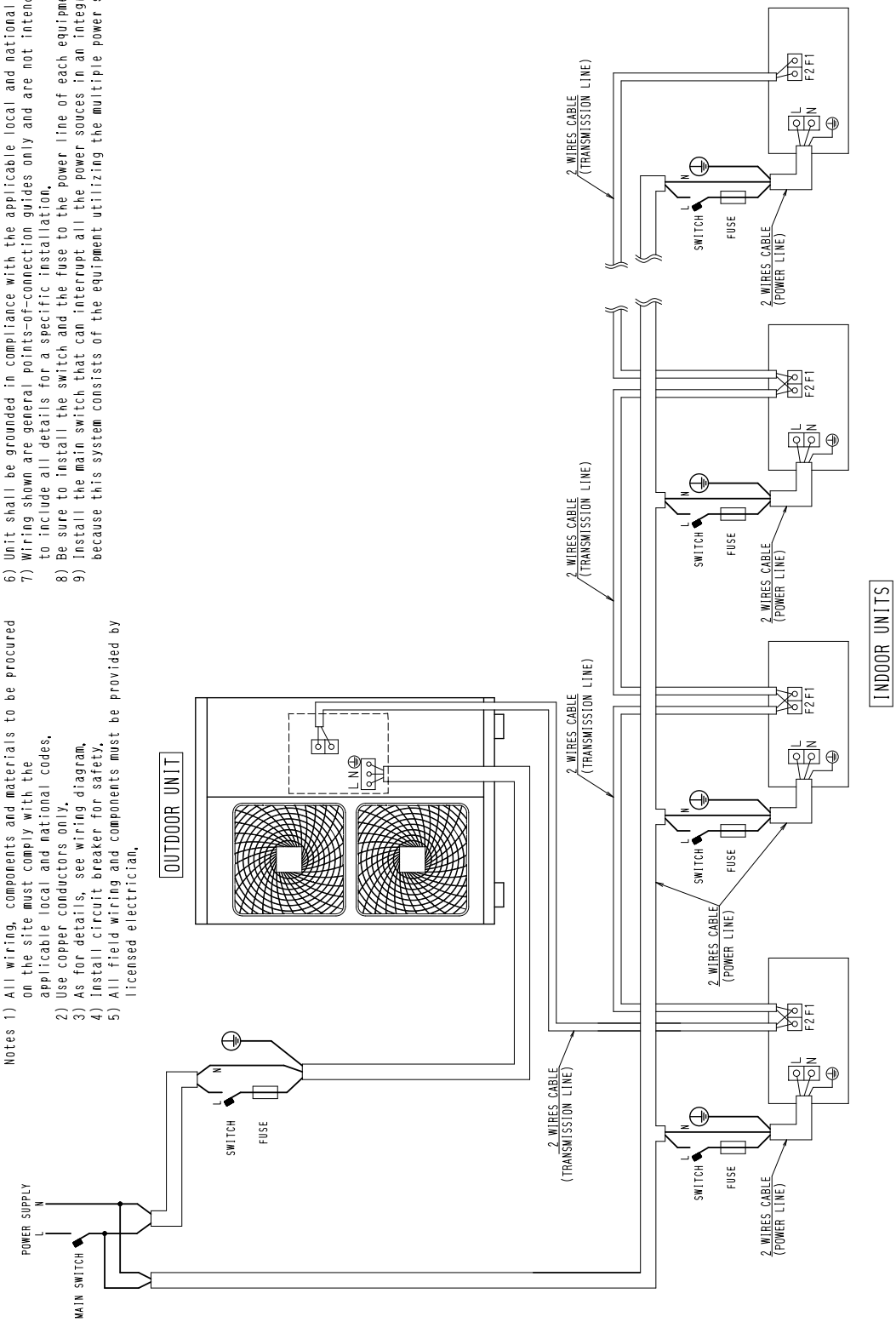
### RXM4·5·6MVM



# 6. Field Wiring

**RXYM4·5·6MVM(T)**
**RXM4·5·6MVM**

3D044912

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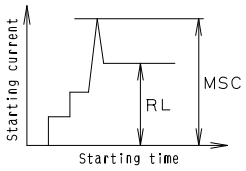
# 7. Electric Characteristics

## RXYM4MVM(T)
## RXM4MVM

3D044911

| Model | | Units | | | | Power supply | | | Comp. | | OFM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Outdoor | H/P C/O | Hz | Volts | Min. | Max. | MCA | TOCA | MFA | MSC | RLA | KW | FLA |
| RXYM4MVM | H/P | 50 | 220 230 | 198 | 253 | 27.0 | 27.0 | 30 | 16.3 | 16.3 | 0.070 + 0.070 | 0.3 + 0.3 |
| RXYM5MVM | H/P | 50 | 220 230 | 198 | 253 | 27.0 | 27.0 | 30 | 21.4 | 21.4 | 0.070 + 0.070 | 0.3 + 0.3 |
| RXYM6MVM | H/P | 50 | 220 230 | 198 | 253 | 27.0 | 27.0 | 30 | 25.2 | 25.2 | 0.070 + 0.070 | 0.3 + 0.3 |
| RXM4MVM | C/O | 50 | 220 230 | 198 | 253 | 27.0 | 27.0 | 30 | 14.5 | 14.5 | 0.070 + 0.070 | 0.3 + 0.3 |
| RXM5MVM | C/O | 50 | 220 230 | 198 | 253 | 27.0 | 27.0 | 30 | 20.0 | 20.0 | 0.070 + 0.070 | 0.3 + 0.3 |
| RXM6MVM | C/O | 50 | 220 230 | 198 | 253 | 27.0 | 27.0 | 30 | 24.9 | 24.9 | 0.070 + 0.070 | 0.3 + 0.3 |
| RXYM4MVMT | H/P | 60 | 220 | 198 | 242 | 27.0 | 27.0 | 30 | 16.3 | 16.3 | 0.070 + 0.070 | 0.3 + 0.3 |
| RXYM5MVMT | H/P | 60 | 220 | 198 | 242 | 27.0 | 27.0 | 30 | 21.4 | 21.4 | 0.070 + 0.070 | 0.3 + 0.3 |
| RXYM6MVMT | H/P | 60 | 220 | 198 | 242 | 27.0 | 27.0 | 30 | 25.2 | 25.2 | 0.070 + 0.070 | 0.3 + 0.3 |

The relationship between the starting time and the starting current.




**Notes:**

1. RLA is based on the following conditions.
   Power supply : 50Hz 220V～230V / 60Hz 220V
   Cooling
   Indoor temp. 27°C DB/19.0°C WB
   Outdoor temp. 35°C DB
   Heating
   Indoor temp. 20°C DB
   Outdoor temp. 7.0°C DB/6.0°C WB
2. TOCA means the total value of each OC set.
3. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
4. Maximum allowable voltage variation between phases is 2%.
5. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
6. Select wire size based on the larger value of MCA or TOCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

**Symbols:**

MCA :Min. Circuit Amps. (A)
TOCA :Total Over-current Amps. (A)
MFA :Max. Fuse Amps(See note7). (A)
MSC :Max. current during the Starting compressor. (A)
RLA :Rated Load Amps. (A)
OFM :Outdoor Fan Motor. (A)
FLA :Full Load Amps. (A)
kW :Fan Motor Rated Output (kW)

# 8. Capacity Tables

## 8.1 50/60Hz

### 8.1.1 Cooling Capacity

**RXM4MVM, RXY4MVM (T)**

Cooling capacity

| Combination (%) (Capacity index) | Outdoor air temp. °CDB | Indoor air temp. °CWB | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0 | | 16.0 | | 18.0 | | 19.0 | | 20.0 | | 22.0 | | 24.0 | |
| | | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW |
| 130 (130) | 10 | 10.1 | 1.44 | 11.9 | 1.71 | 13.7 | 1.98 | 14.4 | 2.10 | 15.1 | 2.20 | 16.3 | 2.38 | 17.6 | 2.53 |
| | 12 | 10.1 | 1.46 | 11.9 | 1.74 | 13.7 | 2.02 | 14.3 | 2.12 | 15.0 | 2.22 | 16.3 | 2.40 | 17.6 | 2.61 |
| | 14 | 10.1 | 1.49 | 11.9 | 1.77 | 13.6 | 2.04 | 14.3 | 2.15 | 14.9 | 2.25 | 16.2 | 2.51 | 17.5 | 2.81 |
| | 16 | 10.1 | 1.51 | 11.9 | 1.80 | 13.6 | 2.07 | 14.2 | 2.21 | 14.9 | 2.37 | 16.2 | 2.70 | 17.5 | 3.02 |
| | 18 | 10.1 | 1.54 | 11.9 | 1.83 | 13.5 | 2.20 | 14.2 | 2.37 | 14.8 | 2.55 | 16.1 | 2.89 | 17.4 | 3.24 |
| | 20 | 10.1 | 1.57 | 11.9 | 1.96 | 13.5 | 2.36 | 14.1 | 2.54 | 14.7 | 2.73 | 16.0 | 3.10 | 17.1 | 3.47 |
| | 21 | 10.1 | 1.63 | 11.9 | 2.03 | 13.4 | 2.44 | 14.1 | 2.63 | 14.7 | 2.82 | 16.0 | 3.20 | 17.0 | 3.58 |
| | 23 | 10.1 | 1.74 | 11.9 | 2.18 | 13.4 | 2.60 | 14.0 | 2.81 | 14.7 | 3.01 | 15.9 | 3.42 | 16.8 | 3.82 |
| | 25 | 10.1 | 1.86 | 11.9 | 2.33 | 13.3 | 2.78 | 13.9 | 2.99 | 14.6 | 3.21 | 15.9 | 3.64 | 16.6 | 4.07 |
| | 27 | 10.1 | 1.99 | 11.9 | 2.49 | 13.2 | 2.96 | 13.9 | 3.19 | 14.5 | 3.42 | 15.8 | 3.87 | 16.3 | 4.33 |
| | 29 | 10.1 | 2.12 | 11.9 | 2.66 | 13.2 | 3.14 | 13.8 | 3.39 | 14.5 | 3.63 | 15.8 | 4.12 | 16.1 | 4.60 |
| | 31 | 10.1 | 2.26 | 11.8 | 2.82 | 13.1 | 3.34 | 13.8 | 3.60 | 14.4 | 3.85 | 15.6 | 4.37 | 15.9 | 4.88 |
| | 33 | 10.1 | 2.41 | 11.8 | 3.00 | 13.1 | 3.54 | 13.7 | 3.81 | 14.3 | 4.08 | 15.3 | 4.63 | 15.6 | 4.99 |
| | 35 | 10.1 | 2.56 | 11.7 | 3.18 | 13.0 | 3.75 | 13.6 | 4.04 | 14.3 | 4.33 | 15.1 | 4.90 | 15.4 | 4.99 |
| | 37 | 10.1 | 2.72 | 11.6 | 3.37 | 12.9 | 3.97 | 13.6 | 4.28 | 14.2 | 4.58 | 14.9 | 4.99 | 15.2 | 4.99 |
| | 39 | 10.1 | 2.89 | 11.6 | 3.56 | 12.9 | 4.20 | 13.5 | 4.52 | 14.2 | 4.84 | 14.6 | 4.99 | 15.0 | 4.99 |
| 120 (120) | 10 | 9.28 | 1.33 | 10.9 | 1.57 | 12.6 | 1.82 | 13.4 | 1.95 | 14.2 | 2.06 | 15.4 | 2.25 | 16.6 | 2.41 |
| | 12 | 9.28 | 1.35 | 10.9 | 1.60 | 12.6 | 1.85 | 13.4 | 1.98 | 14.1 | 2.09 | 15.3 | 2.27 | 16.5 | 2.43 |
| | 14 | 9.28 | 1.37 | 10.9 | 1.63 | 12.6 | 1.89 | 13.4 | 2.02 | 14.1 | 2.12 | 15.3 | 2.30 | 16.5 | 2.56 |
| | 16 | 9.28 | 1.39 | 10.9 | 1.65 | 12.6 | 1.92 | 13.4 | 2.04 | 14.0 | 2.16 | 15.2 | 2.46 | 16.4 | 2.76 |
| | 18 | 9.28 | 1.42 | 10.9 | 1.68 | 12.6 | 1.99 | 13.4 | 2.16 | 14.0 | 2.32 | 15.1 | 2.64 | 16.3 | 2.96 |
| | 20 | 9.28 | 1.44 | 10.9 | 1.76 | 12.6 | 2.14 | 13.3 | 2.31 | 13.9 | 2.48 | 15.1 | 2.82 | 16.3 | 3.17 |
| | 21 | 9.28 | 1.47 | 10.9 | 1.82 | 12.6 | 2.21 | 13.3 | 2.39 | 13.9 | 2.57 | 15.1 | 2.92 | 16.2 | 3.27 |
| | 23 | 9.28 | 1.57 | 10.9 | 1.95 | 12.6 | 2.37 | 13.2 | 2.55 | 13.8 | 2.74 | 15.0 | 3.12 | 16.2 | 3.49 |
| | 25 | 9.28 | 1.68 | 10.9 | 2.09 | 12.5 | 2.53 | 13.1 | 2.72 | 13.7 | 2.92 | 14.9 | 3.32 | 16.1 | 3.72 |
| | 27 | 9.28 | 1.79 | 10.9 | 2.23 | 12.5 | 2.69 | 13.1 | 2.90 | 13.7 | 3.11 | 14.9 | 3.54 | 16.1 | 3.96 |
| | 29 | 9.28 | 1.91 | 10.9 | 2.38 | 12.4 | 2.86 | 13.0 | 3.08 | 13.6 | 3.31 | 14.8 | 3.76 | 15.8 | 4.21 |
| | 31 | 9.28 | 2.03 | 10.9 | 2.54 | 12.4 | 3.04 | 13.0 | 3.28 | 13.6 | 3.51 | 14.7 | 3.99 | 15.6 | 4.46 |
| | 33 | 9.28 | 2.16 | 10.9 | 2.70 | 12.3 | 3.22 | 12.9 | 3.47 | 13.5 | 3.73 | 14.7 | 4.23 | 15.4 | 4.73 |
| | 35 | 9.28 | 2.30 | 10.9 | 2.88 | 12.2 | 3.42 | 12.8 | 3.68 | 13.4 | 3.95 | 14.6 | 4.48 | 15.2 | 4.99 |
| | 37 | 9.28 | 2.44 | 10.9 | 3.06 | 12.2 | 3.62 | 12.8 | 3.90 | 13.4 | 4.18 | 14.6 | 4.74 | 14.9 | 4.99 |
| | 39 | 9.28 | 2.59 | 10.9 | 3.24 | 12.1 | 3.83 | 12.7 | 4.13 | 13.3 | 4.42 | 14.4 | 4.99 | 14.7 | 4.99 |
| 110 (110) | 10 | 8.51 | 1.22 | 10.0 | 1.44 | 11.6 | 1.67 | 12.3 | 1.78 | 13.1 | 1.90 | 14.4 | 2.10 | 15.5 | 2.27 |
| | 12 | 8.51 | 1.23 | 10.0 | 1.46 | 11.6 | 1.69 | 12.3 | 1.81 | 13.1 | 1.93 | 14.4 | 2.13 | 15.5 | 2.29 |
| | 14 | 8.51 | 1.25 | 10.0 | 1.49 | 11.6 | 1.72 | 12.3 | 1.84 | 13.1 | 1.96 | 14.3 | 2.16 | 15.4 | 2.32 |
| | 16 | 8.51 | 1.28 | 10.0 | 1.51 | 11.6 | 1.75 | 12.3 | 1.87 | 13.1 | 1.99 | 14.3 | 2.22 | 15.3 | 2.49 |
| | 18 | 8.51 | 1.30 | 10.0 | 1.54 | 11.6 | 1.78 | 12.3 | 1.93 | 13.1 | 2.09 | 14.2 | 2.38 | 15.3 | 2.68 |
| | 20 | 8.51 | 1.32 | 10.0 | 1.57 | 11.6 | 1.89 | 12.3 | 2.07 | 13.0 | 2.24 | 14.1 | 2.55 | 15.2 | 2.86 |
| | 21 | 8.51 | 1.33 | 10.0 | 1.62 | 11.6 | 1.96 | 12.3 | 2.14 | 13.0 | 2.32 | 14.1 | 2.64 | 15.2 | 2.96 |
| | 23 | 8.51 | 1.41 | 10.0 | 1.74 | 11.6 | 2.10 | 12.3 | 2.30 | 12.9 | 2.47 | 14.0 | 2.82 | 15.1 | 3.16 |
| | 25 | 8.51 | 1.50 | 10.0 | 1.86 | 11.6 | 2.25 | 12.3 | 2.46 | 12.9 | 2.64 | 14.0 | 3.00 | 15.1 | 3.37 |
| | 27 | 8.51 | 1.60 | 10.0 | 1.98 | 11.6 | 2.40 | 12.3 | 2.62 | 12.8 | 2.81 | 13.9 | 3.20 | 15.0 | 3.59 |
| | 29 | 8.51 | 1.71 | 10.0 | 2.11 | 11.6 | 2.57 | 12.2 | 2.78 | 12.8 | 2.99 | 13.9 | 3.40 | 15.0 | 3.81 |
| | 31 | 8.51 | 1.82 | 10.0 | 2.25 | 11.6 | 2.74 | 12.2 | 2.96 | 12.7 | 3.17 | 13.8 | 3.61 | 14.9 | 4.04 |
| | 33 | 8.51 | 1.93 | 10.0 | 2.40 | 11.5 | 2.91 | 12.1 | 3.14 | 12.6 | 3.37 | 13.7 | 3.83 | 14.8 | 4.29 |
| | 35 | 8.51 | 2.05 | 10.0 | 2.55 | 11.5 | 3.08 | 12.0 | 3.32 | 12.6 | 3.57 | 13.7 | 4.05 | 14.8 | 4.54 |
| | 37 | 8.51 | 2.18 | 10.0 | 2.71 | 11.4 | 3.27 | 12.0 | 3.52 | 12.5 | 3.78 | 13.6 | 4.29 | 14.7 | 4.80 |
| | 39 | 8.51 | 2.31 | 10.0 | 2.88 | 11.4 | 3.46 | 11.9 | 3.73 | 12.5 | 4.00 | 13.5 | 4.54 | 14.4 | 4.99 |
| 100 (100) | 10 | 7.74 | 1.11 | 9.12 | 1.30 | 10.5 | 1.51 | 11.2 | 1.61 | 11.9 | 1.72 | 13.3 | 1.93 | 14.5 | 2.11 |
| | 12 | 7.74 | 1.12 | 9.12 | 1.32 | 10.5 | 1.53 | 11.2 | 1.64 | 11.9 | 1.74 | 13.3 | 1.96 | 14.4 | 2.14 |
| | 14 | 7.74 | 1.14 | 9.12 | 1.35 | 10.5 | 1.56 | 11.2 | 1.67 | 11.9 | 1.77 | 13.3 | 1.99 | 14.4 | 2.16 |
| | 16 | 7.74 | 1.16 | 9.12 | 1.37 | 10.5 | 1.58 | 11.2 | 1.69 | 11.9 | 1.80 | 13.3 | 2.02 | 14.3 | 2.23 |
| | 18 | 7.74 | 1.18 | 9.12 | 1.39 | 10.5 | 1.61 | 11.2 | 1.72 | 11.9 | 1.83 | 13.2 | 2.13 | 14.2 | 2.39 |
| | 20 | 7.74 | 1.20 | 9.12 | 1.42 | 10.5 | 1.67 | 11.2 | 1.82 | 11.9 | 1.97 | 13.2 | 2.28 | 14.2 | 2.56 |
| | 21 | 7.74 | 1.21 | 9.12 | 1.44 | 10.5 | 1.73 | 11.2 | 1.88 | 11.9 | 2.04 | 13.1 | 2.36 | 14.1 | 2.65 |
| | 23 | 7.74 | 1.25 | 9.12 | 1.54 | 10.5 | 1.85 | 11.2 | 2.01 | 11.9 | 2.19 | 13.1 | 2.52 | 14.1 | 2.83 |
| | 25 | 7.74 | 1.34 | 9.12 | 1.64 | 10.5 | 1.98 | 11.2 | 2.15 | 11.9 | 2.34 | 13.0 | 2.69 | 14.0 | 3.02 |
| | 27 | 7.74 | 1.42 | 9.12 | 1.75 | 10.5 | 2.11 | 11.2 | 2.30 | 11.9 | 2.50 | 13.0 | 2.86 | 14.0 | 3.21 |
| | 29 | 7.74 | 1.51 | 9.12 | 1.87 | 10.5 | 2.25 | 11.2 | 2.46 | 11.9 | 2.67 | 12.9 | 3.04 | 13.9 | 3.41 |
| | 31 | 7.74 | 1.61 | 9.12 | 1.99 | 10.5 | 2.40 | 11.2 | 2.62 | 11.8 | 2.83 | 12.8 | 3.23 | 13.8 | 3.62 |
| | 33 | 7.74 | 1.71 | 9.12 | 2.11 | 10.5 | 2.55 | 11.2 | 2.79 | 11.8 | 3.01 | 12.8 | 3.43 | 13.8 | 3.84 |
| | 35 | 7.74 | 1.82 | 9.12 | 2.24 | 10.5 | 2.72 | 11.2 | 2.97 | 11.7 | 3.19 | 12.7 | 3.63 | 13.7 | 4.07 |
| | 37 | 7.74 | 1.93 | 9.12 | 2.38 | 10.5 | 2.89 | 11.2 | 3.14 | 11.7 | 3.38 | 12.7 | 3.84 | 13.7 | 4.31 |
| | 39 | 7.74 | 2.04 | 9.12 | 2.53 | 10.5 | 3.07 | 11.1 | 3.33 | 11.6 | 3.58 | 12.6 | 4.07 | 13.6 | 4.56 |

TC Total capacity ; kW
PI Power Input ; kW (Comp.+Outdoor fan motor)

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**Cooling capacity**

| Combination (%) (Capacity index) | Outdoor air temp. °CDB | Indoor air temp. °CWB | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0 | | 16.0 | | 18.0 | | 19.0 | | 20.0 | | 22.0 | | 24.0 | |
| | | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW |
| 90 (90) | 10 | 6.96 | 1.00 | 8.21 | 1.17 | 9.46 | 1.35 | 10.1 | 1.44 | 10.7 | 1.54 | 12.0 | 1.72 | 13.2 | 1.91 |
| | 12 | 6.96 | 1.01 | 8.21 | 1.19 | 9.46 | 1.37 | 10.1 | 1.47 | 10.7 | 1.56 | 12.0 | 1.75 | 13.2 | 1.94 |
| | 14 | 6.96 | 1.03 | 8.21 | 1.21 | 9.46 | 1.40 | 10.1 | 1.49 | 10.7 | 1.59 | 12.0 | 1.78 | 13.2 | 1.98 |
| | 16 | 6.96 | 1.05 | 8.21 | 1.23 | 9.46 | 1.42 | 10.1 | 1.52 | 10.7 | 1.62 | 12.0 | 1.81 | 13.2 | 2.01 |
| | 18 | 6.96 | 1.06 | 8.21 | 1.25 | 9.46 | 1.44 | 10.1 | 1.54 | 10.7 | 1.64 | 12.0 | 1.85 | 13.2 | 2.11 |
| | 20 | 6.96 | 1.08 | 8.21 | 1.27 | 9.46 | 1.47 | 10.1 | 1.58 | 10.7 | 1.71 | 12.0 | 1.98 | 13.1 | 2.26 |
| | 21 | 6.96 | 1.09 | 8.21 | 1.28 | 9.46 | 1.50 | 10.1 | 1.63 | 10.7 | 1.77 | 12.0 | 2.05 | 13.1 | 2.34 |
| | 23 | 6.96 | 1.11 | 8.21 | 1.35 | 9.46 | 1.61 | 10.1 | 1.75 | 10.7 | 1.89 | 12.0 | 2.20 | 13.0 | 2.50 |
| | 25 | 6.96 | 1.18 | 8.21 | 1.44 | 9.46 | 1.72 | 10.1 | 1.87 | 10.7 | 2.03 | 12.0 | 2.36 | 13.0 | 2.67 |
| | 27 | 6.96 | 1.25 | 8.21 | 1.53 | 9.46 | 1.83 | 10.1 | 2.00 | 10.7 | 2.16 | 12.0 | 2.52 | 12.9 | 2.84 |
| | 29 | 6.96 | 1.33 | 8.21 | 1.63 | 9.46 | 1.95 | 10.1 | 2.13 | 10.7 | 2.31 | 11.9 | 2.68 | 12.8 | 3.02 |
| | 31 | 6.96 | 1.42 | 8.21 | 1.73 | 9.46 | 2.08 | 10.1 | 2.27 | 10.7 | 2.46 | 11.9 | 2.85 | 12.8 | 3.21 |
| | 33 | 6.96 | 1.50 | 8.21 | 1.84 | 9.46 | 2.21 | 10.1 | 2.41 | 10.7 | 2.62 | 11.8 | 3.02 | 12.7 | 3.40 |
| | 35 | 6.96 | 1.59 | 8.21 | 1.96 | 9.46 | 2.35 | 10.1 | 2.57 | 10.7 | 2.79 | 11.8 | 3.21 | 12.7 | 3.60 |
| | 37 | 6.96 | 1.69 | 8.21 | 2.08 | 9.46 | 2.50 | 10.1 | 2.73 | 10.7 | 2.96 | 11.7 | 3.40 | 12.6 | 3.82 |
| | 39 | 6.96 | 1.79 | 8.21 | 2.20 | 9.46 | 2.66 | 10.1 | 2.90 | 10.7 | 3.15 | 11.6 | 3.60 | 12.5 | 4.04 |
| 80 (80) | 10 | 6.19 | 0.89 | 7.30 | 1.04 | 8.41 | 1.20 | 8.96 | 1.28 | 9.51 | 1.36 | 10.6 | 1.52 | 11.7 | 1.69 |
| | 12 | 6.19 | 0.91 | 7.30 | 1.06 | 8.41 | 1.22 | 8.96 | 1.30 | 9.51 | 1.38 | 10.6 | 1.55 | 11.7 | 1.72 |
| | 14 | 6.19 | 0.92 | 7.30 | 1.08 | 8.41 | 1.24 | 8.96 | 1.32 | 9.51 | 1.41 | 10.6 | 1.58 | 11.7 | 1.75 |
| | 16 | 6.19 | 0.93 | 7.30 | 1.09 | 8.41 | 1.26 | 8.96 | 1.34 | 9.51 | 1.43 | 10.6 | 1.60 | 11.7 | 1.78 |
| | 18 | 6.19 | 0.95 | 7.30 | 1.11 | 8.41 | 1.28 | 8.96 | 1.37 | 9.51 | 1.45 | 10.6 | 1.63 | 11.7 | 1.81 |
| | 20 | 6.19 | 0.96 | 7.30 | 1.13 | 8.41 | 1.30 | 8.96 | 1.39 | 9.51 | 1.48 | 10.6 | 1.69 | 11.7 | 1.93 |
| | 21 | 6.19 | 0.97 | 7.30 | 1.14 | 8.41 | 1.31 | 8.96 | 1.40 | 9.51 | 1.52 | 10.6 | 1.75 | 11.7 | 2.00 |
| | 23 | 6.19 | 0.99 | 7.30 | 1.17 | 8.41 | 1.39 | 8.96 | 1.50 | 9.51 | 1.62 | 10.6 | 1.88 | 11.7 | 2.15 |
| | 25 | 6.19 | 1.03 | 7.30 | 1.25 | 8.41 | 1.48 | 8.96 | 1.60 | 9.51 | 1.73 | 10.6 | 2.00 | 11.7 | 2.30 |
| | 27 | 6.19 | 1.10 | 7.30 | 1.33 | 8.41 | 1.58 | 8.96 | 1.71 | 9.51 | 1.85 | 10.6 | 2.14 | 11.7 | 2.45 |
| | 29 | 6.19 | 1.16 | 7.30 | 1.41 | 8.41 | 1.68 | 8.96 | 1.82 | 9.51 | 1.97 | 10.6 | 2.28 | 11.7 | 2.62 |
| | 31 | 6.19 | 1.24 | 7.30 | 1.50 | 8.41 | 1.79 | 8.96 | 1.94 | 9.51 | 2.10 | 10.6 | 2.43 | 11.7 | 2.79 |
| | 33 | 6.19 | 1.31 | 7.30 | 1.59 | 8.41 | 1.90 | 8.96 | 2.06 | 9.51 | 2.23 | 10.6 | 2.59 | 11.7 | 2.96 |
| | 35 | 6.19 | 1.39 | 7.30 | 1.69 | 8.41 | 2.02 | 8.96 | 2.19 | 9.51 | 2.37 | 10.6 | 2.76 | 11.6 | 3.14 |
| | 37 | 6.19 | 1.47 | 7.30 | 1.79 | 8.41 | 2.14 | 8.96 | 2.33 | 9.51 | 2.52 | 10.6 | 2.93 | 11.5 | 3.32 |
| | 39 | 6.19 | 1.56 | 7.30 | 1.90 | 8.41 | 2.27 | 8.96 | 2.47 | 9.51 | 2.68 | 10.6 | 3.12 | 11.5 | 3.52 |
| 70 (70) | 10 | 5.42 | 0.79 | 6.39 | 0.92 | 7.36 | 1.05 | 7.84 | 1.12 | 8.32 | 1.19 | 9.29 | 1.33 | 10.3 | 1.47 |
| | 12 | 5.42 | 0.80 | 6.39 | 0.93 | 7.36 | 1.07 | 7.84 | 1.14 | 8.32 | 1.21 | 9.29 | 1.35 | 10.3 | 1.50 |
| | 14 | 5.42 | 0.82 | 6.39 | 0.95 | 7.36 | 1.09 | 7.84 | 1.16 | 8.32 | 1.23 | 9.29 | 1.37 | 10.3 | 1.52 |
| | 16 | 5.42 | 0.83 | 6.39 | 0.96 | 7.36 | 1.10 | 7.84 | 1.17 | 8.32 | 1.25 | 9.29 | 1.40 | 10.3 | 1.55 |
| | 18 | 5.42 | 0.84 | 6.39 | 0.98 | 7.36 | 1.12 | 7.84 | 1.19 | 8.32 | 1.27 | 9.29 | 1.42 | 10.3 | 1.57 |
| | 20 | 5.42 | 0.85 | 6.39 | 0.99 | 7.36 | 1.14 | 7.84 | 1.21 | 8.32 | 1.29 | 9.29 | 1.44 | 10.3 | 1.62 |
| | 21 | 5.42 | 0.86 | 6.39 | 1.00 | 7.36 | 1.15 | 7.84 | 1.22 | 8.32 | 1.30 | 9.29 | 1.47 | 10.3 | 1.67 |
| | 23 | 5.42 | 0.87 | 6.39 | 1.02 | 7.36 | 1.18 | 7.84 | 1.27 | 8.32 | 1.37 | 9.29 | 1.57 | 10.3 | 1.79 |
| | 25 | 5.42 | 0.89 | 6.39 | 1.07 | 7.36 | 1.26 | 7.84 | 1.36 | 8.32 | 1.46 | 9.29 | 1.68 | 10.3 | 1.91 |
| | 27 | 5.42 | 0.95 | 6.39 | 1.14 | 7.36 | 1.34 | 7.84 | 1.45 | 8.32 | 1.56 | 9.29 | 1.79 | 10.3 | 2.04 |
| | 29 | 5.42 | 1.01 | 6.39 | 1.21 | 7.36 | 1.42 | 7.84 | 1.54 | 8.32 | 1.66 | 9.29 | 1.91 | 10.3 | 2.18 |
| | 31 | 5.42 | 1.07 | 6.39 | 1.28 | 7.36 | 1.51 | 7.84 | 1.64 | 8.32 | 1.76 | 9.29 | 2.03 | 10.3 | 2.32 |
| | 33 | 5.42 | 1.13 | 6.39 | 1.36 | 7.36 | 1.61 | 7.84 | 1.74 | 8.32 | 1.88 | 9.29 | 2.16 | 10.3 | 2.47 |
| | 35 | 5.42 | 1.19 | 6.39 | 1.44 | 7.36 | 1.70 | 7.84 | 1.85 | 8.32 | 1.99 | 9.29 | 2.30 | 10.3 | 2.63 |
| | 37 | 5.42 | 1.26 | 6.39 | 1.52 | 7.36 | 1.81 | 7.84 | 1.96 | 8.32 | 2.11 | 9.29 | 2.44 | 10.3 | 2.80 |
| | 39 | 5.42 | 1.34 | 6.39 | 1.61 | 7.36 | 1.92 | 7.84 | 2.08 | 8.32 | 2.24 | 9.29 | 2.60 | 10.3 | 2.97 |
| 60 (60) | 10 | 4.64 | 0.70 | 5.47 | 0.80 | 6.30 | 0.91 | 6.72 | 0.97 | 7.14 | 1.02 | 7.97 | 1.14 | 8.80 | 1.26 |
| | 12 | 4.64 | 0.70 | 5.47 | 0.81 | 6.30 | 0.92 | 6.72 | 0.98 | 7.14 | 1.04 | 7.97 | 1.16 | 8.80 | 1.28 |
| | 14 | 4.64 | 0.71 | 5.47 | 0.82 | 6.30 | 0.94 | 6.72 | 0.99 | 7.14 | 1.05 | 7.97 | 1.17 | 8.80 | 1.30 |
| | 16 | 4.64 | 0.72 | 5.47 | 0.84 | 6.30 | 0.95 | 6.72 | 1.01 | 7.14 | 1.07 | 7.97 | 1.19 | 8.80 | 1.32 |
| | 18 | 4.64 | 0.73 | 5.47 | 0.85 | 6.30 | 0.97 | 6.72 | 1.03 | 7.14 | 1.09 | 7.97 | 1.21 | 8.80 | 1.34 |
| | 20 | 4.64 | 0.74 | 5.47 | 0.86 | 6.30 | 0.98 | 6.72 | 1.04 | 7.14 | 1.11 | 7.97 | 1.23 | 8.80 | 1.36 |
| | 21 | 4.64 | 0.75 | 5.47 | 0.87 | 6.30 | 0.99 | 6.72 | 1.05 | 7.14 | 1.11 | 7.97 | 1.24 | 8.80 | 1.38 |
| | 23 | 4.64 | 0.76 | 5.47 | 0.88 | 6.30 | 1.01 | 6.72 | 1.07 | 7.14 | 1.14 | 7.97 | 1.30 | 8.80 | 1.47 |
| | 25 | 4.64 | 0.77 | 5.47 | 0.90 | 6.30 | 1.05 | 6.72 | 1.13 | 7.14 | 1.21 | 7.97 | 1.38 | 8.80 | 1.57 |
| | 27 | 4.64 | 0.81 | 5.47 | 0.96 | 6.30 | 1.12 | 6.72 | 1.20 | 7.14 | 1.29 | 7.97 | 1.48 | 8.80 | 1.67 |
| | 29 | 4.64 | 0.86 | 5.47 | 1.02 | 6.30 | 1.19 | 6.72 | 1.28 | 7.14 | 1.37 | 7.97 | 1.57 | 8.80 | 1.78 |
| | 31 | 4.64 | 0.91 | 5.47 | 1.08 | 6.30 | 1.26 | 6.72 | 1.36 | 7.14 | 1.46 | 7.97 | 1.67 | 8.80 | 1.89 |
| | 33 | 4.64 | 0.96 | 5.47 | 1.14 | 6.30 | 1.34 | 6.72 | 1.44 | 7.14 | 1.55 | 7.97 | 1.77 | 8.80 | 2.01 |
| | 35 | 4.64 | 1.02 | 5.47 | 1.21 | 6.30 | 1.42 | 6.72 | 1.53 | 7.14 | 1.64 | 7.97 | 1.88 | 8.80 | 2.14 |
| | 37 | 4.64 | 1.07 | 5.47 | 1.28 | 6.30 | 1.50 | 6.72 | 1.62 | 7.14 | 1.74 | 7.97 | 2.00 | 8.80 | 2.27 |
| | 39 | 4.64 | 1.13 | 5.47 | 1.35 | 6.30 | 1.59 | 6.72 | 1.71 | 7.14 | 1.85 | 7.97 | 2.12 | 8.80 | 2.41 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

Cooling capacity

| Combination (%) (Capacity index) | Outdoor air temp. °CDB | Indoor air temp. °CWB | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0 | | 16.0 | | 18.0 | | 19.0 | | 20.0 | | 22.0 | | 24.0 | |
| | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 50 (50) | 10 | 3.87 | 0.60 | 4.56 | 0.69 | 5.25 | 0.77 | 5.60 | 0.82 | 5.95 | 0.86 | 6.64 | 0.95 | 7.33 | 1.05 |
| | 12 | 3.87 | 0.61 | 4.56 | 0.69 | 5.25 | 0.78 | 5.60 | 0.83 | 5.95 | 0.87 | 6.64 | 0.97 | 7.33 | 1.07 |
| | 14 | 3.87 | 0.62 | 4.56 | 0.70 | 5.25 | 0.79 | 5.60 | 0.84 | 5.95 | 0.89 | 6.64 | 0.98 | 7.33 | 1.08 |
| | 16 | 3.87 | 0.62 | 4.56 | 0.71 | 5.25 | 0.81 | 5.60 | 0.85 | 5.95 | 0.90 | 6.64 | 1.00 | 7.33 | 1.10 |
| | 18 | 3.87 | 0.63 | 4.56 | 0.72 | 5.25 | 0.82 | 5.60 | 0.87 | 5.95 | 0.91 | 6.64 | 1.01 | 7.33 | 1.12 |
| | 20 | 3.87 | 0.64 | 4.56 | 0.73 | 5.25 | 0.83 | 5.60 | 0.88 | 5.95 | 0.93 | 6.64 | 1.03 | 7.33 | 1.14 |
| | 21 | 3.87 | 0.65 | 4.56 | 0.74 | 5.25 | 0.84 | 5.60 | 0.89 | 5.95 | 0.94 | 6.64 | 1.04 | 7.33 | 1.14 |
| | 23 | 3.87 | 0.65 | 4.56 | 0.75 | 5.25 | 0.85 | 5.60 | 0.90 | 5.95 | 0.95 | 6.64 | 1.06 | 7.33 | 1.17 |
| | 25 | 3.87 | 0.66 | 4.56 | 0.76 | 5.25 | 0.86 | 5.60 | 0.92 | 5.95 | 0.99 | 6.64 | 1.12 | 7.33 | 1.25 |
| | 27 | 3.87 | 0.68 | 4.56 | 0.80 | 5.25 | 0.92 | 5.60 | 0.98 | 5.95 | 1.05 | 6.64 | 1.19 | 7.33 | 1.33 |
| | 29 | 3.87 | 0.72 | 4.56 | 0.84 | 5.25 | 0.97 | 5.60 | 1.04 | 5.95 | 1.11 | 6.64 | 1.26 | 7.33 | 1.42 |
| | 31 | 3.87 | 0.76 | 4.56 | 0.89 | 5.25 | 1.03 | 5.60 | 1.11 | 5.95 | 1.18 | 6.64 | 1.34 | 7.33 | 1.51 |
| | 33 | 3.87 | 0.81 | 4.56 | 0.94 | 5.25 | 1.09 | 5.60 | 1.17 | 5.95 | 1.25 | 6.64 | 1.42 | 7.33 | 1.60 |
| | 35 | 3.87 | 0.85 | 4.56 | 1.00 | 5.25 | 1.16 | 5.60 | 1.24 | 5.95 | 1.33 | 6.64 | 1.51 | 7.33 | 1.70 |
| | 37 | 3.87 | 0.90 | 4.56 | 1.05 | 5.25 | 1.22 | 5.60 | 1.31 | 5.95 | 1.40 | 6.64 | 1.60 | 7.33 | 1.80 |
| | 39 | 3.87 | 0.94 | 4.56 | 1.11 | 5.25 | 1.29 | 5.60 | 1.39 | 5.95 | 1.48 | 6.64 | 1.69 | 7.33 | 1.91 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

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## RXM5MVM, RXYM5MVM (T)

**Cooling capacity**

| Combination (%) (Capacity index) | Outdoor air temp. °CDB | Indoor air temp. °CWB | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0 | | 16.0 | | 18.0 | | 19.0 | | 20.0 | | 22.0 | | 24.0 | |
| | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 130 (162.5) | 10 | 12.6 | 2.01 | 14.8 | 2.38 | 17.1 | 2.76 | 18.0 | 2.92 | 18.8 | 3.06 | 20.1 | 3.31 | 20.5 | 3.52 |
| | 12 | 12.6 | 2.04 | 14.8 | 2.42 | 17.1 | 2.81 | 17.9 | 2.96 | 18.7 | 3.10 | 19.9 | 3.35 | 20.3 | 3.63 |
| | 14 | 12.6 | 2.08 | 14.8 | 2.46 | 17.0 | 2.85 | 17.9 | 3.00 | 18.7 | 3.14 | 19.6 | 3.50 | 20.0 | 3.92 |
| | 16 | 12.6 | 2.11 | 14.8 | 2.51 | 17.0 | 2.88 | 17.8 | 3.08 | 18.6 | 3.31 | 19.4 | 3.76 | 19.8 | 4.21 |
| | 18 | 12.6 | 2.15 | 14.8 | 2.55 | 16.9 | 3.07 | 17.7 | 3.31 | 18.5 | 3.55 | 19.1 | 4.03 | 19.5 | 4.52 |
| | 20 | 12.6 | 2.19 | 14.8 | 2.74 | 16.8 | 3.29 | 17.6 | 3.54 | 18.4 | 3.80 | 18.9 | 4.32 | 19.2 | 4.83 |
| | 21 | 12.6 | 2.27 | 14.8 | 2.83 | 16.8 | 3.40 | 17.6 | 3.67 | 18.3 | 3.93 | 18.7 | 4.46 | 19.1 | 5.00 |
| | 23 | 12.6 | 2.43 | 14.8 | 3.04 | 16.7 | 3.63 | 17.5 | 3.91 | 18.1 | 4.20 | 18.5 | 4.76 | 18.9 | 5.22 |
| | 25 | 12.6 | 2.60 | 14.8 | 3.25 | 16.6 | 3.87 | 17.4 | 4.17 | 17.8 | 4.47 | 18.2 | 5.08 | 18.6 | 5.22 |
| | 27 | 12.6 | 2.77 | 14.8 | 3.47 | 16.5 | 4.12 | 17.4 | 4.44 | 17.6 | 4.76 | 18.0 | 5.22 | 18.4 | 5.22 |
| | 29 | 12.6 | 2.96 | 14.8 | 3.70 | 16.5 | 4.38 | 17.1 | 4.72 | 17.3 | 5.06 | 17.7 | 5.22 | 18.1 | 5.22 |
| | 31 | 12.6 | 3.15 | 14.8 | 3.94 | 16.4 | 4.65 | 16.9 | 5.01 | 17.1 | 5.22 | 17.5 | 5.22 | 17.8 | 5.22 |
| | 33 | 12.6 | 3.35 | 14.7 | 4.18 | 16.3 | 4.94 | 16.6 | 5.22 | 16.8 | 5.22 | 17.2 | 5.22 | 17.6 | 5.22 |
| | 35 | 12.6 | 3.57 | 14.6 | 4.43 | 16.2 | 5.22 | 16.4 | 5.22 | 16.6 | 5.22 | 16.9 | 5.22 | 17.3 | 5.22 |
| | 37 | 12.6 | 3.79 | 14.5 | 4.69 | 15.9 | 5.22 | 16.1 | 5.22 | 16.3 | 5.22 | 16.7 | 5.22 | 17.1 | 5.22 |
| | 39 | 12.6 | 4.03 | 14.5 | 4.97 | 15.7 | 5.22 | 15.9 | 5.22 | 16.0 | 5.22 | 16.4 | 5.22 | 16.8 | 5.22 |
| 120 (150) | 10 | 11.6 | 1.85 | 13.7 | 2.19 | 15.8 | 2.54 | 16.8 | 2.72 | 17.7 | 2.88 | 19.2 | 3.13 | 20.2 | 3.35 |
| | 12 | 11.6 | 1.88 | 13.7 | 2.23 | 15.8 | 2.58 | 16.8 | 2.76 | 17.7 | 2.91 | 19.2 | 3.17 | 19.9 | 3.39 |
| | 14 | 11.6 | 1.91 | 13.7 | 2.27 | 15.8 | 2.63 | 16.8 | 2.81 | 17.6 | 2.95 | 19.1 | 3.20 | 19.7 | 3.57 |
| | 16 | 11.6 | 1.94 | 13.7 | 2.30 | 15.8 | 2.67 | 16.8 | 2.85 | 17.5 | 3.01 | 19.0 | 3.43 | 19.4 | 3.84 |
| | 18 | 11.6 | 1.98 | 13.7 | 2.34 | 15.8 | 2.77 | 16.7 | 3.01 | 17.4 | 3.23 | 18.8 | 3.68 | 19.2 | 4.12 |
| | 20 | 11.6 | 2.01 | 13.7 | 2.45 | 15.8 | 2.98 | 16.6 | 3.22 | 17.4 | 3.46 | 18.6 | 3.94 | 18.9 | 4.41 |
| | 21 | 11.6 | 2.05 | 13.7 | 2.54 | 15.8 | 3.09 | 16.6 | 3.33 | 17.3 | 3.58 | 18.4 | 4.07 | 18.8 | 4.56 |
| | 23 | 11.6 | 2.19 | 13.7 | 2.72 | 15.8 | 3.30 | 16.5 | 3.56 | 17.2 | 3.82 | 18.2 | 4.35 | 18.5 | 4.87 |
| | 25 | 11.6 | 2.34 | 13.7 | 2.91 | 15.7 | 3.52 | 16.4 | 3.80 | 17.2 | 4.08 | 17.9 | 4.63 | 18.3 | 5.19 |
| | 27 | 11.6 | 2.50 | 13.7 | 3.11 | 15.6 | 3.75 | 16.4 | 4.04 | 17.1 | 4.34 | 17.7 | 4.93 | 18.0 | 5.22 |
| | 29 | 11.6 | 2.66 | 13.7 | 3.32 | 15.5 | 3.99 | 16.3 | 4.30 | 17.0 | 4.61 | 17.4 | 5.22 | 17.8 | 5.22 |
| | 31 | 11.6 | 2.83 | 13.7 | 3.54 | 15.5 | 4.23 | 16.2 | 4.57 | 16.8 | 4.90 | 17.2 | 5.22 | 17.5 | 5.22 |
| | 33 | 11.6 | 3.01 | 13.7 | 3.77 | 15.4 | 4.49 | 16.1 | 4.84 | 16.6 | 5.19 | 16.9 | 5.22 | 17.3 | 5.22 |
| | 35 | 11.6 | 3.20 | 13.7 | 4.01 | 15.3 | 4.76 | 16.0 | 5.13 | 16.3 | 5.22 | 16.7 | 5.22 | 17.0 | 5.22 |
| | 37 | 11.6 | 3.40 | 13.7 | 4.26 | 15.2 | 5.04 | 15.9 | 5.22 | 16.0 | 5.22 | 16.4 | 5.22 | 16.8 | 5.22 |
| | 39 | 11.6 | 3.61 | 13.7 | 4.52 | 15.1 | 5.22 | 15.6 | 5.22 | 15.8 | 5.22 | 16.2 | 5.22 | 16.5 | 5.22 |
| 110 (137.5) | 10 | 10.6 | 1.69 | 12.5 | 2.00 | 14.4 | 2.32 | 15.4 | 2.48 | 16.4 | 2.64 | 18.0 | 2.93 | 19.4 | 3.16 |
| | 12 | 10.6 | 1.72 | 12.5 | 2.04 | 14.4 | 2.36 | 15.4 | 2.52 | 16.4 | 2.69 | 18.0 | 2.97 | 19.3 | 3.20 |
| | 14 | 10.6 | 1.75 | 12.5 | 2.07 | 14.4 | 2.40 | 15.4 | 2.57 | 16.4 | 2.73 | 17.9 | 3.00 | 19.3 | 3.23 |
| | 16 | 10.6 | 1.78 | 12.5 | 2.11 | 14.4 | 2.44 | 15.4 | 2.61 | 16.4 | 2.78 | 17.8 | 3.09 | 19.1 | 3.48 |
| | 18 | 10.6 | 1.81 | 12.5 | 2.14 | 14.4 | 2.48 | 15.4 | 2.68 | 16.4 | 2.91 | 17.7 | 3.32 | 18.9 | 3.73 |
| | 20 | 10.6 | 1.84 | 12.5 | 2.19 | 14.4 | 2.64 | 15.4 | 2.88 | 16.3 | 3.12 | 17.7 | 3.56 | 18.6 | 3.99 |
| | 21 | 10.6 | 1.85 | 12.5 | 2.26 | 14.4 | 2.74 | 15.4 | 2.99 | 16.3 | 3.23 | 17.6 | 3.68 | 18.5 | 4.13 |
| | 23 | 10.6 | 1.96 | 12.5 | 2.42 | 14.4 | 2.93 | 15.4 | 3.20 | 16.2 | 3.45 | 17.6 | 3.93 | 18.2 | 4.41 |
| | 25 | 10.6 | 2.09 | 12.5 | 2.59 | 14.4 | 3.14 | 15.4 | 3.42 | 16.1 | 3.68 | 17.5 | 4.19 | 18.0 | 4.70 |
| | 27 | 10.6 | 2.23 | 12.5 | 2.76 | 14.4 | 3.35 | 15.3 | 3.65 | 16.0 | 3.92 | 17.4 | 4.46 | 17.7 | 5.00 |
| | 29 | 10.6 | 2.38 | 12.5 | 2.95 | 14.4 | 3.58 | 15.3 | 3.88 | 16.0 | 4.16 | 17.1 | 4.74 | 17.5 | 5.22 |
| | 31 | 10.6 | 2.53 | 12.5 | 3.14 | 14.4 | 3.81 | 15.2 | 4.12 | 15.9 | 4.42 | 16.9 | 5.03 | 17.2 | 5.22 |
| | 33 | 10.6 | 2.69 | 12.5 | 3.34 | 14.4 | 4.05 | 15.1 | 4.37 | 15.8 | 4.69 | 16.6 | 5.22 | 17.0 | 5.22 |
| | 35 | 10.6 | 2.86 | 12.5 | 3.56 | 14.4 | 4.30 | 15.0 | 4.63 | 15.7 | 4.97 | 16.4 | 5.22 | 16.7 | 5.22 |
| | 37 | 10.6 | 3.03 | 12.5 | 3.78 | 14.3 | 4.55 | 15.0 | 4.91 | 15.6 | 5.22 | 16.1 | 5.22 | 16.4 | 5.22 |
| | 39 | 10.6 | 3.22 | 12.5 | 4.02 | 14.2 | 4.82 | 14.9 | 5.20 | 15.5 | 5.22 | 15.9 | 5.22 | 16.2 | 5.22 |
| 100 (125) | 10 | 9.67 | 1.54 | 11.4 | 1.82 | 13.1 | 2.10 | 14.0 | 2.25 | 14.9 | 2.39 | 16.6 | 2.68 | 18.1 | 2.94 |
| | 12 | 9.67 | 1.56 | 11.4 | 1.85 | 13.1 | 2.14 | 14.0 | 2.28 | 14.9 | 2.43 | 16.6 | 2.73 | 18.0 | 2.98 |
| | 14 | 9.67 | 1.59 | 11.4 | 1.88 | 13.1 | 2.17 | 14.0 | 2.32 | 14.9 | 2.47 | 16.6 | 2.77 | 17.9 | 3.01 |
| | 16 | 9.67 | 1.62 | 11.4 | 1.91 | 13.1 | 2.21 | 14.0 | 2.36 | 14.9 | 2.51 | 16.6 | 2.82 | 17.9 | 3.11 |
| | 18 | 9.67 | 1.64 | 11.4 | 1.94 | 13.1 | 2.25 | 14.0 | 2.40 | 14.9 | 2.56 | 16.6 | 2.97 | 17.8 | 3.34 |
| | 20 | 9.67 | 1.67 | 11.4 | 1.97 | 13.1 | 2.32 | 14.0 | 2.53 | 14.9 | 2.75 | 16.5 | 3.18 | 17.7 | 3.57 |
| | 21 | 9.67 | 1.68 | 11.4 | 2.00 | 13.1 | 2.41 | 14.0 | 2.62 | 14.9 | 2.84 | 16.4 | 3.29 | 17.7 | 3.70 |
| | 23 | 9.67 | 1.75 | 11.4 | 2.14 | 13.1 | 2.58 | 14.0 | 2.81 | 14.9 | 3.05 | 16.4 | 3.51 | 17.6 | 3.95 |
| | 25 | 9.67 | 1.86 | 11.4 | 2.29 | 13.1 | 2.75 | 14.0 | 3.00 | 14.9 | 3.26 | 16.3 | 3.74 | 17.5 | 4.21 |
| | 27 | 9.67 | 1.98 | 11.4 | 2.44 | 13.1 | 2.94 | 14.0 | 3.21 | 14.9 | 3.49 | 16.2 | 3.99 | 17.4 | 4.48 |
| | 29 | 9.67 | 2.11 | 11.4 | 2.60 | 13.1 | 3.14 | 14.0 | 3.42 | 14.9 | 3.72 | 16.1 | 4.24 | 17.1 | 4.76 |
| | 31 | 9.67 | 2.24 | 11.4 | 2.77 | 13.1 | 3.34 | 14.0 | 3.65 | 14.8 | 3.95 | 16.1 | 4.50 | 16.9 | 5.05 |
| | 33 | 9.67 | 2.38 | 11.4 | 2.94 | 13.1 | 3.56 | 14.0 | 3.89 | 14.7 | 4.19 | 16.0 | 4.78 | 16.6 | 5.22 |
| | 35 | 9.67 | 2.53 | 11.4 | 3.13 | 13.1 | 3.79 | 14.0 | 4.14 | 14.7 | 4.44 | 15.9 | 5.06 | 16.4 | 5.22 |
| | 37 | 9.67 | 2.68 | 11.4 | 3.32 | 13.1 | 4.03 | 14.0 | 4.38 | 14.6 | 4.71 | 15.8 | 5.22 | 16.1 | 5.22 |
| | 39 | 9.67 | 2.85 | 11.4 | 3.53 | 13.1 | 4.28 | 13.9 | 4.64 | 14.5 | 4.98 | 15.6 | 5.22 | 15.9 | 5.22 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

Cooling capacity

| Combination (%) (Capacity index) | Outdoor air temp. °CDB | Indoor air temp. °CWB | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0 | | 16.0 | | 18.0 | | 19.0 | | 20.0 | | 22.0 | | 24.0 | |
| | | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW |
| 90 (112.5) | 10 | 8.70 | 1.39 | 10.3 | 1.63 | 11.8 | 1.88 | 12.6 | 2.01 | 13.4 | 2.14 | 14.9 | 2.40 | 16.5 | 2.67 |
| | 12 | 8.70 | 1.41 | 10.3 | 1.66 | 11.8 | 1.92 | 12.6 | 2.05 | 13.4 | 2.18 | 14.9 | 2.44 | 16.5 | 2.71 |
| | 14 | 8.70 | 1.43 | 10.3 | 1.69 | 11.8 | 1.95 | 12.6 | 2.08 | 13.4 | 2.21 | 14.9 | 2.48 | 16.5 | 2.76 |
| | 16 | 8.70 | 1.46 | 10.3 | 1.71 | 11.8 | 1.98 | 12.6 | 2.12 | 13.4 | 2.25 | 14.9 | 2.53 | 16.5 | 2.80 |
| | 18 | 8.70 | 1.48 | 10.3 | 1.74 | 11.8 | 2.01 | 12.6 | 2.15 | 13.4 | 2.29 | 14.9 | 2.57 | 16.5 | 2.94 |
| | 20 | 8.70 | 1.50 | 10.3 | 1.77 | 11.8 | 2.05 | 12.6 | 2.20 | 13.4 | 2.38 | 14.9 | 2.76 | 16.4 | 3.15 |
| | 21 | 8.70 | 1.52 | 10.3 | 1.79 | 11.8 | 2.10 | 12.6 | 2.28 | 13.4 | 2.47 | 14.9 | 2.86 | 16.4 | 3.26 |
| | 23 | 8.70 | 1.54 | 10.3 | 1.88 | 11.8 | 2.24 | 12.6 | 2.44 | 13.4 | 2.64 | 14.9 | 3.07 | 16.3 | 3.49 |
| | 25 | 8.70 | 1.64 | 10.3 | 2.00 | 11.8 | 2.40 | 12.6 | 2.61 | 13.4 | 2.82 | 14.9 | 3.28 | 16.2 | 3.72 |
| | 27 | 8.70 | 1.75 | 10.3 | 2.13 | 11.8 | 2.56 | 12.6 | 2.78 | 13.4 | 3.02 | 14.9 | 3.51 | 16.1 | 3.96 |
| | 29 | 8.70 | 1.86 | 10.3 | 2.27 | 11.8 | 2.73 | 12.6 | 2.97 | 13.4 | 3.22 | 14.9 | 3.74 | 16.1 | 4.21 |
| | 31 | 8.70 | 1.98 | 10.3 | 2.42 | 11.8 | 2.90 | 12.6 | 3.16 | 13.4 | 3.43 | 14.9 | 3.97 | 16.0 | 4.47 |
| | 33 | 8.70 | 2.10 | 10.3 | 2.57 | 11.8 | 3.09 | 12.6 | 3.36 | 13.4 | 3.65 | 14.8 | 4.22 | 15.9 | 4.74 |
| | 35 | 8.70 | 2.22 | 10.3 | 2.73 | 11.8 | 3.28 | 12.6 | 3.58 | 13.4 | 3.89 | 14.7 | 4.47 | 15.8 | 5.02 |
| | 37 | 8.70 | 2.36 | 10.3 | 2.90 | 11.8 | 3.49 | 12.6 | 3.80 | 13.4 | 4.13 | 14.6 | 4.74 | 15.7 | 5.22 |
| | 39 | 8.70 | 2.50 | 10.3 | 3.07 | 11.8 | 3.70 | 12.6 | 4.04 | 13.4 | 4.39 | 14.6 | 5.01 | 15.6 | 5.22 |
| 80 (100) | 10 | 7.74 | 1.25 | 9.12 | 1.46 | 10.5 | 1.67 | 11.2 | 1.78 | 11.9 | 1.90 | 13.3 | 2.13 | 14.7 | 2.36 |
| | 12 | 7.74 | 1.26 | 9.12 | 1.48 | 10.5 | 1.70 | 11.2 | 1.81 | 11.9 | 1.93 | 13.3 | 2.16 | 14.7 | 2.40 |
| | 14 | 7.74 | 1.28 | 9.12 | 1.50 | 10.5 | 1.73 | 11.2 | 1.84 | 11.9 | 1.96 | 13.3 | 2.20 | 14.7 | 2.44 |
| | 16 | 7.74 | 1.30 | 9.12 | 1.52 | 10.5 | 1.76 | 11.2 | 1.87 | 11.9 | 1.99 | 13.3 | 2.23 | 14.7 | 2.48 |
| | 18 | 7.74 | 1.32 | 9.12 | 1.55 | 10.5 | 1.78 | 11.2 | 1.90 | 11.9 | 2.03 | 13.3 | 2.27 | 14.7 | 2.52 |
| | 20 | 7.74 | 1.34 | 9.12 | 1.58 | 10.5 | 1.82 | 11.2 | 1.94 | 11.9 | 2.06 | 13.3 | 2.36 | 14.7 | 2.70 |
| | 21 | 7.74 | 1.35 | 9.12 | 1.59 | 10.5 | 1.83 | 11.2 | 1.96 | 11.9 | 2.11 | 13.3 | 2.44 | 14.7 | 2.79 |
| | 23 | 7.74 | 1.38 | 9.12 | 1.63 | 10.5 | 1.93 | 11.2 | 2.09 | 11.9 | 2.26 | 13.3 | 2.61 | 14.7 | 2.99 |
| | 25 | 7.74 | 1.44 | 9.12 | 1.74 | 10.5 | 2.06 | 11.2 | 2.24 | 11.9 | 2.42 | 13.3 | 2.79 | 14.7 | 3.20 |
| | 27 | 7.74 | 1.53 | 9.12 | 1.85 | 10.5 | 2.20 | 11.2 | 2.38 | 11.9 | 2.58 | 13.3 | 2.98 | 14.7 | 3.42 |
| | 29 | 7.74 | 1.62 | 9.12 | 1.97 | 10.5 | 2.34 | 11.2 | 2.54 | 11.9 | 2.75 | 13.3 | 3.18 | 14.7 | 3.65 |
| | 31 | 7.74 | 1.72 | 9.12 | 2.09 | 10.5 | 2.49 | 11.2 | 2.70 | 11.9 | 2.93 | 13.3 | 3.39 | 14.7 | 3.89 |
| | 33 | 7.74 | 1.83 | 9.12 | 2.22 | 10.5 | 2.65 | 11.2 | 2.88 | 11.9 | 3.11 | 13.3 | 3.61 | 14.6 | 4.12 |
| | 35 | 7.74 | 1.93 | 9.12 | 2.35 | 10.5 | 2.81 | 11.2 | 3.06 | 11.9 | 3.31 | 13.3 | 3.85 | 14.5 | 4.37 |
| | 37 | 7.74 | 2.05 | 9.12 | 2.50 | 10.5 | 2.98 | 11.2 | 3.25 | 11.9 | 3.52 | 13.3 | 4.09 | 14.4 | 4.63 |
| | 39 | 7.74 | 2.17 | 9.12 | 2.64 | 10.5 | 3.17 | 11.2 | 3.44 | 11.9 | 3.73 | 13.3 | 4.35 | 14.4 | 4.90 |
| 70 (87.5) | 10 | 6.77 | 1.11 | 7.98 | 1.28 | 9.19 | 1.47 | 9.80 | 1.56 | 10.4 | 1.66 | 11.6 | 1.85 | 12.8 | 2.05 |
| | 12 | 6.77 | 1.12 | 7.98 | 1.30 | 9.19 | 1.49 | 9.80 | 1.59 | 10.4 | 1.68 | 11.6 | 1.88 | 12.8 | 2.08 |
| | 14 | 6.77 | 1.14 | 7.98 | 1.32 | 9.19 | 1.51 | 9.80 | 1.61 | 10.4 | 1.71 | 11.6 | 1.91 | 12.8 | 2.12 |
| | 16 | 6.77 | 1.15 | 7.98 | 1.34 | 9.19 | 1.54 | 9.80 | 1.64 | 10.4 | 1.74 | 11.6 | 1.94 | 12.8 | 2.16 |
| | 18 | 6.77 | 1.17 | 7.98 | 1.36 | 9.19 | 1.56 | 9.80 | 1.66 | 10.4 | 1.77 | 11.6 | 1.98 | 12.8 | 2.19 |
| | 20 | 6.77 | 1.19 | 7.98 | 1.38 | 9.19 | 1.59 | 9.80 | 1.69 | 10.4 | 1.80 | 11.6 | 2.01 | 12.8 | 2.25 |
| | 21 | 6.77 | 1.20 | 7.98 | 1.40 | 9.19 | 1.60 | 9.80 | 1.71 | 10.4 | 1.81 | 11.6 | 2.05 | 12.8 | 2.33 |
| | 23 | 6.77 | 1.22 | 7.98 | 1.42 | 9.19 | 1.64 | 9.80 | 1.77 | 10.4 | 1.91 | 11.6 | 2.19 | 12.8 | 2.50 |
| | 25 | 6.77 | 1.24 | 7.98 | 1.49 | 9.19 | 1.75 | 9.80 | 1.89 | 10.4 | 2.04 | 11.6 | 2.34 | 12.8 | 2.67 |
| | 27 | 6.77 | 1.32 | 7.98 | 1.58 | 9.19 | 1.87 | 9.80 | 2.02 | 10.4 | 2.17 | 11.6 | 2.50 | 12.8 | 2.85 |
| | 29 | 6.77 | 1.40 | 7.98 | 1.68 | 9.19 | 1.99 | 9.80 | 2.15 | 10.4 | 2.31 | 11.6 | 2.66 | 12.8 | 3.04 |
| | 31 | 6.77 | 1.49 | 7.98 | 1.79 | 9.19 | 2.11 | 9.80 | 2.28 | 10.4 | 2.46 | 11.6 | 2.84 | 12.8 | 3.24 |
| | 33 | 6.77 | 1.57 | 7.98 | 1.89 | 9.19 | 2.24 | 9.80 | 2.42 | 10.4 | 2.61 | 11.6 | 3.02 | 12.8 | 3.45 |
| | 35 | 6.77 | 1.67 | 7.98 | 2.01 | 9.19 | 2.38 | 9.80 | 2.57 | 10.4 | 2.78 | 11.6 | 3.21 | 12.8 | 3.67 |
| | 37 | 6.77 | 1.76 | 7.98 | 2.12 | 9.19 | 2.52 | 9.80 | 2.73 | 10.4 | 2.95 | 11.6 | 3.41 | 12.8 | 3.90 |
| | 39 | 6.77 | 1.86 | 7.98 | 2.25 | 9.19 | 2.67 | 9.80 | 2.89 | 10.4 | 3.13 | 11.6 | 3.62 | 12.8 | 4.14 |
| 60 (75) | 10 | 5.80 | 0.97 | 6.84 | 1.12 | 7.88 | 1.27 | 8.40 | 1.35 | 8.92 | 1.42 | 9.96 | 1.59 | 11.0 | 1.75 |
| | 12 | 5.80 | 0.98 | 6.84 | 1.13 | 7.88 | 1.29 | 8.40 | 1.37 | 8.92 | 1.45 | 9.96 | 1.61 | 11.0 | 1.78 |
| | 14 | 5.80 | 1.00 | 6.84 | 1.15 | 7.88 | 1.31 | 8.40 | 1.39 | 8.92 | 1.47 | 9.96 | 1.64 | 11.0 | 1.81 |
| | 16 | 5.80 | 1.01 | 6.84 | 1.16 | 7.88 | 1.33 | 8.40 | 1.41 | 8.92 | 1.49 | 9.96 | 1.66 | 11.0 | 1.84 |
| | 18 | 5.80 | 1.02 | 6.84 | 1.18 | 7.88 | 1.35 | 8.40 | 1.43 | 8.92 | 1.52 | 9.96 | 1.69 | 11.0 | 1.87 |
| | 20 | 5.80 | 1.04 | 6.84 | 1.20 | 7.88 | 1.37 | 8.40 | 1.45 | 8.92 | 1.54 | 9.96 | 1.72 | 11.0 | 1.90 |
| | 21 | 5.80 | 1.05 | 6.84 | 1.21 | 7.88 | 1.38 | 8.40 | 1.47 | 8.92 | 1.55 | 9.96 | 1.73 | 11.0 | 1.92 |
| | 23 | 5.80 | 1.06 | 6.84 | 1.23 | 7.88 | 1.40 | 8.40 | 1.49 | 8.92 | 1.59 | 9.96 | 1.81 | 11.0 | 2.05 |
| | 25 | 5.80 | 1.08 | 6.84 | 1.26 | 7.88 | 1.47 | 8.40 | 1.58 | 8.92 | 1.69 | 9.96 | 1.93 | 11.0 | 2.18 |
| | 27 | 5.80 | 1.13 | 6.84 | 1.34 | 7.88 | 1.56 | 8.40 | 1.68 | 8.92 | 1.80 | 9.96 | 2.06 | 11.0 | 2.33 |
| | 29 | 5.80 | 1.20 | 6.84 | 1.42 | 7.88 | 1.66 | 8.40 | 1.78 | 8.92 | 1.91 | 9.96 | 2.19 | 11.0 | 2.48 |
| | 31 | 5.80 | 1.27 | 6.84 | 1.50 | 7.88 | 1.76 | 8.40 | 1.89 | 8.92 | 2.03 | 9.96 | 2.33 | 11.0 | 2.64 |
| | 33 | 5.80 | 1.34 | 6.84 | 1.59 | 7.88 | 1.87 | 8.40 | 2.01 | 8.92 | 2.16 | 9.96 | 2.47 | 11.0 | 2.81 |
| | 35 | 5.80 | 1.42 | 6.84 | 1.68 | 7.88 | 1.98 | 8.40 | 2.13 | 8.92 | 2.29 | 9.96 | 2.63 | 11.0 | 2.98 |
| | 37 | 5.80 | 1.49 | 6.84 | 1.78 | 7.88 | 2.09 | 8.40 | 2.26 | 8.92 | 2.43 | 9.96 | 2.79 | 11.0 | 3.17 |
| | 39 | 5.80 | 1.58 | 6.84 | 1.88 | 7.88 | 2.22 | 8.40 | 2.39 | 8.92 | 2.57 | 9.96 | 2.95 | 11.0 | 3.36 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

13

**Cooling capacity**

| Combination (%) (Capacity index) | Outdoor air temp. °CDB | Indoor air temp. °CWB | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0 | | 16.0 | | 18.0 | | 19.0 | | 20.0 | | 22.0 | | 24.0 | |
| | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 50 (62.5) | 10 | 4.84 | 0.84 | 5.70 | 0.96 | 6.57 | 1.08 | 7.00 | 1.14 | 7.43 | 1.20 | 8.30 | 1.33 | 9.16 | 1.46 |
| | 12 | 4.84 | 0.85 | 5.70 | 0.97 | 6.57 | 1.09 | 7.00 | 1.15 | 7.43 | 1.22 | 8.30 | 1.35 | 9.16 | 1.48 |
| | 14 | 4.84 | 0.86 | 5.70 | 0.98 | 6.57 | 1.11 | 7.00 | 1.17 | 7.43 | 1.24 | 8.30 | 1.37 | 9.16 | 1.51 |
| | 16 | 4.84 | 0.87 | 5.70 | 0.99 | 6.57 | 1.12 | 7.00 | 1.19 | 7.43 | 1.26 | 8.30 | 1.39 | 9.16 | 1.53 |
| | 18 | 4.84 | 0.88 | 5.70 | 1.01 | 6.57 | 1.14 | 7.00 | 1.21 | 7.43 | 1.27 | 8.30 | 1.41 | 9.16 | 1.56 |
| | 20 | 4.84 | 0.89 | 5.70 | 1.02 | 6.57 | 1.16 | 7.00 | 1.22 | 7.43 | 1.29 | 8.30 | 1.44 | 9.16 | 1.58 |
| | 21 | 4.84 | 0.90 | 5.70 | 1.03 | 6.57 | 1.16 | 7.00 | 1.23 | 7.43 | 1.30 | 8.30 | 1.45 | 9.16 | 1.60 |
| | 23 | 4.84 | 0.91 | 5.70 | 1.04 | 6.57 | 1.18 | 7.00 | 1.25 | 7.43 | 1.33 | 8.30 | 1.47 | 9.16 | 1.64 |
| | 25 | 4.84 | 0.92 | 5.70 | 1.06 | 6.57 | 1.21 | 7.00 | 1.29 | 7.43 | 1.38 | 8.30 | 1.56 | 9.16 | 1.75 |
| | 27 | 4.84 | 0.95 | 5.70 | 1.11 | 6.57 | 1.28 | 7.00 | 1.37 | 7.43 | 1.46 | 8.30 | 1.65 | 9.16 | 1.86 |
| | 29 | 4.84 | 1.01 | 5.70 | 1.18 | 6.57 | 1.36 | 7.00 | 1.45 | 7.43 | 1.55 | 8.30 | 1.76 | 9.16 | 1.98 |
| | 31 | 4.84 | 1.06 | 5.70 | 1.24 | 6.57 | 1.44 | 7.00 | 1.54 | 7.43 | 1.65 | 8.30 | 1.87 | 9.16 | 2.10 |
| | 33 | 4.84 | 1.12 | 5.70 | 1.32 | 6.57 | 1.52 | 7.00 | 1.63 | 7.43 | 1.75 | 8.30 | 1.98 | 9.16 | 2.23 |
| | 35 | 4.84 | 1.18 | 5.70 | 1.39 | 6.57 | 1.61 | 7.00 | 1.73 | 7.43 | 1.85 | 8.30 | 2.10 | 9.16 | 2.37 |
| | 37 | 4.84 | 1.25 | 5.70 | 1.47 | 6.57 | 1.70 | 7.00 | 1.83 | 7.43 | 1.96 | 8.30 | 2.22 | 9.16 | 2.51 |
| | 39 | 4.84 | 1.32 | 5.70 | 1.55 | 6.57 | 1.80 | 7.00 | 1.93 | 7.43 | 2.07 | 8.30 | 2.36 | 9.16 | 2.66 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

## RXM6MVM, RXYM6MVM (T)

**Cooling capacity**

| Combination (%) (Capacity index) | Outdoor air temp. °CDB | Indoor air temp. °CWB | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0 | | 16.0 | | 18.0 | | 19.0 | | 20.0 | | 22.0 | | 24.0 | |
| | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 130 (182) | 10 | 13.9 | 2.50 | 16.4 | 2.97 | 18.9 | 3.44 | 19.9 | 3.64 | 20.1 | 3.81 | 20.5 | 4.12 | 20.9 | 4.38 |
| | 12 | 13.9 | 2.54 | 16.4 | 3.01 | 18.9 | 3.50 | 19.6 | 3.68 | 19.8 | 3.86 | 20.3 | 4.16 | 20.7 | 4.52 |
| | 14 | 13.9 | 2.58 | 16.4 | 3.07 | 18.9 | 3.54 | 19.4 | 3.73 | 19.6 | 3.90 | 20.0 | 4.35 | 20.4 | 4.87 |
| | 16 | 13.9 | 2.62 | 16.4 | 3.12 | 18.8 | 3.59 | 19.1 | 3.84 | 19.3 | 4.12 | 19.7 | 4.68 | 20.2 | 5.24 |
| | 18 | 13.9 | 2.67 | 16.4 | 3.17 | 18.6 | 3.82 | 18.8 | 4.12 | 19.1 | 4.42 | 19.5 | 5.02 | 19.9 | 5.42 |
| | 20 | 13.9 | 2.73 | 16.4 | 3.40 | 18.4 | 4.09 | 18.6 | 4.41 | 18.8 | 4.73 | 19.2 | 5.37 | 19.7 | 5.42 |
| | 21 | 13.9 | 2.82 | 16.4 | 3.53 | 18.2 | 4.23 | 18.5 | 4.56 | 18.7 | 4.89 | 19.1 | 5.42 | 19.5 | 5.42 |
| | 23 | 13.9 | 3.02 | 16.4 | 3.78 | 18.0 | 4.52 | 18.2 | 4.87 | 18.4 | 5.22 | 18.9 | 5.42 | 19.3 | 5.42 |
| | 25 | 13.9 | 3.23 | 16.4 | 4.04 | 17.7 | 4.82 | 18.0 | 5.19 | 18.2 | 5.42 | 18.6 | 5.42 | 19.0 | 5.42 |
| | 27 | 13.9 | 3.45 | 16.4 | 4.32 | 17.5 | 5.13 | 17.7 | 5.42 | 17.9 | 5.42 | 18.3 | 5.42 | 18.8 | 5.42 |
| | 29 | 13.9 | 3.68 | 16.4 | 4.61 | 17.2 | 5.42 | 17.4 | 5.42 | 17.7 | 5.42 | 18.1 | 5.42 | 18.5 | 5.42 |
| | 31 | 13.9 | 3.92 | 16.4 | 4.90 | 17.0 | 5.42 | 17.2 | 5.42 | 17.4 | 5.42 | 17.8 | 5.42 | 18.3 | 5.42 |
| | 33 | 13.9 | 4.17 | 16.3 | 5.20 | 16.7 | 5.42 | 16.9 | 5.42 | 17.2 | 5.42 | 17.6 | 5.42 | 18.0 | 5.42 |
| | 35 | 13.9 | 4.44 | 16.0 | 5.42 | 16.5 | 5.42 | 16.7 | 5.42 | 16.9 | 5.42 | 17.3 | 5.42 | 17.8 | 5.42 |
| | 37 | 13.9 | 4.72 | 15.8 | 5.42 | 16.2 | 5.42 | 16.4 | 5.42 | 16.6 | 5.42 | 17.1 | 5.42 | 17.5 | 5.42 |
| | 39 | 13.9 | 5.01 | 15.5 | 5.42 | 16.0 | 5.42 | 16.2 | 5.42 | 16.4 | 5.42 | 16.8 | 5.42 | 17.3 | 5.42 |
| 120 (168) | 10 | 12.8 | 2.30 | 15.1 | 2.73 | 17.4 | 3.16 | 18.6 | 3.38 | 19.7 | 3.58 | 20.2 | 3.90 | 20.6 | 4.17 |
| | 12 | 12.8 | 2.34 | 15.1 | 2.77 | 17.4 | 3.22 | 18.6 | 3.44 | 19.5 | 3.62 | 19.9 | 3.94 | 20.3 | 4.21 |
| | 14 | 12.8 | 2.38 | 15.1 | 2.82 | 17.4 | 3.27 | 18.6 | 3.49 | 19.3 | 3.67 | 19.7 | 3.99 | 20.1 | 4.45 |
| | 16 | 12.8 | 2.42 | 15.1 | 2.87 | 17.4 | 3.33 | 18.6 | 3.54 | 19.0 | 3.75 | 19.4 | 4.26 | 19.8 | 4.78 |
| | 18 | 12.8 | 2.46 | 15.1 | 2.92 | 17.4 | 3.45 | 18.5 | 3.74 | 18.8 | 4.02 | 19.2 | 4.57 | 19.6 | 5.13 |
| | 20 | 12.8 | 2.50 | 15.1 | 3.05 | 17.4 | 3.71 | 18.3 | 4.01 | 18.5 | 4.31 | 18.9 | 4.90 | 19.3 | 5.42 |
| | 21 | 12.8 | 2.55 | 15.1 | 3.16 | 17.4 | 3.84 | 18.2 | 4.15 | 18.4 | 4.45 | 18.8 | 5.06 | 19.2 | 5.42 |
| | 23 | 12.8 | 2.72 | 15.1 | 3.39 | 17.4 | 4.11 | 17.9 | 4.43 | 18.1 | 4.76 | 18.5 | 5.41 | 18.9 | 5.42 |
| | 25 | 12.8 | 2.91 | 15.1 | 3.62 | 17.4 | 4.38 | 17.7 | 4.72 | 17.9 | 5.07 | 18.3 | 5.42 | 18.7 | 5.42 |
| | 27 | 12.8 | 3.11 | 15.1 | 3.87 | 17.2 | 4.66 | 17.4 | 5.03 | 17.6 | 5.40 | 18.0 | 5.42 | 18.4 | 5.42 |
| | 29 | 12.8 | 3.31 | 15.1 | 4.13 | 17.0 | 4.96 | 17.2 | 5.35 | 17.4 | 5.42 | 17.8 | 5.42 | 18.2 | 5.42 |
| | 31 | 12.8 | 3.52 | 15.1 | 4.40 | 16.7 | 5.27 | 16.9 | 5.42 | 17.1 | 5.42 | 17.5 | 5.42 | 17.9 | 5.42 |
| | 33 | 12.8 | 3.75 | 15.1 | 4.69 | 16.5 | 5.42 | 16.7 | 5.42 | 16.9 | 5.42 | 17.3 | 5.42 | 17.7 | 5.42 |
| | 35 | 12.8 | 3.98 | 15.1 | 4.99 | 16.2 | 5.42 | 16.4 | 5.42 | 16.6 | 5.42 | 17.0 | 5.42 | 17.4 | 5.42 |
| | 37 | 12.8 | 4.23 | 15.1 | 5.31 | 16.0 | 5.42 | 16.2 | 5.42 | 16.4 | 5.42 | 16.8 | 5.42 | 17.2 | 5.42 |
| | 39 | 12.8 | 4.49 | 15.1 | 5.42 | 15.7 | 5.42 | 15.9 | 5.42 | 16.1 | 5.42 | 16.5 | 5.42 | 16.9 | 5.42 |
| 110 (154) | 10 | 11.8 | 2.11 | 13.9 | 2.49 | 16.0 | 2.89 | 17.1 | 3.09 | 18.1 | 3.29 | 19.9 | 3.64 | 20.2 | 3.93 |
| | 12 | 11.8 | 2.14 | 13.9 | 2.53 | 16.0 | 2.93 | 17.1 | 3.14 | 18.1 | 3.34 | 19.6 | 3.69 | 20.0 | 3.98 |
| | 14 | 11.8 | 2.18 | 13.9 | 2.58 | 16.0 | 2.98 | 17.1 | 3.19 | 18.1 | 3.40 | 19.4 | 3.74 | 19.7 | 4.02 |
| | 16 | 11.8 | 2.21 | 13.9 | 2.62 | 16.0 | 3.04 | 17.1 | 3.25 | 18.1 | 3.46 | 19.1 | 3.85 | 19.5 | 4.32 |
| | 18 | 11.8 | 2.25 | 13.9 | 2.66 | 16.0 | 3.09 | 17.1 | 3.34 | 18.1 | 3.62 | 18.9 | 4.13 | 19.2 | 4.64 |
| | 20 | 11.8 | 2.29 | 13.9 | 2.72 | 16.0 | 3.29 | 17.1 | 3.59 | 18.0 | 3.88 | 18.6 | 4.43 | 19.0 | 4.97 |
| | 21 | 11.8 | 2.31 | 13.9 | 2.82 | 16.0 | 3.40 | 17.1 | 3.72 | 18.0 | 4.02 | 18.5 | 4.58 | 18.8 | 5.14 |
| | 23 | 11.8 | 2.44 | 13.9 | 3.01 | 16.0 | 3.65 | 17.1 | 3.98 | 17.9 | 4.29 | 18.2 | 4.89 | 18.6 | 5.42 |
| | 25 | 11.8 | 2.61 | 13.9 | 3.22 | 16.0 | 3.90 | 17.1 | 4.26 | 17.6 | 4.58 | 18.0 | 5.21 | 18.3 | 5.42 |
| | 27 | 11.8 | 2.78 | 13.9 | 3.44 | 16.0 | 4.17 | 17.0 | 4.54 | 17.3 | 4.87 | 17.7 | 5.42 | 18.1 | 5.42 |
| | 29 | 11.8 | 2.96 | 13.9 | 3.67 | 16.0 | 4.45 | 16.9 | 4.82 | 17.1 | 5.18 | 17.5 | 5.42 | 17.8 | 5.42 |
| | 31 | 11.8 | 3.15 | 13.9 | 3.91 | 16.0 | 4.75 | 16.7 | 5.12 | 16.8 | 5.42 | 17.2 | 5.42 | 17.6 | 5.42 |
| | 33 | 11.8 | 3.35 | 13.9 | 4.16 | 16.0 | 5.04 | 16.4 | 5.42 | 16.6 | 5.42 | 16.9 | 5.42 | 17.3 | 5.42 |
| | 35 | 11.8 | 3.55 | 13.9 | 4.42 | 15.9 | 5.34 | 16.1 | 5.42 | 16.3 | 5.42 | 16.7 | 5.42 | 17.1 | 5.42 |
| | 37 | 11.8 | 3.77 | 13.9 | 4.70 | 15.7 | 5.42 | 15.9 | 5.42 | 16.1 | 5.42 | 16.4 | 5.42 | 16.8 | 5.42 |
| | 39 | 11.8 | 4.00 | 13.9 | 5.00 | 15.5 | 5.42 | 15.6 | 5.42 | 15.8 | 5.42 | 16.2 | 5.42 | 16.5 | 5.42 |
| 100 (140) | 10 | 10.71 | 1.92 | 12.6 | 2.26 | 14.5 | 2.61 | 15.5 | 2.79 | 16.5 | 2.97 | 18.4 | 3.34 | 19.9 | 3.66 |
| | 12 | 10.71 | 1.95 | 12.6 | 2.30 | 14.5 | 2.66 | 15.5 | 2.84 | 16.5 | 3.02 | 18.4 | 3.39 | 19.6 | 3.70 |
| | 14 | 10.71 | 1.98 | 12.6 | 2.33 | 14.5 | 2.70 | 15.5 | 2.89 | 16.5 | 3.07 | 18.4 | 3.45 | 19.4 | 3.75 |
| | 16 | 10.71 | 2.01 | 12.6 | 2.37 | 14.5 | 2.75 | 15.5 | 2.94 | 16.5 | 3.13 | 18.4 | 3.51 | 19.1 | 3.87 |
| | 18 | 10.71 | 2.04 | 12.6 | 2.41 | 14.5 | 2.79 | 15.5 | 2.99 | 16.5 | 3.18 | 18.3 | 3.69 | 18.9 | 4.15 |
| | 20 | 10.71 | 2.08 | 12.6 | 2.46 | 14.5 | 2.89 | 15.5 | 3.15 | 16.5 | 3.42 | 18.2 | 3.95 | 18.6 | 4.45 |
| | 21 | 10.71 | 2.09 | 12.6 | 2.49 | 14.5 | 2.99 | 15.5 | 3.26 | 16.5 | 3.54 | 18.2 | 4.09 | 18.5 | 4.60 |
| | 23 | 10.71 | 2.17 | 12.6 | 2.66 | 14.5 | 3.20 | 15.5 | 3.49 | 16.5 | 3.79 | 17.9 | 4.37 | 18.2 | 4.91 |
| | 25 | 10.71 | 2.32 | 12.6 | 2.85 | 14.5 | 3.43 | 15.5 | 3.74 | 16.5 | 4.06 | 17.6 | 4.66 | 18.0 | 5.23 |
| | 27 | 10.71 | 2.47 | 12.6 | 3.04 | 14.5 | 3.66 | 15.5 | 3.99 | 16.5 | 4.34 | 17.4 | 4.96 | 17.7 | 5.42 |
| | 29 | 10.71 | 2.63 | 12.6 | 3.23 | 14.5 | 3.90 | 15.5 | 4.26 | 16.5 | 4.62 | 17.1 | 5.27 | 17.5 | 5.42 |
| | 31 | 10.71 | 2.79 | 12.6 | 3.44 | 14.5 | 4.16 | 15.5 | 4.54 | 16.4 | 4.91 | 16.9 | 5.42 | 17.2 | 5.42 |
| | 33 | 10.71 | 2.97 | 12.6 | 3.66 | 14.5 | 4.43 | 15.5 | 4.84 | 16.3 | 5.21 | 16.6 | 5.42 | 17.0 | 5.42 |
| | 35 | 10.71 | 3.15 | 12.6 | 3.89 | 14.5 | 4.71 | 15.5 | 5.15 | 16.0 | 5.42 | 16.4 | 5.42 | 16.7 | 5.42 |
| | 37 | 10.71 | 3.34 | 12.6 | 4.13 | 14.5 | 5.01 | 15.5 | 5.42 | 15.8 | 5.42 | 16.1 | 5.42 | 16.5 | 5.42 |
| | 39 | 10.71 | 3.54 | 12.6 | 4.39 | 14.5 | 5.33 | 15.4 | 5.42 | 15.5 | 5.42 | 15.9 | 5.42 | 16.2 | 5.42 |

TC Total capacity ; kW
PI Power Input ; kW (Comp.+Outdoor fan motor)

13

**Cooling capacity**

| Combination (%) (Capacity index) | Outdoor air temp. °CDB | Indoor air temp. °CWB | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0 | | 16.0 | | 18.0 | | 19.0 | | 20.0 | | 22.0 | | 24.0 | |
| | | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW | TC KW | PI KW |
| 90 (126) | 10 | 9.64 | 1.73 | 11.4 | 2.03 | 13.1 | 2.34 | 14.0 | 2.50 | 14.8 | 2.66 | 16.5 | 2.99 | 18.3 | 3.32 |
| | 12 | 9.64 | 1.76 | 11.4 | 2.06 | 13.1 | 2.38 | 14.0 | 2.54 | 14.8 | 2.71 | 16.5 | 3.04 | 18.3 | 3.37 |
| | 14 | 9.64 | 1.78 | 11.4 | 2.10 | 13.1 | 2.42 | 14.0 | 2.59 | 14.8 | 2.75 | 16.5 | 3.09 | 18.3 | 3.43 |
| | 16 | 9.64 | 1.81 | 11.4 | 2.13 | 13.1 | 2.46 | 14.0 | 2.63 | 14.8 | 2.80 | 16.5 | 3.14 | 18.3 | 3.49 |
| | 18 | 9.64 | 1.84 | 11.4 | 2.17 | 13.1 | 2.50 | 14.0 | 2.68 | 14.8 | 2.85 | 16.5 | 3.20 | 18.2 | 3.66 |
| | 20 | 9.64 | 1.87 | 11.4 | 2.20 | 13.1 | 2.55 | 14.0 | 2.74 | 14.8 | 2.96 | 16.5 | 3.44 | 18.2 | 3.92 |
| | 21 | 9.64 | 1.89 | 11.4 | 2.22 | 13.1 | 2.61 | 14.0 | 2.83 | 14.8 | 3.07 | 16.5 | 3.56 | 18.1 | 4.06 |
| | 23 | 9.64 | 1.92 | 11.4 | 2.33 | 13.1 | 2.79 | 14.0 | 3.03 | 14.8 | 3.28 | 16.5 | 3.82 | 17.9 | 4.34 |
| | 25 | 9.64 | 2.04 | 11.4 | 2.49 | 13.1 | 2.98 | 14.0 | 3.24 | 14.8 | 3.51 | 16.5 | 4.09 | 17.6 | 4.62 |
| | 27 | 9.64 | 2.18 | 11.4 | 2.66 | 13.1 | 3.18 | 14.0 | 3.46 | 14.8 | 3.75 | 16.5 | 4.37 | 17.4 | 4.92 |
| | 29 | 9.64 | 2.31 | 11.4 | 2.83 | 13.1 | 3.39 | 14.0 | 3.69 | 14.8 | 4.00 | 16.5 | 4.65 | 17.1 | 5.23 |
| | 31 | 9.64 | 2.46 | 11.4 | 3.01 | 13.1 | 3.61 | 14.0 | 3.93 | 14.8 | 4.27 | 16.5 | 4.94 | 16.9 | 5.42 |
| | 33 | 9.64 | 2.61 | 11.4 | 3.20 | 13.1 | 3.84 | 14.0 | 4.18 | 14.8 | 4.54 | 16.3 | 5.24 | 16.6 | 5.42 |
| | 35 | 9.64 | 2.77 | 11.4 | 3.39 | 13.1 | 4.08 | 14.0 | 4.45 | 14.8 | 4.83 | 16.1 | 5.42 | 16.4 | 5.42 |
| | 37 | 9.64 | 2.93 | 11.4 | 3.60 | 13.1 | 4.34 | 14.0 | 4.73 | 14.8 | 5.14 | 15.8 | 5.42 | 16.1 | 5.42 |
| | 39 | 9.64 | 3.10 | 11.4 | 3.82 | 13.1 | 4.61 | 14.0 | 5.03 | 14.8 | 5.42 | 15.5 | 5.42 | 15.8 | 5.42 |
| 80 (112) | 10 | 8.57 | 1.55 | 10.10 | 1.81 | 11.6 | 2.08 | 12.4 | 2.22 | 13.2 | 2.36 | 14.7 | 2.64 | 16.2 | 2.93 |
| | 12 | 8.57 | 1.57 | 10.10 | 1.84 | 11.6 | 2.11 | 12.4 | 2.25 | 13.2 | 2.40 | 14.7 | 2.69 | 16.2 | 2.98 |
| | 14 | 8.57 | 1.60 | 10.10 | 1.87 | 11.6 | 2.15 | 12.4 | 2.29 | 13.2 | 2.44 | 14.7 | 2.73 | 16.2 | 3.03 |
| | 16 | 8.57 | 1.62 | 10.10 | 1.90 | 11.6 | 2.18 | 12.4 | 2.33 | 13.2 | 2.48 | 14.7 | 2.78 | 16.2 | 3.08 |
| | 18 | 8.57 | 1.65 | 10.10 | 1.93 | 11.6 | 2.22 | 12.4 | 2.37 | 13.2 | 2.52 | 14.7 | 2.83 | 16.2 | 3.14 |
| | 20 | 8.57 | 1.67 | 10.10 | 1.96 | 11.6 | 2.26 | 12.4 | 2.41 | 13.2 | 2.56 | 14.7 | 2.93 | 16.2 | 3.35 |
| | 21 | 8.57 | 1.68 | 10.10 | 1.98 | 11.6 | 2.28 | 12.4 | 2.43 | 13.2 | 2.63 | 14.7 | 3.04 | 16.2 | 3.47 |
| | 23 | 8.57 | 1.71 | 10.10 | 2.03 | 11.6 | 2.40 | 12.4 | 2.60 | 13.2 | 2.81 | 14.7 | 3.25 | 16.2 | 3.72 |
| | 25 | 8.57 | 1.79 | 10.10 | 2.16 | 11.6 | 2.57 | 12.4 | 2.78 | 13.2 | 3.00 | 14.7 | 3.48 | 16.2 | 3.98 |
| | 27 | 8.57 | 1.90 | 10.10 | 2.30 | 11.6 | 2.73 | 12.4 | 2.97 | 13.2 | 3.21 | 14.7 | 3.71 | 16.2 | 4.26 |
| | 29 | 8.57 | 2.02 | 10.10 | 2.45 | 11.6 | 2.91 | 12.4 | 3.16 | 13.2 | 3.42 | 14.7 | 3.96 | 16.2 | 4.54 |
| | 31 | 8.57 | 2.14 | 10.10 | 2.60 | 11.6 | 3.10 | 12.4 | 3.36 | 13.2 | 3.64 | 14.7 | 4.22 | 16.2 | 4.83 |
| | 33 | 8.57 | 2.27 | 10.10 | 2.76 | 11.6 | 3.29 | 12.4 | 3.58 | 13.2 | 3.87 | 14.7 | 4.49 | 16.1 | 5.13 |
| | 35 | 8.57 | 2.41 | 10.10 | 2.93 | 11.6 | 3.50 | 12.4 | 3.80 | 13.2 | 4.12 | 14.7 | 4.78 | 16.0 | 5.42 |
| | 37 | 8.57 | 2.55 | 10.10 | 3.10 | 11.6 | 3.71 | 12.4 | 4.04 | 13.2 | 4.37 | 14.7 | 5.09 | 15.7 | 5.42 |
| | 39 | 8.57 | 2.70 | 10.10 | 3.29 | 11.6 | 3.94 | 12.4 | 4.29 | 13.2 | 4.65 | 14.7 | 5.41 | 15.5 | 5.42 |
| 70 (98) | 10 | 7.50 | 1.38 | 8.84 | 1.60 | 10.18 | 1.82 | 10.85 | 1.94 | 11.5 | 2.06 | 12.9 | 2.30 | 14.2 | 2.55 |
| | 12 | 7.50 | 1.39 | 8.84 | 1.62 | 10.18 | 1.85 | 10.85 | 1.97 | 11.5 | 2.09 | 12.9 | 2.34 | 14.2 | 2.59 |
| | 14 | 7.50 | 1.41 | 8.84 | 1.64 | 10.18 | 1.88 | 10.85 | 2.00 | 11.5 | 2.13 | 12.9 | 2.38 | 14.2 | 2.64 |
| | 16 | 7.50 | 1.43 | 8.84 | 1.67 | 10.18 | 1.91 | 10.85 | 2.04 | 11.5 | 2.16 | 12.9 | 2.42 | 14.2 | 2.68 |
| | 18 | 7.50 | 1.46 | 8.84 | 1.69 | 10.18 | 1.94 | 10.85 | 2.07 | 11.5 | 2.20 | 12.9 | 2.46 | 14.2 | 2.73 |
| | 20 | 7.50 | 1.48 | 8.84 | 1.72 | 10.18 | 1.97 | 10.85 | 2.10 | 11.5 | 2.24 | 12.9 | 2.50 | 14.2 | 2.80 |
| | 21 | 7.50 | 1.49 | 8.84 | 1.74 | 10.18 | 1.99 | 10.85 | 2.12 | 11.5 | 2.26 | 12.9 | 2.55 | 14.2 | 2.90 |
| | 23 | 7.50 | 1.51 | 8.84 | 1.76 | 10.18 | 2.04 | 10.85 | 2.21 | 11.5 | 2.37 | 12.9 | 2.73 | 14.2 | 3.11 |
| | 25 | 7.50 | 1.55 | 8.84 | 1.85 | 10.18 | 2.18 | 10.85 | 2.35 | 11.5 | 2.53 | 12.9 | 2.91 | 14.2 | 3.32 |
| | 27 | 7.50 | 1.64 | 8.84 | 1.97 | 10.18 | 2.32 | 10.85 | 2.51 | 11.5 | 2.70 | 12.9 | 3.11 | 14.2 | 3.55 |
| | 29 | 7.50 | 1.74 | 8.84 | 2.09 | 10.18 | 2.47 | 10.85 | 2.67 | 11.5 | 2.88 | 12.9 | 3.31 | 14.2 | 3.78 |
| | 31 | 7.50 | 1.85 | 8.84 | 2.22 | 10.18 | 2.62 | 10.85 | 2.84 | 11.5 | 3.06 | 12.9 | 3.53 | 14.2 | 4.03 |
| | 33 | 7.50 | 1.96 | 8.84 | 2.36 | 10.18 | 2.79 | 10.85 | 3.02 | 11.5 | 3.25 | 12.9 | 3.75 | 14.2 | 4.29 |
| | 35 | 7.50 | 2.07 | 8.84 | 2.50 | 10.18 | 2.96 | 10.85 | 3.20 | 11.5 | 3.45 | 12.9 | 3.99 | 14.2 | 4.56 |
| | 37 | 7.50 | 2.19 | 8.84 | 2.64 | 10.18 | 3.13 | 10.85 | 3.40 | 11.5 | 3.67 | 12.9 | 4.24 | 14.2 | 4.85 |
| | 39 | 7.50 | 2.32 | 8.84 | 2.80 | 10.18 | 3.32 | 10.85 | 3.60 | 11.5 | 3.89 | 12.9 | 4.50 | 14.2 | 5.16 |
| 60 (84) | 10 | 6.42 | 1.21 | 7.57 | 1.39 | 8.72 | 1.58 | 9.30 | 1.67 | 9.88 | 1.77 | 11.03 | 1.97 | 12.2 | 2.18 |
| | 12 | 6.42 | 1.22 | 7.57 | 1.41 | 8.72 | 1.60 | 9.30 | 1.70 | 9.88 | 1.80 | 11.03 | 2.00 | 12.2 | 2.21 |
| | 14 | 6.42 | 1.24 | 7.57 | 1.43 | 8.72 | 1.62 | 9.30 | 1.72 | 9.88 | 1.83 | 11.03 | 2.04 | 12.2 | 2.25 |
| | 16 | 6.42 | 1.26 | 7.57 | 1.45 | 8.72 | 1.65 | 9.30 | 1.75 | 9.88 | 1.86 | 11.03 | 2.07 | 12.2 | 2.29 |
| | 18 | 6.42 | 1.27 | 7.57 | 1.47 | 8.72 | 1.67 | 9.30 | 1.78 | 9.88 | 1.89 | 11.03 | 2.10 | 12.2 | 2.33 |
| | 20 | 6.42 | 1.29 | 7.57 | 1.49 | 8.72 | 1.70 | 9.30 | 1.81 | 9.88 | 1.92 | 11.03 | 2.14 | 12.2 | 2.37 |
| | 21 | 6.42 | 1.30 | 7.57 | 1.50 | 8.72 | 1.71 | 9.30 | 1.82 | 9.88 | 1.93 | 11.03 | 2.16 | 12.2 | 2.39 |
| | 23 | 6.42 | 1.32 | 7.57 | 1.53 | 8.72 | 1.74 | 9.30 | 1.85 | 9.88 | 1.97 | 11.03 | 2.25 | 12.2 | 2.54 |
| | 25 | 6.42 | 1.34 | 7.57 | 1.56 | 8.72 | 1.82 | 9.30 | 1.96 | 9.88 | 2.10 | 11.03 | 2.40 | 12.2 | 2.72 |
| | 27 | 6.42 | 1.40 | 7.57 | 1.66 | 8.72 | 1.94 | 9.30 | 2.09 | 9.88 | 2.24 | 11.03 | 2.56 | 12.2 | 2.90 |
| | 29 | 6.42 | 1.49 | 7.57 | 1.76 | 8.72 | 2.06 | 9.30 | 2.22 | 9.88 | 2.38 | 11.03 | 2.72 | 12.2 | 3.09 |
| | 31 | 6.42 | 1.58 | 7.57 | 1.87 | 8.72 | 2.19 | 9.30 | 2.36 | 9.88 | 2.53 | 11.03 | 2.90 | 12.2 | 3.28 |
| | 33 | 6.42 | 1.67 | 7.57 | 1.98 | 8.72 | 2.32 | 9.30 | 2.50 | 9.88 | 2.69 | 11.03 | 3.08 | 12.2 | 3.49 |
| | 35 | 6.42 | 1.76 | 7.57 | 2.10 | 8.72 | 2.46 | 9.30 | 2.65 | 9.88 | 2.85 | 11.03 | 3.27 | 12.2 | 3.71 |
| | 37 | 6.42 | 1.86 | 7.57 | 2.22 | 8.72 | 2.60 | 9.30 | 2.81 | 9.88 | 3.02 | 11.03 | 3.47 | 12.2 | 3.94 |
| | 39 | 6.42 | 1.96 | 7.57 | 2.34 | 8.72 | 2.76 | 9.30 | 2.97 | 9.88 | 3.20 | 11.03 | 3.68 | 12.2 | 4.18 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

**Cooling capacity**

| Combination (%) (Capacity index) | Outdoor air temp. °CDB | Indoor air temp. °CWB | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14.0 | | 16.0 | | 18.0 | | 19.0 | | 20.0 | | 22.0 | | 24.0 | |
| | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 50 (70) | 10 | 5.35 | 1.04 | 6.31 | 1.19 | 7.27 | 1.34 | 7.75 | 1.42 | 8.23 | 1.49 | 9.19 | 1.65 | 10.15 | 1.82 |
| | 12 | 5.35 | 1.06 | 6.31 | 1.20 | 7.27 | 1.36 | 7.75 | 1.44 | 8.23 | 1.52 | 9.19 | 1.68 | 10.15 | 1.85 |
| | 14 | 5.35 | 1.07 | 6.31 | 1.22 | 7.27 | 1.38 | 7.75 | 1.46 | 8.23 | 1.54 | 9.19 | 1.70 | 10.15 | 1.88 |
| | 16 | 5.35 | 1.08 | 6.31 | 1.24 | 7.27 | 1.40 | 7.75 | 1.48 | 8.23 | 1.56 | 9.19 | 1.73 | 10.15 | 1.91 |
| | 18 | 5.35 | 1.10 | 6.31 | 1.25 | 7.27 | 1.42 | 7.75 | 1.50 | 8.23 | 1.59 | 9.19 | 1.76 | 10.15 | 1.94 |
| | 20 | 5.35 | 1.11 | 6.31 | 1.27 | 7.27 | 1.44 | 7.75 | 1.52 | 8.23 | 1.61 | 9.19 | 1.79 | 10.15 | 1.97 |
| | 21 | 5.35 | 1.12 | 6.31 | 1.28 | 7.27 | 1.45 | 7.75 | 1.54 | 8.23 | 1.62 | 9.19 | 1.80 | 10.15 | 1.99 |
| | 23 | 5.35 | 1.13 | 6.31 | 1.30 | 7.27 | 1.47 | 7.75 | 1.56 | 8.23 | 1.65 | 9.19 | 1.83 | 10.15 | 2.04 |
| | 25 | 5.35 | 1.15 | 6.31 | 1.32 | 7.27 | 1.50 | 7.75 | 1.60 | 8.23 | 1.71 | 9.19 | 1.93 | 10.15 | 2.17 |
| | 27 | 5.35 | 1.18 | 6.31 | 1.38 | 7.27 | 1.59 | 7.75 | 1.70 | 8.23 | 1.82 | 9.19 | 2.06 | 10.15 | 2.31 |
| | 29 | 5.35 | 1.25 | 6.31 | 1.46 | 7.27 | 1.69 | 7.75 | 1.81 | 8.23 | 1.93 | 9.19 | 2.19 | 10.15 | 2.46 |
| | 31 | 5.35 | 1.32 | 6.31 | 1.55 | 7.27 | 1.79 | 7.75 | 1.92 | 8.23 | 2.05 | 9.19 | 2.32 | 10.15 | 2.61 |
| | 33 | 5.35 | 1.40 | 6.31 | 1.64 | 7.27 | 1.90 | 7.75 | 2.03 | 8.23 | 2.17 | 9.19 | 2.46 | 10.15 | 2.78 |
| | 35 | 5.35 | 1.47 | 6.31 | 1.73 | 7.27 | 2.00 | 7.75 | 2.15 | 8.23 | 2.30 | 9.19 | 2.61 | 10.15 | 2.94 |
| | 37 | 5.35 | 1.55 | 6.31 | 1.83 | 7.27 | 2.12 | 7.75 | 2.27 | 8.23 | 2.43 | 9.19 | 2.77 | 10.15 | 3.12 |
| | 39 | 5.35 | 1.64 | 6.31 | 1.93 | 7.27 | 2.24 | 7.75 | 2.40 | 8.23 | 2.57 | 9.19 | 2.93 | 10.15 | 3.31 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

13

## 8.1.2 Heating Capacity

### RXYM4MVM(T)

**Heating capacity**

| Combination (%) (Capacity index) | Outdoor air temp. | | Indoor air temp. °CDB | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | | 18.0 | | 20.0 | | 21.0 | | 22.0 | | 24.0 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °CDB | °CWB | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 130 (130) | -14.7 | -15.0 | 13.7 | 5.53 | 13.4 | 5.53 | 13.0 | 5.53 | 12.8 | 5.53 | 12.6 | 5.53 | 12.3 | 5.53 |
| | -12.6 | -13.0 | 14.2 | 5.53 | 13.8 | 5.53 | 13.5 | 5.53 | 13.3 | 5.53 | 13.1 | 5.53 | 12.8 | 5.53 |
| | -10.5 | -11.0 | 14.6 | 5.53 | 14.3 | 5.53 | 13.9 | 5.53 | 13.7 | 5.53 | 13.6 | 5.53 | 13.2 | 5.53 |
| | -9.5 | -10.0 | 14.9 | 5.53 | 14.5 | 5.53 | 14.2 | 5.53 | 14.0 | 5.53 | 13.8 | 5.53 | 13.5 | 5.53 |
| | -8.5 | -9.1 | 15.1 | 5.53 | 14.7 | 5.53 | 14.4 | 5.53 | 14.2 | 5.53 | 14.0 | 5.53 | 13.6 | 5.38 |
| | -7.0 | -7.6 | 15.4 | 5.53 | 15.1 | 5.53 | 14.7 | 5.53 | 14.5 | 5.53 | 14.4 | 5.53 | 13.6 | 5.15 |
| | -5.0 | -5.6 | 15.9 | 5.53 | 15.5 | 5.53 | 15.2 | 5.53 | 15.0 | 5.53 | 14.8 | 5.45 | 13.6 | 4.87 |
| | -3.0 | -3.7 | 16.3 | 5.53 | 16.0 | 5.53 | 15.6 | 5.53 | 15.4 | 5.46 | 14.9 | 5.17 | 13.6 | 4.62 |
| | 0.0 | -0.7 | 17.0 | 5.53 | 16.7 | 5.53 | 16.1 | 5.31 | 15.5 | 5.05 | 14.9 | 4.79 | 13.6 | 4.29 |
| | 3.0 | 2.2 | 17.7 | 5.53 | 17.3 | 5.45 | 16.1 | 4.95 | 15.5 | 4.71 | 14.9 | 4.47 | 13.7 | 4.01 |
| | 5.0 | 4.1 | 18.1 | 5.53 | 17.4 | 5.21 | 16.2 | 4.74 | 15.5 | 4.51 | 14.9 | 4.28 | 13.7 | 3.84 |
| | 7.0 | 6.0 | 18.6 | 5.46 | 17.4 | 4.99 | 16.2 | 4.54 | 15.5 | 4.32 | 14.9 | 4.11 | 13.7 | 3.69 |
| | 9.0 | 7.9 | 18.7 | 5.24 | 17.4 | 4.79 | 16.2 | 4.36 | 15.6 | 4.16 | 14.9 | 3.95 | 13.7 | 3.55 |
| | 11.0 | 9.8 | 18.7 | 5.03 | 17.4 | 4.61 | 16.2 | 4.20 | 15.6 | 4.00 | 14.9 | 3.80 | 13.7 | 3.42 |
| | 13.0 | 11.8 | 18.7 | 4.83 | 17.4 | 4.43 | 16.2 | 4.04 | 15.6 | 3.85 | 14.9 | 3.66 | 13.7 | 3.30 |
| | 15.0 | 13.7 | 18.7 | 4.65 | 17.5 | 4.27 | 16.2 | 3.89 | 15.6 | 3.71 | 15.0 | 3.53 | 13.7 | 3.19 |
| 120 (120) | -14.7 | -15.0 | 13.3 | 5.53 | 13.0 | 5.53 | 12.7 | 5.53 | 12.5 | 5.53 | 12.3 | 5.53 | 12.0 | 5.53 |
| | -12.6 | -13.0 | 13.8 | 5.53 | 13.4 | 5.53 | 13.1 | 5.53 | 13.0 | 5.53 | 12.8 | 5.53 | 12.5 | 5.50 |
| | -10.5 | -11.0 | 14.2 | 5.53 | 13.9 | 5.53 | 13.6 | 5.53 | 13.4 | 5.53 | 13.3 | 5.53 | 12.6 | 5.15 |
| | -9.5 | -10.0 | 14.5 | 5.53 | 14.1 | 5.53 | 13.8 | 5.53 | 13.6 | 5.53 | 13.5 | 5.53 | 12.6 | 5.00 |
| | -8.5 | -9.1 | 14.7 | 5.53 | 14.3 | 5.53 | 14.0 | 5.53 | 13.9 | 5.53 | 13.7 | 5.44 | 12.6 | 4.86 |
| | -7.0 | -7.6 | 15.0 | 5.53 | 14.7 | 5.53 | 14.4 | 5.53 | 14.2 | 5.49 | 13.7 | 5.21 | 12.6 | 4.66 |
| | -5.0 | -5.6 | 15.5 | 5.53 | 15.2 | 5.53 | 14.8 | 5.46 | 14.3 | 5.19 | 13.7 | 4.92 | 12.6 | 4.41 |
| | -3.0 | -3.7 | 15.9 | 5.53 | 15.6 | 5.53 | 14.9 | 5.19 | 14.3 | 4.93 | 13.7 | 4.68 | 12.6 | 4.19 |
| | 0.0 | -0.7 | 16.6 | 5.53 | 16.1 | 5.28 | 14.9 | 4.80 | 14.3 | 4.57 | 13.8 | 4.34 | 12.6 | 3.89 |
| | 3.0 | 2.2 | 17.2 | 5.38 | 16.1 | 4.92 | 14.9 | 4.48 | 14.4 | 4.27 | 13.8 | 4.05 | 12.6 | 3.64 |
| | 5.0 | 4.1 | 17.2 | 5.15 | 16.1 | 4.71 | 14.9 | 4.29 | 14.4 | 4.09 | 13.8 | 3.89 | 12.6 | 3.50 |
| | 7.0 | 6.0 | 17.3 | 4.93 | 16.1 | 4.52 | 14.9 | 4.12 | 14.4 | 3.92 | 13.8 | 3.73 | 12.6 | 3.36 |
| | 9.0 | 7.9 | 17.3 | 4.74 | 16.1 | 4.34 | 15.0 | 3.96 | 14.4 | 3.77 | 13.8 | 3.59 | 12.6 | 3.24 |
| | 11.0 | 9.8 | 17.3 | 4.55 | 16.1 | 4.18 | 15.0 | 3.81 | 14.4 | 3.64 | 13.8 | 3.46 | 12.6 | 3.12 |
| | 13.0 | 11.8 | 17.3 | 4.38 | 16.1 | 4.02 | 15.0 | 3.67 | 14.4 | 3.50 | 13.8 | 3.33 | 12.6 | 3.01 |
| | 15.0 | 13.7 | 17.3 | 4.22 | 16.1 | 3.87 | 15.0 | 3.54 | 14.4 | 3.38 | 13.8 | 3.22 | 12.6 | 2.91 |
| 110 (110) | -14.7 | -15.0 | 12.9 | 5.53 | 12.6 | 5.53 | 12.3 | 5.53 | 12.2 | 5.53 | 12.0 | 5.53 | 11.5 | 5.27 |
| | -12.6 | -13.0 | 13.4 | 5.53 | 13.1 | 5.53 | 12.8 | 5.53 | 12.6 | 5.53 | 12.5 | 5.51 | 11.5 | 4.92 |
| | -10.5 | -11.0 | 13.8 | 5.53 | 13.5 | 5.53 | 13.2 | 5.53 | 13.1 | 5.45 | 12.6 | 5.17 | 11.5 | 4.62 |
| | -9.5 | -10.0 | 14.1 | 5.53 | 13.8 | 5.53 | 13.5 | 5.53 | 13.1 | 5.28 | 12.6 | 5.01 | 11.5 | 4.48 |
| | -8.5 | -9.1 | 14.3 | 5.53 | 14.0 | 5.53 | 13.6 | 5.41 | 13.1 | 5.14 | 12.6 | 4.88 | 11.5 | 4.37 |
| | -7.0 | -7.6 | 14.6 | 5.53 | 14.3 | 5.53 | 13.7 | 5.18 | 13.1 | 4.92 | 12.6 | 4.67 | 11.5 | 4.18 |
| | -5.0 | -5.6 | 15.1 | 5.53 | 14.7 | 5.38 | 13.7 | 4.89 | 13.1 | 4.65 | 12.6 | 4.42 | 11.6 | 3.96 |
| | -3.0 | -3.7 | 15.5 | 5.53 | 14.7 | 5.11 | 13.7 | 4.65 | 13.1 | 4.42 | 12.6 | 4.20 | 11.6 | 3.78 |
| | 0.0 | -0.7 | 15.8 | 5.17 | 14.8 | 4.73 | 13.7 | 4.31 | 13.2 | 4.11 | 12.6 | 3.90 | 11.6 | 3.51 |
| | 3.0 | 2.2 | 15.8 | 4.82 | 14.8 | 4.42 | 13.7 | 4.03 | 13.2 | 3.84 | 12.7 | 3.65 | 11.6 | 3.29 |
| | 5.0 | 4.1 | 15.8 | 4.62 | 14.8 | 4.23 | 13.7 | 3.86 | 13.2 | 3.68 | 12.7 | 3.51 | 11.6 | 3.16 |
| | 7.0 | 6.0 | 15.8 | 4.43 | 14.8 | 4.06 | 13.7 | 3.71 | 13.2 | 3.54 | 12.7 | 3.37 | 11.6 | 3.04 |
| | 9.0 | 7.9 | 15.9 | 4.25 | 14.8 | 3.91 | 13.7 | 3.57 | 13.2 | 3.41 | 12.7 | 3.25 | 11.6 | 2.93 |
| | 11.0 | 9.8 | 15.9 | 4.09 | 14.8 | 3.76 | 13.7 | 3.44 | 13.2 | 3.28 | 12.7 | 3.13 | 11.6 | 2.83 |
| | 13.0 | 11.8 | 15.9 | 3.94 | 14.8 | 3.62 | 13.8 | 3.31 | 13.2 | 3.16 | 12.7 | 3.02 | 11.6 | 2.73 |
| | 15.0 | 13.7 | 15.9 | 3.80 | 14.8 | 3.50 | 13.8 | 3.20 | 13.2 | 3.06 | 12.7 | 2.92 | 11.6 | 2.64 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

Heating capacity

| Combination (%) (Capacity index) | Outdoor air temp. | | Indoor air temp. °CDB | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | | 18.0 | | 20.0 | | 21.0 | | 22.0 | | 24.0 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °CDB | °CWB | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 100 (100) | -14.7 | -15.0 | 12.5 | 5.53 | 12.2 | 5.53 | 12.0 | 5.53 | 11.8 | 5.51 | 11.4 | 5.23 | 10.5 | 4.67 |
| | -12.6 | -13.0 | 13.0 | 5.53 | 12.7 | 5.53 | 12.4 | 5.42 | 11.9 | 5.15 | 11.4 | 4.89 | 10.5 | 4.37 |
| | -10.5 | -11.0 | 13.4 | 5.53 | 13.2 | 5.53 | 12.4 | 5.08 | 11.9 | 4.83 | 11.5 | 4.59 | 10.5 | 4.11 |
| | -9.5 | -10.0 | 13.7 | 5.53 | 13.4 | 5.42 | 12.4 | 4.93 | 11.9 | 4.69 | 11.5 | 4.45 | 10.5 | 3.99 |
| | -8.5 | -9.1 | 13.9 | 5.53 | 13.4 | 5.28 | 12.4 | 4.80 | 11.9 | 4.56 | 11.5 | 4.33 | 10.5 | 3.89 |
| | -7.0 | -7.6 | 14.2 | 5.52 | 13.4 | 5.05 | 12.4 | 4.59 | 12.0 | 4.37 | 11.5 | 4.15 | 10.5 | 3.73 |
| | -5.0 | -5.6 | 14.4 | 5.22 | 13.4 | 4.77 | 12.4 | 4.35 | 12.0 | 4.14 | 11.5 | 3.94 | 10.5 | 3.54 |
| | -3.0 | -3.7 | 14.4 | 4.95 | 13.4 | 4.54 | 12.5 | 4.14 | 12.0 | 3.94 | 11.5 | 3.75 | 10.5 | 3.38 |
| | 0.0 | -0.7 | 14.4 | 4.59 | 13.4 | 4.21 | 12.5 | 3.84 | 12.0 | 3.66 | 11.5 | 3.49 | 10.5 | 3.15 |
| | 3.0 | 2.2 | 14.4 | 4.29 | 13.4 | 3.94 | 12.5 | 3.60 | 12.0 | 3.43 | 11.5 | 3.27 | 10.5 | 2.95 |
| | 5.0 | 4.1 | 14.4 | 4.11 | 13.5 | 3.78 | 12.5 | 3.45 | 12.0 | 3.30 | 11.5 | 3.14 | 10.5 | 2.84 |
| | 7.0 | 6.0 | 14.4 | 3.94 | 13.5 | 3.63 | 12.5 | 3.32 | 12.0 | 3.17 | 11.5 | 3.02 | 10.5 | 2.74 |
| | 9.0 | 7.9 | 14.4 | 3.79 | 13.5 | 3.49 | 12.5 | 3.20 | 12.0 | 3.05 | 11.5 | 2.91 | 10.5 | 2.64 |
| | 11.0 | 9.8 | 14.4 | 3.65 | 13.5 | 3.36 | 12.5 | 3.08 | 12.0 | 2.95 | 11.5 | 2.81 | 10.5 | 2.55 |
| | 13.0 | 11.8 | 14.5 | 3.52 | 13.5 | 3.24 | 12.5 | 2.97 | 12.0 | 2.84 | 11.5 | 2.71 | 10.5 | 2.46 |
| | 15.0 | 13.7 | 14.5 | 3.40 | 13.5 | 3.13 | 12.5 | 2.87 | 12.0 | 2.75 | 11.5 | 2.63 | 10.5 | 2.38 |
| 90 (90) | -14.7 | -15.0 | 12.1 | 5.53 | 11.9 | 5.53 | 11.2 | 5.07 | 10.7 | 4.82 | 10.3 | 4.58 | 9.45 | 4.11 |
| | -12.6 | -13.0 | 12.6 | 5.53 | 12.1 | 5.22 | 11.2 | 4.74 | 10.8 | 4.51 | 10.3 | 4.29 | 9.46 | 3.85 |
| | -10.5 | -11.0 | 12.9 | 5.35 | 12.1 | 4.90 | 11.2 | 4.46 | 10.8 | 4.24 | 10.3 | 4.03 | 9.47 | 3.63 |
| | -9.5 | -10.0 | 12.9 | 5.19 | 12.1 | 4.75 | 11.2 | 4.32 | 10.8 | 4.12 | 10.3 | 3.92 | 9.47 | 3.52 |
| | -8.5 | -9.1 | 12.9 | 5.05 | 12.1 | 4.62 | 11.2 | 4.21 | 10.8 | 4.01 | 10.3 | 3.82 | 9.48 | 3.44 |
| | -7.0 | -7.6 | 12.9 | 4.83 | 12.1 | 4.43 | 11.2 | 4.04 | 10.8 | 3.85 | 10.4 | 3.66 | 9.48 | 3.30 |
| | -5.0 | -5.6 | 13.0 | 4.57 | 12.1 | 4.19 | 11.2 | 3.83 | 10.8 | 3.65 | 10.4 | 3.47 | 9.48 | 3.13 |
| | -3.0 | -3.7 | 13.0 | 4.35 | 12.1 | 3.99 | 11.2 | 3.65 | 10.8 | 3.48 | 10.4 | 3.31 | 9.48 | 2.99 |
| | 0.0 | -0.7 | 13.0 | 4.04 | 12.1 | 3.71 | 11.3 | 3.40 | 10.8 | 3.24 | 10.4 | 3.09 | 9.48 | 2.79 |
| | 3.0 | 2.2 | 13.0 | 3.78 | 12.1 | 3.47 | 11.3 | 3.18 | 10.8 | 3.04 | 10.4 | 2.90 | 9.48 | 2.63 |
| | 5.0 | 4.1 | 13.0 | 3.62 | 12.1 | 3.34 | 11.3 | 3.06 | 10.8 | 2.92 | 10.4 | 2.79 | 9.48 | 2.53 |
| | 7.0 | 6.0 | 13.0 | 3.48 | 12.1 | 3.21 | 11.3 | 2.94 | 10.8 | 2.82 | 10.4 | 2.69 | 9.48 | 2.44 |
| | 9.0 | 7.9 | 13.0 | 3.35 | 12.1 | 3.09 | 11.3 | 2.84 | 10.8 | 2.71 | 10.4 | 2.59 | 9.48 | 2.36 |
| | 11.0 | 9.8 | 13.0 | 3.23 | 12.1 | 2.98 | 11.3 | 2.74 | 10.8 | 2.62 | 10.4 | 2.51 | 9.48 | 2.28 |
| | 13.0 | 11.8 | 13.0 | 3.11 | 12.1 | 2.88 | 11.3 | 2.64 | 10.8 | 2.53 | 10.4 | 2.42 | 9.48 | 2.20 |
| | 15.0 | 13.7 | 13.0 | 3.01 | 12.1 | 2.78 | 11.3 | 2.56 | 10.8 | 2.45 | 10.4 | 2.34 | 9.48 | 2.13 |
| 80 (80) | -14.7 | -15.0 | 11.5 | 5.26 | 10.7 | 4.81 | 10.0 | 4.38 | 9.57 | 4.17 | 9.19 | 3.97 | 8.42 | 3.57 |
| | -12.6 | -13.0 | 11.5 | 4.92 | 10.7 | 4.50 | 10.0 | 4.11 | 9.58 | 3.91 | 9.20 | 3.72 | 8.43 | 3.35 |
| | -10.5 | -11.0 | 11.5 | 4.62 | 10.7 | 4.23 | 10.0 | 3.86 | 9.59 | 3.68 | 9.21 | 3.51 | 8.43 | 3.16 |
| | -9.5 | -10.0 | 11.5 | 4.48 | 10.8 | 4.11 | 10.0 | 3.75 | 9.60 | 3.58 | 9.21 | 3.41 | 8.43 | 3.08 |
| | -8.5 | -9.1 | 11.5 | 4.36 | 10.8 | 4.00 | 10.0 | 3.66 | 9.60 | 3.49 | 9.21 | 3.32 | 8.43 | 3.00 |
| | -7.0 | -7.6 | 11.5 | 4.18 | 10.8 | 3.84 | 10.0 | 3.51 | 9.61 | 3.35 | 9.21 | 3.19 | 8.43 | 2.89 |
| | -5.0 | -5.6 | 11.5 | 3.96 | 10.8 | 3.64 | 10.0 | 3.33 | 9.61 | 3.18 | 9.21 | 3.03 | 8.43 | 2.75 |
| | -3.0 | -3.7 | 11.6 | 3.77 | 10.8 | 3.47 | 10.0 | 3.18 | 9.61 | 3.04 | 9.21 | 2.90 | 8.43 | 2.63 |
| | 0.0 | -0.7 | 11.6 | 3.51 | 10.8 | 3.23 | 10.0 | 2.97 | 9.61 | 2.84 | 9.21 | 2.71 | 8.43 | 2.46 |
| | 3.0 | 2.2 | 11.6 | 3.29 | 10.8 | 3.03 | 10.0 | 2.79 | 9.61 | 2.67 | 9.21 | 2.55 | 8.43 | 2.32 |
| | 5.0 | 4.1 | 11.6 | 3.16 | 10.8 | 2.92 | 10.0 | 2.68 | 9.61 | 2.57 | 9.21 | 2.45 | 8.43 | 2.23 |
| | 7.0 | 6.0 | 11.6 | 3.04 | 10.8 | 2.81 | 10.0 | 2.58 | 9.61 | 2.47 | 9.21 | 2.37 | 8.43 | 2.15 |
| | 9.0 | 7.9 | 11.6 | 2.93 | 10.8 | 2.71 | 10.0 | 2.49 | 9.61 | 2.39 | 9.21 | 2.29 | 8.43 | 2.08 |
| | 11.0 | 9.8 | 11.6 | 2.83 | 10.8 | 2.62 | 10.0 | 2.41 | 9.61 | 2.31 | 9.21 | 2.21 | 8.43 | 2.02 |
| | 13.0 | 11.8 | 11.6 | 2.73 | 10.8 | 2.53 | 10.0 | 2.33 | 9.61 | 2.23 | 9.21 | 2.14 | 8.43 | 1.95 |
| | 15.0 | 13.7 | 11.6 | 2.64 | 10.8 | 2.45 | 10.0 | 2.26 | 9.61 | 2.16 | 9.21 | 2.07 | 8.43 | 1.89 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

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**Heating capacity**

| Combination (%) (Capacity index) | Outdoor air temp. | | Indoor air temp. °CDB | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | | 18.0 | | 20.0 | | 21.0 | | 22.0 | | 24.0 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °CDB | °CWB | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 70 (70) | -14.7 | -15.0 | 10.1 | 4.45 | 9.41 | 4.09 | 8.74 | 3.73 | 8.40 | 3.56 | 8.06 | 3.39 | 7.37 | 3.06 |
| | -12.6 | -13.0 | 10.1 | 4.17 | 9.42 | 3.83 | 8.75 | 3.50 | 8.41 | 3.34 | 8.06 | 3.19 | 7.37 | 2.88 |
| | -10.5 | -11.0 | 10.1 | 3.92 | 9.43 | 3.61 | 8.75 | 3.30 | 8.41 | 3.15 | 8.06 | 3.01 | 7.37 | 2.72 |
| | -9.5 | -10.0 | 10.1 | 3.81 | 9.43 | 3.51 | 8.75 | 3.21 | 8.41 | 3.07 | 8.06 | 2.93 | 7.37 | 2.65 |
| | -8.5 | -9.1 | 10.1 | 3.71 | 9.44 | 3.42 | 8.75 | 3.13 | 8.41 | 2.99 | 8.06 | 2.86 | 7.37 | 2.59 |
| | -7.0 | -7.6 | 10.1 | 3.56 | 9.44 | 3.28 | 8.75 | 3.01 | 8.41 | 2.88 | 8.06 | 2.75 | 7.37 | 2.49 |
| | -5.0 | -5.6 | 10.1 | 3.38 | 9.44 | 3.12 | 8.75 | 2.86 | 8.41 | 2.74 | 8.06 | 2.62 | 7.37 | 2.38 |
| | -3.0 | -3.7 | 10.1 | 3.23 | 9.44 | 2.98 | 8.75 | 2.74 | 8.41 | 2.62 | 8.06 | 2.50 | 7.37 | 2.28 |
| | 0.0 | -0.7 | 10.1 | 3.01 | 9.44 | 2.78 | 8.75 | 2.56 | 8.41 | 2.45 | 8.06 | 2.34 | 7.37 | 2.14 |
| | 3.0 | 2.2 | 10.1 | 2.83 | 9.44 | 2.62 | 8.75 | 2.41 | 8.41 | 2.31 | 8.06 | 2.21 | 7.37 | 2.02 |
| | 5.0 | 4.1 | 10.1 | 2.72 | 9.44 | 2.52 | 8.75 | 2.32 | 8.41 | 2.23 | 8.06 | 2.13 | 7.37 | 1.95 |
| | 7.0 | 6.0 | 10.1 | 2.62 | 9.44 | 2.43 | 8.75 | 2.24 | 8.41 | 2.15 | 8.06 | 2.06 | 7.37 | 1.88 |
| | 9.0 | 7.9 | 10.1 | 2.53 | 9.44 | 2.35 | 8.75 | 2.17 | 8.41 | 2.08 | 8.06 | 1.99 | 7.37 | 1.82 |
| | 11.0 | 9.8 | 10.1 | 2.44 | 9.44 | 2.27 | 8.75 | 2.10 | 8.41 | 2.01 | 8.06 | 1.93 | 7.37 | 1.76 |
| | 13.0 | 11.8 | 10.1 | 2.36 | 9.44 | 2.19 | 8.75 | 2.03 | 8.41 | 1.95 | 8.06 | 1.87 | 7.37 | 1.71 |
| | 15.0 | 13.7 | 10.1 | 2.29 | 9.44 | 2.13 | 8.75 | 1.97 | 8.41 | 1.89 | 8.06 | 1.81 | 7.37 | 1.66 |
| 60 (60) | -14.7 | -15.0 | 8.67 | 3.70 | 8.09 | 3.40 | 7.50 | 3.12 | 7.20 | 2.98 | 6.91 | 2.84 | 6.32 | 2.58 |
| | -12.6 | -13.0 | 8.68 | 3.47 | 8.09 | 3.20 | 7.50 | 2.94 | 7.20 | 2.81 | 6.91 | 2.68 | 6.32 | 2.43 |
| | -10.5 | -11.0 | 8.68 | 3.27 | 8.09 | 3.02 | 7.50 | 2.78 | 7.20 | 2.66 | 6.91 | 2.54 | 6.32 | 2.31 |
| | -9.5 | -10.0 | 8.68 | 3.18 | 8.09 | 2.94 | 7.50 | 2.70 | 7.20 | 2.59 | 6.91 | 2.47 | 6.32 | 2.25 |
| | -8.5 | -9.1 | 8.68 | 3.11 | 8.09 | 2.87 | 7.50 | 2.64 | 7.20 | 2.53 | 6.91 | 2.41 | 6.32 | 2.20 |
| | -7.0 | -7.6 | 8.68 | 2.99 | 8.09 | 2.76 | 7.50 | 2.54 | 7.20 | 2.43 | 6.91 | 2.33 | 6.32 | 2.12 |
| | -5.0 | -5.6 | 8.68 | 2.84 | 8.09 | 2.63 | 7.50 | 2.42 | 7.20 | 2.32 | 6.91 | 2.22 | 6.32 | 2.02 |
| | -3.0 | -3.7 | 8.68 | 2.71 | 8.09 | 2.51 | 7.50 | 2.32 | 7.20 | 2.22 | 6.91 | 2.13 | 6.32 | 1.94 |
| | 0.0 | -0.7 | 8.68 | 2.54 | 8.09 | 2.35 | 7.50 | 2.17 | 7.20 | 2.09 | 6.91 | 2.00 | 6.32 | 1.83 |
| | 3.0 | 2.2 | 8.68 | 2.39 | 8.09 | 2.22 | 7.50 | 2.05 | 7.20 | 1.97 | 6.91 | 1.89 | 6.32 | 1.73 |
| | 5.0 | 4.1 | 8.68 | 2.30 | 8.09 | 2.14 | 7.50 | 1.98 | 7.20 | 1.90 | 6.91 | 1.82 | 6.32 | 1.67 |
| | 7.0 | 6.0 | 8.68 | 2.22 | 8.09 | 2.07 | 7.50 | 1.91 | 7.20 | 1.84 | 6.91 | 1.76 | 6.32 | 1.62 |
| | 9.0 | 7.9 | 8.68 | 2.15 | 8.09 | 2.00 | 7.50 | 1.85 | 7.20 | 1.78 | 6.91 | 1.71 | 6.32 | 1.57 |
| | 11.0 | 9.8 | 8.68 | 2.08 | 8.09 | 1.94 | 7.50 | 1.79 | 7.20 | 1.73 | 6.91 | 1.66 | 6.32 | 1.52 |
| | 13.0 | 11.8 | 8.68 | 2.01 | 8.09 | 1.87 | 7.50 | 1.74 | 7.20 | 1.67 | 6.91 | 1.61 | 6.32 | 1.48 |
| | 15.0 | 13.7 | 8.68 | 1.95 | 8.09 | 1.82 | 7.50 | 1.69 | 7.20 | 1.63 | 6.91 | 1.56 | 6.32 | 1.44 |
| 50 (50) | -14.7 | -15.0 | 7.23 | 2.99 | 6.74 | 2.77 | 6.25 | 2.55 | 6.00 | 2.44 | 5.76 | 2.33 | 5.27 | 2.13 |
| | -12.6 | -13.0 | 7.23 | 2.82 | 6.74 | 2.61 | 6.25 | 2.41 | 6.00 | 2.30 | 5.76 | 2.21 | 5.27 | 2.01 |
| | -10.5 | -11.0 | 7.23 | 2.67 | 6.74 | 2.47 | 6.25 | 2.28 | 6.00 | 2.19 | 5.76 | 2.09 | 5.27 | 1.91 |
| | -9.5 | -10.0 | 7.23 | 2.60 | 6.74 | 2.41 | 6.25 | 2.22 | 6.00 | 2.13 | 5.76 | 2.04 | 5.27 | 1.87 |
| | -8.5 | -9.1 | 7.23 | 2.54 | 6.74 | 2.35 | 6.25 | 2.17 | 6.00 | 2.08 | 5.76 | 2.00 | 5.27 | 1.83 |
| | -7.0 | -7.6 | 7.23 | 2.44 | 6.74 | 2.27 | 6.25 | 2.10 | 6.00 | 2.01 | 5.76 | 1.93 | 5.27 | 1.76 |
| | -5.0 | -5.6 | 7.23 | 2.33 | 6.74 | 2.16 | 6.25 | 2.00 | 6.00 | 1.92 | 5.76 | 1.84 | 5.27 | 1.69 |
| | -3.0 | -3.7 | 7.23 | 2.23 | 6.74 | 2.07 | 6.25 | 1.92 | 6.00 | 1.85 | 5.76 | 1.77 | 5.27 | 1.62 |
| | 0.0 | -0.7 | 7.23 | 2.09 | 6.74 | 1.95 | 6.25 | 1.81 | 6.00 | 1.74 | 5.76 | 1.67 | 5.27 | 1.53 |
| | 3.0 | 2.2 | 7.23 | 1.98 | 6.74 | 1.84 | 6.25 | 1.71 | 6.00 | 1.65 | 5.76 | 1.58 | 5.27 | 1.46 |
| | 5.0 | 4.1 | 7.23 | 1.91 | 6.74 | 1.78 | 6.25 | 1.65 | 6.00 | 1.59 | 5.76 | 1.53 | 5.27 | 1.41 |
| | 7.0 | 6.0 | 7.23 | 1.85 | 6.74 | 1.72 | 6.25 | 1.60 | 6.00 | 1.54 | 5.76 | 1.48 | 5.27 | 1.37 |
| | 9.0 | 7.9 | 7.23 | 1.79 | 6.74 | 1.67 | 6.25 | 1.55 | 6.00 | 1.50 | 5.76 | 1.44 | 5.27 | 1.33 |
| | 11.0 | 9.8 | 7.23 | 1.73 | 6.74 | 1.62 | 6.25 | 1.51 | 6.00 | 1.45 | 5.76 | 1.40 | 5.27 | 1.29 |
| | 13.0 | 11.8 | 7.23 | 1.68 | 6.74 | 1.57 | 6.25 | 1.46 | 6.00 | 1.41 | 5.76 | 1.36 | 5.27 | 1.26 |
| | 15.0 | 13.7 | 7.23 | 1.63 | 6.74 | 1.53 | 6.25 | 1.42 | 6.00 | 1.37 | 5.76 | 1.32 | 5.27 | 1.22 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

## RXYM5MVM(T)

Heating capacity

| Combination (%) (Capacity index) | Outdoor air temp. | | Indoor air temp. °CDB | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | | 18.0 | | 20.0 | | 21.0 | | 22.0 | | 24.0 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °CDB | °CWB | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 130 (162.5) | -14.7 | -15.0 | 12.7 | 5.77 | 12.6 | 5.77 | 12.6 | 5.77 | 12.6 | 5.77 | 12.6 | 5.77 | 12.5 | 5.77 |
| | -12.6 | -13.0 | 13.3 | 5.77 | 13.3 | 5.77 | 13.3 | 5.77 | 13.2 | 5.77 | 13.2 | 5.77 | 13.2 | 5.77 |
| | -10.5 | -11.0 | 14.0 | 5.77 | 14.0 | 5.77 | 13.9 | 5.77 | 13.9 | 5.77 | 13.9 | 5.77 | 13.9 | 5.77 |
| | -9.5 | -10.0 | 14.3 | 5.77 | 14.3 | 5.77 | 14.3 | 5.77 | 14.2 | 5.77 | 14.2 | 5.77 | 14.2 | 5.77 |
| | -8.5 | -9.1 | 14.6 | 5.77 | 14.6 | 5.77 | 14.6 | 5.77 | 14.5 | 5.77 | 14.5 | 5.77 | 14.5 | 5.77 |
| | -7.0 | -7.6 | 15.1 | 5.77 | 15.1 | 5.77 | 15.1 | 5.77 | 15.0 | 5.77 | 15.0 | 5.77 | 15.0 | 5.77 |
| | -5.0 | -5.6 | 15.8 | 5.77 | 15.8 | 5.77 | 15.7 | 5.77 | 15.7 | 5.77 | 15.7 | 5.77 | 15.6 | 5.77 |
| | -3.0 | -3.7 | 16.4 | 5.77 | 16.4 | 5.77 | 16.3 | 5.77 | 16.3 | 5.77 | 16.3 | 5.77 | 16.3 | 5.77 |
| | 0.0 | -0.7 | 17.4 | 5.77 | 17.4 | 5.77 | 17.3 | 5.77 | 17.3 | 5.77 | 17.3 | 5.77 | 17.3 | 5.77 |
| | 3.0 | 2.2 | 18.4 | 5.77 | 18.3 | 5.77 | 18.3 | 5.77 | 18.3 | 5.77 | 18.3 | 5.77 | 17.5 | 5.53 |
| | 5.0 | 4.1 | 19.0 | 5.77 | 19.0 | 5.77 | 18.9 | 5.77 | 18.9 | 5.77 | 18.9 | 5.77 | 17.5 | 5.30 |
| | 7.0 | 6.0 | 19.6 | 5.77 | 19.6 | 5.77 | 19.5 | 5.77 | 19.5 | 5.77 | 19.1 | 5.67 | 17.5 | 5.09 |
| | 9.0 | 7.9 | 20.3 | 5.77 | 20.2 | 5.77 | 20.2 | 5.77 | 19.9 | 5.73 | 19.1 | 5.45 | 17.5 | 4.90 |
| | 11.0 | 9.8 | 20.9 | 5.77 | 20.8 | 5.77 | 20.7 | 5.77 | 19.9 | 5.52 | 19.1 | 5.25 | 17.5 | 4.72 |
| | 13.0 | 11.8 | 21.5 | 5.77 | 21.5 | 5.77 | 20.7 | 5.57 | 19.9 | 5.31 | 19.1 | 5.05 | 17.5 | 4.55 |
| | 15.0 | 13.7 | 22.2 | 5.77 | 22.1 | 5.77 | 20.7 | 5.37 | 19.9 | 5.12 | 19.1 | 4.88 | 17.5 | 4.40 |
| 120 (150) | -14.7 | -15.0 | 12.6 | 5.77 | 12.6 | 5.77 | 12.6 | 5.77 | 12.6 | 5.77 | 12.5 | 5.77 | 12.5 | 5.77 |
| | -12.6 | -13.0 | 13.3 | 5.77 | 13.3 | 5.77 | 13.2 | 5.77 | 13.2 | 5.77 | 13.2 | 5.77 | 13.2 | 5.77 |
| | -10.5 | -11.0 | 14.0 | 5.77 | 13.9 | 5.77 | 13.9 | 5.77 | 13.9 | 5.77 | 13.9 | 5.77 | 13.8 | 5.77 |
| | -9.5 | -10.0 | 14.3 | 5.77 | 14.3 | 5.77 | 14.2 | 5.77 | 14.2 | 5.77 | 14.2 | 5.77 | 14.2 | 5.77 |
| | -8.5 | -9.1 | 14.6 | 5.77 | 14.6 | 5.77 | 14.5 | 5.77 | 14.5 | 5.77 | 14.5 | 5.77 | 14.4 | 5.77 |
| | -7.0 | -7.6 | 15.1 | 5.77 | 15.1 | 5.77 | 15.0 | 5.77 | 15.0 | 5.77 | 15.0 | 5.77 | 14.9 | 5.77 |
| | -5.0 | -5.6 | 15.7 | 5.77 | 15.7 | 5.77 | 15.7 | 5.77 | 15.7 | 5.77 | 15.6 | 5.77 | 15.6 | 5.77 |
| | -3.0 | -3.7 | 16.4 | 5.77 | 16.3 | 5.77 | 16.3 | 5.77 | 16.3 | 5.77 | 16.3 | 5.77 | 16.1 | 5.77 |
| | 0.0 | -0.7 | 17.4 | 5.77 | 17.3 | 5.77 | 17.3 | 5.77 | 17.3 | 5.77 | 17.3 | 5.77 | 16.1 | 5.37 |
| | 3.0 | 2.2 | 18.3 | 5.77 | 18.3 | 5.77 | 18.3 | 5.77 | 18.2 | 5.77 | 17.6 | 5.59 | 16.2 | 5.03 |
| | 5.0 | 4.1 | 19.0 | 5.77 | 18.9 | 5.77 | 18.9 | 5.77 | 18.4 | 5.64 | 17.6 | 5.36 | 16.2 | 4.82 |
| | 7.0 | 6.0 | 19.6 | 5.77 | 19.5 | 5.77 | 19.1 | 5.68 | 18.4 | 5.41 | 17.7 | 5.15 | 16.2 | 4.64 |
| | 9.0 | 7.9 | 20.2 | 5.77 | 20.2 | 5.77 | 19.1 | 5.46 | 18.4 | 5.21 | 17.7 | 4.96 | 16.2 | 4.47 |
| | 11.0 | 9.8 | 20.8 | 5.77 | 20.6 | 5.76 | 19.2 | 5.26 | 18.4 | 5.01 | 17.7 | 4.77 | 16.2 | 4.31 |
| | 13.0 | 11.8 | 21.5 | 5.77 | 20.6 | 5.54 | 19.2 | 5.06 | 18.4 | 4.83 | 17.7 | 4.60 | 16.2 | 4.15 |
| | 15.0 | 13.7 | 22.1 | 5.77 | 20.7 | 5.35 | 19.2 | 4.89 | 18.4 | 4.66 | 17.7 | 4.44 | 16.2 | 4.01 |
| 110 (137.5) | -14.7 | -15.0 | 12.6 | 5.77 | 12.6 | 5.77 | 12.5 | 5.77 | 12.5 | 5.77 | 12.5 | 5.77 | 12.5 | 5.77 |
| | -12.6 | -13.0 | 13.3 | 5.77 | 13.2 | 5.77 | 13.2 | 5.77 | 13.2 | 5.77 | 13.2 | 5.77 | 13.1 | 5.77 |
| | -10.5 | -11.0 | 13.9 | 5.77 | 13.9 | 5.77 | 13.9 | 5.77 | 13.8 | 5.77 | 13.8 | 5.77 | 13.8 | 5.77 |
| | -9.5 | -10.0 | 14.2 | 5.77 | 14.2 | 5.77 | 14.2 | 5.77 | 14.2 | 5.77 | 14.2 | 5.77 | 14.1 | 5.77 |
| | -8.5 | -9.1 | 14.5 | 5.77 | 14.5 | 5.77 | 14.5 | 5.77 | 14.5 | 5.77 | 14.4 | 5.77 | 14.4 | 5.77 |
| | -7.0 | -7.6 | 15.0 | 5.77 | 15.0 | 5.77 | 15.0 | 5.77 | 15.0 | 5.77 | 14.9 | 5.77 | 14.8 | 5.77 |
| | -5.0 | -5.6 | 15.7 | 5.77 | 15.7 | 5.77 | 15.6 | 5.77 | 15.6 | 5.77 | 15.6 | 5.77 | 14.8 | 5.47 |
| | -3.0 | -3.7 | 16.3 | 5.77 | 16.3 | 5.77 | 16.3 | 5.77 | 16.2 | 5.77 | 16.2 | 5.77 | 14.8 | 5.21 |
| | 0.0 | -0.7 | 17.3 | 5.77 | 17.3 | 5.77 | 17.3 | 5.77 | 16.9 | 5.67 | 16.2 | 5.39 | 14.8 | 4.85 |
| | 3.0 | 2.2 | 18.3 | 5.77 | 18.2 | 5.77 | 17.5 | 5.56 | 16.9 | 5.30 | 16.2 | 5.04 | 14.8 | 4.54 |
| | 5.0 | 4.1 | 18.9 | 5.77 | 18.9 | 5.77 | 17.6 | 5.33 | 16.9 | 5.08 | 16.2 | 4.84 | 14.8 | 4.36 |
| | 7.0 | 6.0 | 19.5 | 5.77 | 18.9 | 5.61 | 17.6 | 5.12 | 16.9 | 4.88 | 16.2 | 4.65 | 14.8 | 4.20 |
| | 9.0 | 7.9 | 20.2 | 5.77 | 18.9 | 5.39 | 17.6 | 4.93 | 16.9 | 4.70 | 16.2 | 4.48 | 14.8 | 4.05 |
| | 11.0 | 9.8 | 20.3 | 5.65 | 19.0 | 5.19 | 17.6 | 4.75 | 16.9 | 4.53 | 16.2 | 4.32 | 14.8 | 3.90 |
| | 13.0 | 11.8 | 20.3 | 5.43 | 19.0 | 4.99 | 17.6 | 4.57 | 16.9 | 4.37 | 16.2 | 4.16 | 14.8 | 3.77 |
| | 15.0 | 13.7 | 20.3 | 5.24 | 19.0 | 4.82 | 17.6 | 4.42 | 16.9 | 4.22 | 16.2 | 4.03 | 14.8 | 3.65 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

13

**Heating capacity**

| Combination (%) (Capacity index) | Outdoor air temp. | | Indoor air temp. °CDB | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | | 18.0 | | 20.0 | | 21.0 | | 22.0 | | 24.0 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °CDB | °CWB | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 100 (125) | -14.7 | -15.0 | 12.6 | 5.77 | 12.5 | 5.77 | 12.5 | 5.77 | 12.5 | 5.77 | 12.5 | 5.77 | 12.4 | 5.77 |
| | -12.6 | -13.0 | 13.2 | 5.77 | 13.2 | 5.77 | 13.2 | 5.77 | 13.1 | 5.77 | 13.1 | 5.77 | 13.1 | 5.77 |
| | -10.5 | -11.0 | 13.9 | 5.77 | 13.8 | 5.77 | 13.8 | 5.77 | 13.8 | 5.77 | 13.8 | 5.77 | 13.4 | 5.67 |
| | -9.5 | -10.0 | 14.2 | 5.77 | 14.2 | 5.77 | 14.1 | 5.77 | 14.1 | 5.77 | 14.1 | 5.77 | 13.4 | 5.51 |
| | -8.5 | -9.1 | 14.5 | 5.77 | 14.5 | 5.77 | 14.4 | 5.77 | 14.4 | 5.77 | 14.4 | 5.77 | 13.4 | 5.37 |
| | -7.0 | -7.6 | 15.0 | 5.77 | 15.0 | 5.77 | 14.9 | 5.77 | 14.9 | 5.77 | 14.7 | 5.73 | 13.5 | 5.15 |
| | -5.0 | -5.6 | 15.7 | 5.77 | 15.6 | 5.77 | 15.6 | 5.77 | 15.3 | 5.71 | 14.7 | 5.43 | 13.5 | 4.88 |
| | -3.0 | -3.7 | 16.3 | 5.77 | 16.3 | 5.77 | 15.9 | 5.71 | 15.3 | 5.44 | 14.7 | 5.17 | 13.5 | 4.66 |
| | 0.0 | -0.7 | 17.3 | 5.77 | 17.2 | 5.77 | 16.0 | 5.30 | 15.3 | 5.06 | 14.7 | 4.81 | 13.5 | 4.34 |
| | 3.0 | 2.2 | 18.2 | 5.77 | 17.2 | 5.43 | 16.0 | 4.96 | 15.4 | 4.73 | 14.7 | 4.51 | 13.5 | 4.07 |
| | 5.0 | 4.1 | 18.5 | 5.67 | 17.2 | 5.21 | 16.0 | 4.76 | 15.4 | 4.55 | 14.7 | 4.33 | 13.5 | 3.92 |
| | 7.0 | 6.0 | 18.5 | 5.44 | 17.2 | 5.00 | 16.0 | 4.58 | 15.4 | 4.37 | 14.7 | 4.17 | 13.5 | 3.77 |
| | 9.0 | 7.9 | 18.5 | 5.23 | 17.3 | 4.81 | 16.0 | 4.41 | 15.4 | 4.21 | 14.7 | 4.02 | 13.5 | 3.64 |
| | 11.0 | 9.8 | 18.5 | 5.04 | 17.3 | 4.64 | 16.0 | 4.25 | 15.4 | 4.06 | 14.7 | 3.88 | 13.5 | 3.52 |
| | 13.0 | 11.8 | 18.5 | 4.85 | 17.3 | 4.47 | 16.0 | 4.10 | 15.4 | 3.92 | 14.7 | 3.74 | 13.5 | 3.40 |
| | 15.0 | 13.7 | 18.5 | 4.68 | 17.3 | 4.32 | 16.0 | 3.97 | 15.4 | 3.79 | 14.7 | 3.62 | 13.5 | 3.29 |
| 90 (112.5) | -14.7 | -15.0 | 12.5 | 5.77 | 12.5 | 5.77 | 12.5 | 5.77 | 12.4 | 5.77 | 12.4 | 5.77 | 12.09 | 5.66 |
| | -12.6 | -13.0 | 13.2 | 5.77 | 13.1 | 5.77 | 13.1 | 5.77 | 13.1 | 5.77 | 13.1 | 5.77 | 12.11 | 5.31 |
| | -10.5 | -11.0 | 13.8 | 5.77 | 13.8 | 5.77 | 13.8 | 5.77 | 13.8 | 5.77 | 13.2 | 5.56 | 12.12 | 5.00 |
| | -9.5 | -10.0 | 14.2 | 5.77 | 14.1 | 5.77 | 14.1 | 5.77 | 13.8 | 5.68 | 13.2 | 5.40 | 12.13 | 4.86 |
| | -8.5 | -9.1 | 14.5 | 5.77 | 14.4 | 5.77 | 14.3 | 5.77 | 13.8 | 5.54 | 13.2 | 5.27 | 12.13 | 4.74 |
| | -7.0 | -7.6 | 15.0 | 5.77 | 14.9 | 5.77 | 14.4 | 5.57 | 13.8 | 5.31 | 13.2 | 5.05 | 12.13 | 4.55 |
| | -5.0 | -5.6 | 15.6 | 5.77 | 15.5 | 5.77 | 14.4 | 5.28 | 13.8 | 5.03 | 13.3 | 4.79 | 12.13 | 4.32 |
| | -3.0 | -3.7 | 16.2 | 5.77 | 15.5 | 5.51 | 14.4 | 5.03 | 13.8 | 4.80 | 13.3 | 4.57 | 12.13 | 4.13 |
| | 0.0 | -0.7 | 16.6 | 5.57 | 15.5 | 5.12 | 14.4 | 4.68 | 13.8 | 4.47 | 13.3 | 4.26 | 12.13 | 3.86 |
| | 3.0 | 2.2 | 16.6 | 5.21 | 15.5 | 4.79 | 14.4 | 4.39 | 13.8 | 4.20 | 13.3 | 4.00 | 12.13 | 3.63 |
| | 5.0 | 4.1 | 16.6 | 5.00 | 15.5 | 4.60 | 14.4 | 4.22 | 13.8 | 4.03 | 13.3 | 3.85 | 12.13 | 3.49 |
| | 7.0 | 6.0 | 16.7 | 4.80 | 15.5 | 4.43 | 14.4 | 4.06 | 13.8 | 3.88 | 13.3 | 3.71 | 12.13 | 3.37 |
| | 9.0 | 7.9 | 16.7 | 4.62 | 15.5 | 4.26 | 14.4 | 3.92 | 13.8 | 3.75 | 13.3 | 3.58 | 12.13 | 3.25 |
| | 11.0 | 9.8 | 16.7 | 4.46 | 15.5 | 4.11 | 14.4 | 3.78 | 13.8 | 3.62 | 13.3 | 3.46 | 12.13 | 3.14 |
| | 13.0 | 11.8 | 16.7 | 4.30 | 15.5 | 3.97 | 14.4 | 3.65 | 13.8 | 3.49 | 13.3 | 3.34 | 12.13 | 3.04 |
| | 15.0 | 13.7 | 16.7 | 4.15 | 15.5 | 3.84 | 14.4 | 3.53 | 13.8 | 3.38 | 13.3 | 3.23 | 12.13 | 2.94 |
| 80 (100) | -14.7 | -15.0 | 12.5 | 5.77 | 12.4 | 5.77 | 12.4 | 5.77 | 12.3 | 5.76 | 11.8 | 5.47 | 10.8 | 4.92 |
| | -12.6 | -13.0 | 13.1 | 5.77 | 13.1 | 5.77 | 12.8 | 5.66 | 12.3 | 5.40 | 11.8 | 5.14 | 10.8 | 4.63 |
| | -10.5 | -11.0 | 13.8 | 5.77 | 13.8 | 5.77 | 12.8 | 5.33 | 12.3 | 5.08 | 11.8 | 4.84 | 10.8 | 4.36 |
| | -9.5 | -10.0 | 14.1 | 5.77 | 13.8 | 5.67 | 12.8 | 5.18 | 12.3 | 4.94 | 11.8 | 4.70 | 10.8 | 4.24 |
| | -8.5 | -9.1 | 14.4 | 5.77 | 13.8 | 5.52 | 12.8 | 5.05 | 12.3 | 4.81 | 11.8 | 4.59 | 10.8 | 4.14 |
| | -7.0 | -7.6 | 14.8 | 5.77 | 13.8 | 5.30 | 12.8 | 4.84 | 12.3 | 4.62 | 11.8 | 4.41 | 10.8 | 3.98 |
| | -5.0 | -5.6 | 14.8 | 5.46 | 13.8 | 5.02 | 12.8 | 4.60 | 12.3 | 4.39 | 11.8 | 4.19 | 10.8 | 3.79 |
| | -3.0 | -3.7 | 14.8 | 5.20 | 13.8 | 4.79 | 12.8 | 4.39 | 12.3 | 4.19 | 11.8 | 4.00 | 10.8 | 3.62 |
| | 0.0 | -0.7 | 14.8 | 4.84 | 13.8 | 4.46 | 12.8 | 4.09 | 12.3 | 3.91 | 11.8 | 3.74 | 10.8 | 3.39 |
| | 3.0 | 2.2 | 14.8 | 4.54 | 13.8 | 4.19 | 12.8 | 3.85 | 12.3 | 3.68 | 11.8 | 3.52 | 10.8 | 3.19 |
| | 5.0 | 4.1 | 14.8 | 4.36 | 13.8 | 4.02 | 12.8 | 3.70 | 12.3 | 3.54 | 11.8 | 3.38 | 10.8 | 3.08 |
| | 7.0 | 6.0 | 14.8 | 4.19 | 13.8 | 3.88 | 12.8 | 3.57 | 12.3 | 3.41 | 11.8 | 3.26 | 10.8 | 2.97 |
| | 9.0 | 7.9 | 14.8 | 4.04 | 13.8 | 3.74 | 12.8 | 3.44 | 12.3 | 3.30 | 11.8 | 3.15 | 10.8 | 2.87 |
| | 11.0 | 9.8 | 14.8 | 3.90 | 13.8 | 3.61 | 12.8 | 3.33 | 12.3 | 3.19 | 11.8 | 3.05 | 10.8 | 2.78 |
| | 13.0 | 11.8 | 14.8 | 3.76 | 13.8 | 3.48 | 12.8 | 3.21 | 12.3 | 3.08 | 11.8 | 2.95 | 10.8 | 2.69 |
| | 15.0 | 13.7 | 14.8 | 3.64 | 13.8 | 3.37 | 12.8 | 3.11 | 12.3 | 2.99 | 11.8 | 2.86 | 10.8 | 2.61 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

Heating capacity

| Combination (%) (Capacity index) | Outdoor air temp. | | Indoor air temp. °CDB | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | | 18.0 | | 20.0 | | 21.0 | | 22.0 | | 24.0 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °CDB | °CWB | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 70 (87.5) | -14.7 | -15.0 | 12.4 | 5.77 | 12.0 | 5.64 | 11.2 | 5.15 | 10.8 | 4.91 | 10.3 | 4.68 | 9.44 | 4.22 |
| | -12.6 | -13.0 | 12.9 | 5.75 | 12.1 | 5.29 | 11.2 | 4.83 | 10.8 | 4.61 | 10.3 | 4.40 | 9.44 | 3.97 |
| | -10.5 | -11.0 | 12.9 | 5.41 | 12.1 | 4.98 | 11.2 | 4.56 | 10.8 | 4.35 | 10.3 | 4.15 | 9.44 | 3.76 |
| | -9.5 | -10.0 | 12.9 | 5.26 | 12.1 | 4.84 | 11.2 | 4.43 | 10.8 | 4.23 | 10.3 | 4.04 | 9.44 | 3.66 |
| | -8.5 | -9.1 | 12.9 | 5.12 | 12.1 | 4.72 | 11.2 | 4.32 | 10.8 | 4.13 | 10.3 | 3.94 | 9.44 | 3.57 |
| | -7.0 | -7.6 | 13.0 | 4.92 | 12.1 | 4.53 | 11.2 | 4.15 | 10.8 | 3.97 | 10.3 | 3.79 | 9.44 | 3.44 |
| | -5.0 | -5.6 | 13.0 | 4.67 | 12.1 | 4.30 | 11.2 | 3.95 | 10.8 | 3.78 | 10.3 | 3.61 | 9.44 | 3.28 |
| | -3.0 | -3.7 | 13.0 | 4.45 | 12.1 | 4.11 | 11.2 | 3.78 | 10.8 | 3.61 | 10.3 | 3.45 | 9.44 | 3.14 |
| | 0.0 | -0.7 | 13.0 | 4.15 | 12.1 | 3.84 | 11.2 | 3.53 | 10.8 | 3.38 | 10.3 | 3.23 | 9.44 | 2.95 |
| | 3.0 | 2.2 | 13.0 | 3.90 | 12.1 | 3.61 | 11.2 | 3.33 | 10.8 | 3.19 | 10.3 | 3.05 | 9.44 | 2.78 |
| | 5.0 | 4.1 | 13.0 | 3.75 | 12.1 | 3.47 | 11.2 | 3.20 | 10.8 | 3.07 | 10.3 | 2.94 | 9.44 | 2.68 |
| | 7.0 | 6.0 | 13.0 | 3.62 | 12.1 | 3.35 | 11.2 | 3.09 | 10.8 | 2.96 | 10.3 | 2.84 | 9.44 | 2.59 |
| | 9.0 | 7.9 | 13.0 | 3.49 | 12.1 | 3.24 | 11.2 | 2.99 | 10.8 | 2.87 | 10.3 | 2.75 | 9.44 | 2.51 |
| | 11.0 | 9.8 | 13.0 | 3.37 | 12.1 | 3.13 | 11.2 | 2.89 | 10.8 | 2.77 | 10.3 | 2.66 | 9.44 | 2.43 |
| | 13.0 | 11.8 | 13.0 | 3.26 | 12.1 | 3.02 | 11.2 | 2.80 | 10.8 | 2.69 | 10.3 | 2.57 | 9.44 | 2.36 |
| | 15.0 | 13.7 | 13.0 | 3.16 | 12.1 | 2.93 | 11.2 | 2.71 | 10.8 | 2.61 | 10.3 | 2.50 | 9.44 | 2.29 |
| 60 (75) | -14.7 | -15.0 | 11.1 | 5.10 | 10.4 | 4.70 | 9.60 | 4.30 | 9.22 | 4.11 | 8.84 | 3.92 | 8.09 | 3.56 |
| | -12.6 | -13.0 | 11.1 | 4.79 | 10.4 | 4.41 | 9.60 | 4.05 | 9.22 | 3.87 | 8.84 | 3.70 | 8.09 | 3.36 |
| | -10.5 | -11.0 | 11.1 | 4.52 | 10.4 | 4.17 | 9.60 | 3.83 | 9.22 | 3.66 | 8.84 | 3.50 | 8.09 | 3.18 |
| | -9.5 | -10.0 | 11.1 | 4.39 | 10.4 | 4.05 | 9.60 | 3.73 | 9.22 | 3.57 | 8.84 | 3.41 | 8.09 | 3.10 |
| | -8.5 | -9.1 | 11.1 | 4.28 | 10.4 | 3.96 | 9.60 | 3.64 | 9.22 | 3.48 | 8.84 | 3.33 | 8.09 | 3.03 |
| | -7.0 | -7.6 | 11.1 | 4.12 | 10.4 | 3.81 | 9.60 | 3.50 | 9.22 | 3.36 | 8.84 | 3.21 | 8.09 | 2.92 |
| | -5.0 | -5.6 | 11.1 | 3.92 | 10.4 | 3.62 | 9.60 | 3.34 | 9.22 | 3.20 | 8.84 | 3.06 | 8.09 | 2.79 |
| | -3.0 | -3.7 | 11.1 | 3.74 | 10.4 | 3.47 | 9.60 | 3.20 | 9.22 | 3.07 | 8.84 | 2.93 | 8.09 | 2.68 |
| | 0.0 | -0.7 | 11.1 | 3.50 | 10.4 | 3.25 | 9.60 | 3.00 | 9.22 | 2.88 | 8.84 | 2.76 | 8.09 | 2.52 |
| | 3.0 | 2.2 | 11.1 | 3.30 | 10.4 | 3.06 | 9.60 | 2.83 | 9.22 | 2.72 | 8.84 | 2.61 | 8.09 | 2.39 |
| | 5.0 | 4.1 | 11.1 | 3.18 | 10.4 | 2.95 | 9.60 | 2.73 | 9.22 | 2.62 | 8.84 | 2.52 | 8.09 | 2.31 |
| | 7.0 | 6.0 | 11.1 | 3.07 | 10.4 | 2.85 | 9.60 | 2.64 | 9.22 | 2.54 | 8.84 | 2.43 | 8.09 | 2.23 |
| | 9.0 | 7.9 | 11.1 | 2.96 | 10.4 | 2.76 | 9.60 | 2.55 | 9.22 | 2.46 | 8.84 | 2.36 | 8.09 | 2.16 |
| | 11.0 | 9.8 | 11.1 | 2.87 | 10.4 | 2.67 | 9.60 | 2.48 | 9.22 | 2.38 | 8.84 | 2.29 | 8.09 | 2.10 |
| | 13.0 | 11.8 | 11.1 | 2.77 | 10.4 | 2.58 | 9.60 | 2.40 | 9.22 | 2.31 | 8.84 | 2.22 | 8.09 | 2.04 |
| | 15.0 | 13.7 | 11.1 | 2.69 | 10.4 | 2.51 | 9.60 | 2.33 | 9.22 | 2.24 | 8.84 | 2.15 | 8.09 | 1.98 |
| 50 (62.5) | -14.7 | -15.0 | 9.26 | 4.13 | 8.63 | 3.82 | 8.00 | 3.51 | 7.69 | 3.37 | 7.37 | 3.22 | 6.74 | 2.93 |
| | -12.6 | -13.0 | 9.26 | 3.89 | 8.63 | 3.60 | 8.00 | 3.32 | 7.69 | 3.18 | 7.37 | 3.04 | 6.74 | 2.78 |
| | -10.5 | -11.0 | 9.26 | 3.68 | 8.63 | 3.41 | 8.00 | 3.14 | 7.69 | 3.01 | 7.37 | 2.89 | 6.74 | 2.64 |
| | -9.5 | -10.0 | 9.26 | 3.58 | 8.63 | 3.32 | 8.00 | 3.06 | 7.69 | 2.94 | 7.37 | 2.82 | 6.74 | 2.57 |
| | -8.5 | -9.1 | 9.26 | 3.50 | 8.63 | 3.24 | 8.00 | 3.00 | 7.69 | 2.87 | 7.37 | 2.75 | 6.74 | 2.52 |
| | -7.0 | -7.6 | 9.26 | 3.37 | 8.63 | 3.13 | 8.00 | 2.89 | 7.69 | 2.77 | 7.37 | 2.66 | 6.74 | 2.43 |
| | -5.0 | -5.6 | 9.26 | 3.21 | 8.63 | 2.98 | 8.00 | 2.76 | 7.69 | 2.65 | 7.37 | 2.54 | 6.74 | 2.33 |
| | -3.0 | -3.7 | 9.26 | 3.08 | 8.63 | 2.86 | 8.00 | 2.65 | 7.69 | 2.55 | 7.37 | 2.44 | 6.74 | 2.24 |
| | 0.0 | -0.7 | 9.26 | 2.89 | 8.63 | 2.69 | 8.00 | 2.49 | 7.69 | 2.40 | 7.37 | 2.30 | 6.74 | 2.12 |
| | 3.0 | 2.2 | 9.26 | 2.73 | 8.63 | 2.54 | 8.00 | 2.36 | 7.69 | 2.27 | 7.37 | 2.18 | 6.74 | 2.01 |
| | 5.0 | 4.1 | 9.26 | 2.63 | 8.63 | 2.46 | 8.00 | 2.28 | 7.69 | 2.20 | 7.37 | 2.11 | 6.74 | 1.95 |
| | 7.0 | 6.0 | 9.26 | 2.55 | 8.63 | 2.38 | 8.00 | 2.21 | 7.69 | 2.13 | 7.37 | 2.05 | 6.74 | 1.89 |
| | 9.0 | 7.9 | 9.26 | 2.47 | 8.63 | 2.30 | 8.00 | 2.14 | 7.69 | 2.06 | 7.37 | 1.99 | 6.74 | 1.83 |
| | 11.0 | 9.8 | 9.26 | 2.39 | 8.63 | 2.23 | 8.00 | 2.08 | 7.69 | 2.00 | 7.37 | 1.93 | 6.74 | 1.78 |
| | 13.0 | 11.8 | 9.26 | 2.32 | 8.63 | 2.17 | 8.00 | 2.02 | 7.69 | 1.95 | 7.37 | 1.87 | 6.74 | 1.73 |
| | 15.0 | 13.7 | 9.26 | 2.25 | 8.63 | 2.11 | 8.00 | 1.96 | 7.69 | 1.89 | 7.37 | 1.82 | 6.74 | 1.69 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

13

## RXYM6MVM(T)

**Heating capacity**

| Combination (%) (Capacity index) | Outdoor air temp. | | Indoor air temp. °CDB | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | | 18.0 | | 20.0 | | 21.0 | | 22.0 | | 24.0 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °CDB | °CWB | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 130 (182) | -14.7 | -15.0 | 15.6 | 5.86 | 15.1 | 5.86 | 14.7 | 5.86 | 14.5 | 5.86 | 14.3 | 5.86 | 13.8 | 5.86 |
| | -12.6 | -13.0 | 16.1 | 5.86 | 15.6 | 5.86 | 15.2 | 5.86 | 15.0 | 5.86 | 14.8 | 5.86 | 14.3 | 5.86 |
| | -10.5 | -11.0 | 16.6 | 5.86 | 16.1 | 5.86 | 15.7 | 5.86 | 15.5 | 5.86 | 15.3 | 5.86 | 14.8 | 5.86 |
| | -9.5 | -10.0 | 16.8 | 5.86 | 16.4 | 5.86 | 16.0 | 5.86 | 15.7 | 5.86 | 15.5 | 5.86 | 15.1 | 5.86 |
| | -8.5 | -9.1 | 17.1 | 5.86 | 16.6 | 5.86 | 16.2 | 5.86 | 16.0 | 5.86 | 15.8 | 5.86 | 15.3 | 5.86 |
| | -7.0 | -7.6 | 17.4 | 5.86 | 17.0 | 5.86 | 16.6 | 5.86 | 16.4 | 5.86 | 16.1 | 5.86 | 15.7 | 5.86 |
| | -5.0 | -5.6 | 17.9 | 5.86 | 17.5 | 5.86 | 17.1 | 5.86 | 16.9 | 5.86 | 16.6 | 5.86 | 16.2 | 5.86 |
| | -3.0 | -3.7 | 18.4 | 5.86 | 18.0 | 5.86 | 17.5 | 5.86 | 17.3 | 5.86 | 17.1 | 5.86 | 16.7 | 5.86 |
| | 0.0 | -0.7 | 19.2 | 5.86 | 18.7 | 5.86 | 18.3 | 5.86 | 18.1 | 5.86 | 17.9 | 5.86 | 17.4 | 5.86 |
| | 3.0 | 2.2 | 19.9 | 5.86 | 19.5 | 5.86 | 19.0 | 5.86 | 18.8 | 5.86 | 18.6 | 5.86 | 18.2 | 5.86 |
| | 5.0 | 4.1 | 20.4 | 5.86 | 19.9 | 5.86 | 19.5 | 5.86 | 19.3 | 5.86 | 19.1 | 5.86 | 18.6 | 5.86 |
| | 7.0 | 6.0 | 20.8 | 5.86 | 20.4 | 5.86 | 20.0 | 5.86 | 19.8 | 5.86 | 19.5 | 5.86 | 19.1 | 5.86 |
| | 9.0 | 7.9 | 21.3 | 5.86 | 20.9 | 5.86 | 20.5 | 5.86 | 20.2 | 5.86 | 20.0 | 5.86 | 19.6 | 5.86 |
| | 11.0 | 9.8 | 21.8 | 5.86 | 21.4 | 5.86 | 20.9 | 5.86 | 20.7 | 5.86 | 20.5 | 5.86 | 19.7 | 5.69 |
| | 13.0 | 11.8 | 22.3 | 5.86 | 21.9 | 5.86 | 21.4 | 5.86 | 21.2 | 5.86 | 21.0 | 5.86 | 19.7 | 5.48 |
| | 15.0 | 13.7 | 22.8 | 5.86 | 22.3 | 5.86 | 21.9 | 5.86 | 21.7 | 5.86 | 21.5 | 5.86 | 19.7 | 5.30 |
| 120 (168) | -14.7 | -15.0 | 15.1 | 5.86 | 14.7 | 5.86 | 14.3 | 5.86 | 14.1 | 5.86 | 13.9 | 5.86 | 13.5 | 5.86 |
| | -12.6 | -13.0 | 15.6 | 5.86 | 15.2 | 5.86 | 14.8 | 5.86 | 14.6 | 5.86 | 14.4 | 5.86 | 14.0 | 5.86 |
| | -10.5 | -11.0 | 16.1 | 5.86 | 15.7 | 5.86 | 15.3 | 5.86 | 15.1 | 5.86 | 14.9 | 5.86 | 14.5 | 5.86 |
| | -9.5 | -10.0 | 16.3 | 5.86 | 15.9 | 5.86 | 15.5 | 5.86 | 15.3 | 5.86 | 15.1 | 5.86 | 14.7 | 5.86 |
| | -8.5 | -9.1 | 16.6 | 5.86 | 16.2 | 5.86 | 15.8 | 5.86 | 15.6 | 5.86 | 15.4 | 5.86 | 15.0 | 5.86 |
| | -7.0 | -7.6 | 16.9 | 5.86 | 16.5 | 5.86 | 16.1 | 5.86 | 15.9 | 5.86 | 15.7 | 5.86 | 15.3 | 5.86 |
| | -5.0 | -5.6 | 17.4 | 5.86 | 17.0 | 5.86 | 16.6 | 5.86 | 16.4 | 5.86 | 16.2 | 5.86 | 15.8 | 5.86 |
| | -3.0 | -3.7 | 17.9 | 5.86 | 17.5 | 5.86 | 17.1 | 5.86 | 16.9 | 5.86 | 16.7 | 5.86 | 16.3 | 5.86 |
| | 0.0 | -0.7 | 18.7 | 5.86 | 18.3 | 5.86 | 17.9 | 5.86 | 17.7 | 5.86 | 17.5 | 5.86 | 17.1 | 5.86 |
| | 3.0 | 2.2 | 19.4 | 5.86 | 19.0 | 5.86 | 18.6 | 5.86 | 18.4 | 5.86 | 18.2 | 5.86 | 17.8 | 5.86 |
| | 5.0 | 4.1 | 19.9 | 5.86 | 19.5 | 5.86 | 19.1 | 5.86 | 18.9 | 5.86 | 18.7 | 5.86 | 18.2 | 5.82 |
| | 7.0 | 6.0 | 20.4 | 5.86 | 20.0 | 5.86 | 19.6 | 5.86 | 19.4 | 5.86 | 19.2 | 5.86 | 18.2 | 5.59 |
| | 9.0 | 7.9 | 20.8 | 5.86 | 20.4 | 5.86 | 20.0 | 5.86 | 19.8 | 5.86 | 19.6 | 5.86 | 18.2 | 5.38 |
| | 11.0 | 9.8 | 21.3 | 5.86 | 20.9 | 5.86 | 20.5 | 5.86 | 20.3 | 5.86 | 19.9 | 5.75 | 18.2 | 5.19 |
| | 13.0 | 11.8 | 21.8 | 5.86 | 21.4 | 5.86 | 21.0 | 5.86 | 20.7 | 5.82 | 19.9 | 5.54 | 18.2 | 5.00 |
| | 15.0 | 13.7 | 22.3 | 5.86 | 21.9 | 5.86 | 21.5 | 5.86 | 20.7 | 5.62 | 19.9 | 5.35 | 18.2 | 4.84 |
| 110 (154) | -14.7 | -15.0 | 14.6 | 5.86 | 14.2 | 5.86 | 13.9 | 5.86 | 13.7 | 5.86 | 13.5 | 5.86 | 13.1 | 5.86 |
| | -12.6 | -13.0 | 15.1 | 5.86 | 14.7 | 5.86 | 14.4 | 5.86 | 14.2 | 5.86 | 14.0 | 5.86 | 13.6 | 5.86 |
| | -10.5 | -11.0 | 15.6 | 5.86 | 15.2 | 5.86 | 14.9 | 5.86 | 14.7 | 5.86 | 14.5 | 5.86 | 14.1 | 5.86 |
| | -9.5 | -10.0 | 15.9 | 5.86 | 15.5 | 5.86 | 15.1 | 5.86 | 14.9 | 5.86 | 14.8 | 5.86 | 14.4 | 5.86 |
| | -8.5 | -9.1 | 16.1 | 5.86 | 15.7 | 5.86 | 15.3 | 5.86 | 15.2 | 5.86 | 15.0 | 5.86 | 14.6 | 5.86 |
| | -7.0 | -7.6 | 16.5 | 5.86 | 16.1 | 5.86 | 15.7 | 5.86 | 15.5 | 5.86 | 15.4 | 5.86 | 15.0 | 5.86 |
| | -5.0 | -5.6 | 17.0 | 5.86 | 16.6 | 5.86 | 16.2 | 5.86 | 16.0 | 5.86 | 15.9 | 5.86 | 15.5 | 5.86 |
| | -3.0 | -3.7 | 17.4 | 5.86 | 17.1 | 5.86 | 16.7 | 5.86 | 16.5 | 5.86 | 16.3 | 5.86 | 16.0 | 5.86 |
| | 0.0 | -0.7 | 18.2 | 5.86 | 17.8 | 5.86 | 17.5 | 5.86 | 17.3 | 5.86 | 17.1 | 5.86 | 16.7 | 5.84 |
| | 3.0 | 2.2 | 18.9 | 5.86 | 18.5 | 5.86 | 18.2 | 5.86 | 18.0 | 5.86 | 17.8 | 5.86 | 16.7 | 5.47 |
| | 5.0 | 4.1 | 19.4 | 5.86 | 19.0 | 5.86 | 18.7 | 5.86 | 18.5 | 5.86 | 18.2 | 5.83 | 16.7 | 5.26 |
| | 7.0 | 6.0 | 19.9 | 5.86 | 19.5 | 5.86 | 19.1 | 5.86 | 19.0 | 5.86 | 18.2 | 5.61 | 16.7 | 5.06 |
| | 9.0 | 7.9 | 20.3 | 5.86 | 20.0 | 5.86 | 19.6 | 5.86 | 19.0 | 5.67 | 18.2 | 5.40 | 16.7 | 4.88 |
| | 11.0 | 9.8 | 20.8 | 5.86 | 20.5 | 5.86 | 19.8 | 5.72 | 19.0 | 5.46 | 18.2 | 5.20 | 16.7 | 4.71 |
| | 13.0 | 11.8 | 21.3 | 5.86 | 21.0 | 5.86 | 19.8 | 5.51 | 19.0 | 5.26 | 18.2 | 5.02 | 16.7 | 4.54 |
| | 15.0 | 13.7 | 21.8 | 5.86 | 21.3 | 5.81 | 19.8 | 5.32 | 19.0 | 5.09 | 18.2 | 4.85 | 16.7 | 4.39 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

**Heating capacity**

| Combination (%) (Capacity index) | Outdoor air temp. | | Indoor air temp. °CDB | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | | 18.0 | | 20.0 | | 21.0 | | 22.0 | | 24.0 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °CDB | °CWB | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 100 (140) | -14.7 | -15.0 | 14.1 | 5.86 | 13.8 | 5.86 | 13.4 | 5.86 | 13.3 | 5.86 | 13.1 | 5.86 | 12.8 | 5.86 |
| | -12.6 | -13.0 | 14.6 | 5.86 | 14.3 | 5.86 | 13.9 | 5.86 | 13.8 | 5.86 | 13.6 | 5.86 | 13.3 | 5.86 |
| | -10.5 | -11.0 | 15.1 | 5.86 | 14.8 | 5.86 | 14.4 | 5.86 | 14.3 | 5.86 | 14.1 | 5.86 | 13.8 | 5.86 |
| | -9.5 | -10.0 | 15.4 | 5.86 | 15.0 | 5.86 | 14.7 | 5.86 | 14.5 | 5.86 | 14.4 | 5.86 | 14.0 | 5.86 |
| | -8.5 | -9.1 | 15.6 | 5.86 | 15.3 | 5.86 | 14.9 | 5.86 | 14.8 | 5.86 | 14.6 | 5.86 | 14.3 | 5.86 |
| | -7.0 | -7.6 | 16.0 | 5.86 | 15.6 | 5.86 | 15.3 | 5.86 | 15.1 | 5.86 | 15.0 | 5.86 | 14.6 | 5.86 |
| | -5.0 | -5.6 | 16.5 | 5.86 | 16.1 | 5.86 | 15.8 | 5.86 | 15.6 | 5.86 | 15.5 | 5.86 | 15.1 | 5.86 |
| | -3.0 | -3.7 | 16.9 | 5.86 | 16.6 | 5.86 | 16.3 | 5.86 | 16.1 | 5.86 | 15.9 | 5.86 | 15.2 | 5.61 |
| | 0.0 | -0.7 | 17.7 | 5.86 | 17.4 | 5.86 | 17.0 | 5.86 | 16.9 | 5.86 | 16.6 | 5.80 | 15.2 | 5.23 |
| | 3.0 | 2.2 | 18.4 | 5.86 | 18.1 | 5.86 | 17.8 | 5.86 | 17.3 | 5.71 | 16.6 | 5.44 | 15.2 | 4.91 |
| | 5.0 | 4.1 | 18.9 | 5.86 | 18.6 | 5.86 | 18.0 | 5.74 | 17.3 | 5.48 | 16.6 | 5.22 | 15.2 | 4.72 |
| | 7.0 | 6.0 | 19.4 | 5.86 | 19.0 | 5.86 | 18.0 | 5.52 | 17.3 | 5.27 | 16.6 | 5.03 | 15.2 | 4.55 |
| | 9.0 | 7.9 | 19.9 | 5.86 | 19.4 | 5.80 | 18.0 | 5.32 | 17.3 | 5.08 | 16.6 | 4.84 | 15.2 | 4.39 |
| | 11.0 | 9.8 | 20.3 | 5.86 | 19.4 | 5.59 | 18.0 | 5.13 | 17.3 | 4.90 | 16.6 | 4.68 | 15.2 | 4.24 |
| | 13.0 | 11.8 | 20.8 | 5.85 | 19.4 | 5.39 | 18.0 | 4.94 | 17.3 | 4.72 | 16.6 | 4.51 | 15.2 | 4.09 |
| | 15.0 | 13.7 | 20.8 | 5.65 | 19.4 | 5.21 | 18.0 | 4.78 | 17.3 | 4.57 | 16.6 | 4.37 | 15.2 | 3.96 |
| 90 (126) | -14.7 | -15.0 | 13.6 | 5.86 | 13.3 | 5.86 | 13.0 | 5.86 | 12.9 | 5.86 | 12.7 | 5.86 | 12.42 | 5.86 |
| | -12.6 | -13.0 | 14.1 | 5.86 | 13.8 | 5.86 | 13.5 | 5.86 | 13.4 | 5.86 | 13.2 | 5.86 | 12.92 | 5.86 |
| | -10.5 | -11.0 | 14.6 | 5.86 | 14.3 | 5.86 | 14.0 | 5.86 | 13.9 | 5.86 | 13.7 | 5.86 | 13.42 | 5.86 |
| | -9.5 | -10.0 | 14.9 | 5.86 | 14.6 | 5.86 | 14.3 | 5.86 | 14.1 | 5.86 | 14.0 | 5.86 | 13.64 | 5.86 |
| | -8.5 | -9.1 | 15.1 | 5.86 | 14.8 | 5.86 | 14.5 | 5.86 | 14.3 | 5.86 | 14.2 | 5.86 | 13.65 | 5.71 |
| | -7.0 | -7.6 | 15.5 | 5.86 | 15.2 | 5.86 | 14.9 | 5.86 | 14.7 | 5.86 | 14.6 | 5.86 | 13.65 | 5.49 |
| | -5.0 | -5.6 | 16.0 | 5.86 | 15.7 | 5.86 | 15.4 | 5.86 | 15.2 | 5.86 | 14.9 | 5.78 | 13.65 | 5.21 |
| | -3.0 | -3.7 | 16.5 | 5.86 | 16.2 | 5.86 | 15.9 | 5.86 | 15.6 | 5.78 | 14.9 | 5.51 | 13.65 | 4.98 |
| | 0.0 | -0.7 | 17.2 | 5.86 | 16.9 | 5.86 | 16.2 | 5.64 | 15.6 | 5.39 | 14.9 | 5.14 | 13.65 | 4.65 |
| | 3.0 | 2.2 | 17.9 | 5.86 | 17.5 | 5.78 | 16.2 | 5.29 | 15.6 | 5.06 | 14.9 | 4.82 | 13.65 | 4.37 |
| | 5.0 | 4.1 | 18.4 | 5.86 | 17.5 | 5.55 | 16.2 | 5.09 | 15.6 | 4.86 | 14.9 | 4.64 | 13.65 | 4.21 |
| | 7.0 | 6.0 | 18.7 | 5.79 | 17.5 | 5.34 | 16.2 | 4.90 | 15.6 | 4.68 | 14.9 | 4.47 | 13.65 | 4.06 |
| | 9.0 | 7.9 | 18.8 | 5.57 | 17.5 | 5.14 | 16.2 | 4.72 | 15.6 | 4.51 | 14.9 | 4.31 | 13.65 | 3.92 |
| | 11.0 | 9.8 | 18.8 | 5.37 | 17.5 | 4.96 | 16.2 | 4.56 | 15.6 | 4.36 | 14.9 | 4.17 | 13.65 | 3.79 |
| | 13.0 | 11.8 | 18.8 | 5.18 | 17.5 | 4.78 | 16.2 | 4.40 | 15.6 | 4.21 | 14.9 | 4.02 | 13.65 | 3.66 |
| | 15.0 | 13.7 | 18.8 | 5.00 | 17.5 | 4.62 | 16.2 | 4.26 | 15.6 | 4.07 | 14.9 | 3.90 | 13.65 | 3.55 |
| 80 (112) | -14.7 | -15.0 | 13.1 | 5.86 | 12.9 | 5.86 | 12.6 | 5.86 | 12.5 | 5.86 | 12.3 | 5.86 | 12.1 | 5.86 |
| | -12.6 | -13.0 | 13.6 | 5.86 | 13.4 | 5.86 | 13.1 | 5.86 | 13.0 | 5.86 | 12.8 | 5.86 | 12.1 | 5.57 |
| | -10.5 | -11.0 | 14.1 | 5.86 | 13.9 | 5.86 | 13.6 | 5.86 | 13.5 | 5.86 | 13.3 | 5.83 | 12.1 | 5.26 |
| | -9.5 | -10.0 | 14.4 | 5.86 | 14.1 | 5.86 | 13.8 | 5.86 | 13.7 | 5.86 | 13.3 | 5.67 | 12.1 | 5.11 |
| | -8.5 | -9.1 | 14.6 | 5.86 | 14.3 | 5.86 | 14.1 | 5.86 | 13.8 | 5.80 | 13.3 | 5.53 | 12.1 | 4.99 |
| | -7.0 | -7.6 | 15.0 | 5.86 | 14.7 | 5.86 | 14.4 | 5.84 | 13.8 | 5.57 | 13.3 | 5.31 | 12.1 | 4.80 |
| | -5.0 | -5.6 | 15.5 | 5.86 | 15.2 | 5.86 | 14.4 | 5.54 | 13.8 | 5.29 | 13.3 | 5.05 | 12.1 | 4.57 |
| | -3.0 | -3.7 | 16.0 | 5.86 | 15.5 | 5.77 | 14.4 | 5.29 | 13.8 | 5.05 | 13.3 | 4.82 | 12.1 | 4.37 |
| | 0.0 | -0.7 | 16.7 | 5.84 | 15.5 | 5.38 | 14.4 | 4.93 | 13.8 | 4.72 | 13.3 | 4.50 | 12.1 | 4.09 |
| | 3.0 | 2.2 | 16.7 | 5.47 | 15.5 | 5.05 | 14.4 | 4.64 | 13.8 | 4.43 | 13.3 | 4.24 | 12.1 | 3.85 |
| | 5.0 | 4.1 | 16.7 | 5.25 | 15.5 | 4.85 | 14.4 | 4.46 | 13.8 | 4.27 | 13.3 | 4.08 | 12.1 | 3.71 |
| | 7.0 | 6.0 | 16.7 | 5.06 | 15.5 | 4.67 | 14.4 | 4.30 | 13.8 | 4.11 | 13.3 | 3.93 | 12.1 | 3.58 |
| | 9.0 | 7.9 | 16.7 | 4.87 | 15.5 | 4.50 | 14.4 | 4.15 | 13.8 | 3.97 | 13.3 | 3.80 | 12.1 | 3.46 |
| | 11.0 | 9.8 | 16.7 | 4.70 | 15.5 | 4.35 | 14.4 | 4.01 | 13.8 | 3.84 | 13.3 | 3.68 | 12.1 | 3.35 |
| | 13.0 | 11.8 | 16.7 | 4.54 | 15.5 | 4.20 | 14.4 | 3.87 | 13.8 | 3.71 | 13.3 | 3.55 | 12.1 | 3.24 |
| | 15.0 | 13.7 | 16.7 | 4.39 | 15.5 | 4.07 | 14.4 | 3.75 | 13.8 | 3.60 | 13.3 | 3.45 | 12.1 | 3.15 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

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**Heating capacity**

| Combination (%) (Capacity index) | Outdoor air temp. | | Indoor air temp. °CDB | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16.0 | | 18.0 | | 20.0 | | 21.0 | | 22.0 | | 24.0 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| | °CDB | °CWB | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW | KW |
| 70 (98) | -14.7 | -15.0 | 12.6 | 5.86 | 12.4 | 5.86 | 12.2 | 5.86 | 12.1 | 5.86 | 11.6 | 5.63 | 10.62 | 5.09 |
| | -12.6 | -13.0 | 13.1 | 5.86 | 12.9 | 5.86 | 12.6 | 5.83 | 12.1 | 5.56 | 11.6 | 5.30 | 10.62 | 4.79 |
| | -10.5 | -11.0 | 13.6 | 5.86 | 13.4 | 5.86 | 12.6 | 5.49 | 12.1 | 5.24 | 11.6 | 5.00 | 10.62 | 4.53 |
| | -9.5 | -10.0 | 13.9 | 5.86 | 13.6 | 5.83 | 12.6 | 5.34 | 12.1 | 5.10 | 11.6 | 4.87 | 10.62 | 4.41 |
| | -8.5 | -9.1 | 14.1 | 5.86 | 13.6 | 5.68 | 12.6 | 5.21 | 12.1 | 4.98 | 11.6 | 4.75 | 10.62 | 4.30 |
| | -7.0 | -7.6 | 14.5 | 5.86 | 13.6 | 5.46 | 12.6 | 5.01 | 12.1 | 4.79 | 11.6 | 4.57 | 10.62 | 4.14 |
| | -5.0 | -5.6 | 14.6 | 5.62 | 13.6 | 5.19 | 12.6 | 4.76 | 12.1 | 4.55 | 11.6 | 4.35 | 10.62 | 3.95 |
| | -3.0 | -3.7 | 14.6 | 5.37 | 13.6 | 4.95 | 12.6 | 4.55 | 12.1 | 4.36 | 11.6 | 4.16 | 10.62 | 3.78 |
| | 0.0 | -0.7 | 14.6 | 5.01 | 13.6 | 4.63 | 12.6 | 4.26 | 12.1 | 4.08 | 11.6 | 3.90 | 10.62 | 3.55 |
| | 3.0 | 2.2 | 14.6 | 4.70 | 13.6 | 4.35 | 12.6 | 4.01 | 12.1 | 3.84 | 11.6 | 3.68 | 10.62 | 3.35 |
| | 5.0 | 4.1 | 14.6 | 4.52 | 13.6 | 4.19 | 12.6 | 3.86 | 12.1 | 3.70 | 11.6 | 3.54 | 10.62 | 3.24 |
| | 7.0 | 6.0 | 14.6 | 4.36 | 13.6 | 4.04 | 12.6 | 3.73 | 12.1 | 3.57 | 11.6 | 3.42 | 10.62 | 3.13 |
| | 9.0 | 7.9 | 14.6 | 4.20 | 13.6 | 3.90 | 12.6 | 3.60 | 12.1 | 3.45 | 11.6 | 3.31 | 10.62 | 3.03 |
| | 11.0 | 9.8 | 14.6 | 4.06 | 13.6 | 3.77 | 12.6 | 3.48 | 12.1 | 3.34 | 11.6 | 3.21 | 10.62 | 2.93 |
| | 13.0 | 11.8 | 14.6 | 3.93 | 13.6 | 3.64 | 12.6 | 3.37 | 12.1 | 3.24 | 11.6 | 3.10 | 10.62 | 2.84 |
| | 15.0 | 13.7 | 14.6 | 3.80 | 13.6 | 3.53 | 12.6 | 3.27 | 12.1 | 3.14 | 11.6 | 3.01 | 10.62 | 2.76 |
| 60 (84) | -14.7 | -15.0 | 12.1 | 5.86 | 11.7 | 5.66 | 10.80 | 5.19 | 10.37 | 4.96 | 9.95 | 4.73 | 9.10 | 4.29 |
| | -12.6 | -13.0 | 12.5 | 5.77 | 11.7 | 5.32 | 10.80 | 4.88 | 10.37 | 4.67 | 9.95 | 4.46 | 9.10 | 4.05 |
| | -10.5 | -11.0 | 12.5 | 5.44 | 11.7 | 5.02 | 10.80 | 4.61 | 10.37 | 4.41 | 9.95 | 4.22 | 9.10 | 3.83 |
| | -9.5 | -10.0 | 12.5 | 5.29 | 11.7 | 4.89 | 10.80 | 4.49 | 10.37 | 4.30 | 9.95 | 4.11 | 9.10 | 3.74 |
| | -8.5 | -9.1 | 12.5 | 5.16 | 11.7 | 4.77 | 10.80 | 4.39 | 10.37 | 4.20 | 9.95 | 4.01 | 9.10 | 3.65 |
| | -7.0 | -7.6 | 12.5 | 4.96 | 11.7 | 4.59 | 10.80 | 4.22 | 10.37 | 4.04 | 9.95 | 3.87 | 9.10 | 3.52 |
| | -5.0 | -5.6 | 12.5 | 4.72 | 11.7 | 4.37 | 10.80 | 4.02 | 10.37 | 3.86 | 9.95 | 3.69 | 9.10 | 3.37 |
| | -3.0 | -3.7 | 12.5 | 4.51 | 11.7 | 4.18 | 10.80 | 3.85 | 10.37 | 3.69 | 9.95 | 3.54 | 9.10 | 3.23 |
| | 0.0 | -0.7 | 12.5 | 4.22 | 11.7 | 3.91 | 10.80 | 3.61 | 10.37 | 3.47 | 9.95 | 3.32 | 9.10 | 3.04 |
| | 3.0 | 2.2 | 12.5 | 3.97 | 11.7 | 3.69 | 10.80 | 3.41 | 10.37 | 3.27 | 9.95 | 3.14 | 9.10 | 2.88 |
| | 5.0 | 4.1 | 12.5 | 3.83 | 11.7 | 3.56 | 10.80 | 3.29 | 10.37 | 3.16 | 9.95 | 3.03 | 9.10 | 2.78 |
| | 7.0 | 6.0 | 12.5 | 3.70 | 11.7 | 3.44 | 10.80 | 3.18 | 10.37 | 3.06 | 9.95 | 2.93 | 9.10 | 2.69 |
| | 9.0 | 7.9 | 12.5 | 3.57 | 11.7 | 3.32 | 10.80 | 3.08 | 10.37 | 2.96 | 9.95 | 2.84 | 9.10 | 2.61 |
| | 11.0 | 9.8 | 12.5 | 3.46 | 11.7 | 3.22 | 10.80 | 2.98 | 10.37 | 2.87 | 9.95 | 2.76 | 9.10 | 2.53 |
| | 13.0 | 11.8 | 12.5 | 3.34 | 11.7 | 3.11 | 10.80 | 2.89 | 10.37 | 2.78 | 9.95 | 2.67 | 9.10 | 2.46 |
| | 15.0 | 13.7 | 12.5 | 3.24 | 11.7 | 3.02 | 10.80 | 2.81 | 10.37 | 2.70 | 9.95 | 2.60 | 9.10 | 2.39 |
| 50 (70) | -14.7 | -15.0 | 10.42 | 4.98 | 9.71 | 4.60 | 9.00 | 4.24 | 8.65 | 4.06 | 8.29 | 3.88 | 7.58 | 3.53 |
| | -12.6 | -13.0 | 10.42 | 4.69 | 9.71 | 4.34 | 9.00 | 4.00 | 8.65 | 3.83 | 8.29 | 3.67 | 7.58 | 3.35 |
| | -10.5 | -11.0 | 10.42 | 4.43 | 9.71 | 4.11 | 9.00 | 3.79 | 8.65 | 3.63 | 8.29 | 3.48 | 7.58 | 3.18 |
| | -9.5 | -10.0 | 10.42 | 4.32 | 9.71 | 4.00 | 9.00 | 3.69 | 8.65 | 3.54 | 8.29 | 3.39 | 7.58 | 3.10 |
| | -8.5 | -9.1 | 10.42 | 4.22 | 9.71 | 3.91 | 9.00 | 3.61 | 8.65 | 3.46 | 8.29 | 3.32 | 7.58 | 3.04 |
| | -7.0 | -7.6 | 10.42 | 4.06 | 9.71 | 3.77 | 9.00 | 3.48 | 8.65 | 3.34 | 8.29 | 3.21 | 7.58 | 2.93 |
| | -5.0 | -5.6 | 10.42 | 3.87 | 9.71 | 3.60 | 9.00 | 3.33 | 8.65 | 3.20 | 8.29 | 3.07 | 7.58 | 2.81 |
| | -3.0 | -3.7 | 10.42 | 3.71 | 9.71 | 3.45 | 9.00 | 3.19 | 8.65 | 3.07 | 8.29 | 2.94 | 7.58 | 2.70 |
| | 0.0 | -0.7 | 10.42 | 3.48 | 9.71 | 3.24 | 9.00 | 3.01 | 8.65 | 2.89 | 8.29 | 2.77 | 7.58 | 2.55 |
| | 3.0 | 2.2 | 10.42 | 3.29 | 9.71 | 3.06 | 9.00 | 2.85 | 8.65 | 2.74 | 8.29 | 2.63 | 7.58 | 2.42 |
| | 5.0 | 4.1 | 10.42 | 3.17 | 9.71 | 2.96 | 9.00 | 2.75 | 8.65 | 2.65 | 8.29 | 2.55 | 7.58 | 2.34 |
| | 7.0 | 6.0 | 10.42 | 3.07 | 9.71 | 2.86 | 9.00 | 2.66 | 8.65 | 2.56 | 8.29 | 2.47 | 7.58 | 2.27 |
| | 9.0 | 7.9 | 10.42 | 2.97 | 9.71 | 2.77 | 9.00 | 2.58 | 8.65 | 2.49 | 8.29 | 2.39 | 7.58 | 2.21 |
| | 11.0 | 9.8 | 10.42 | 2.88 | 9.71 | 2.69 | 9.00 | 2.51 | 8.65 | 2.42 | 8.29 | 2.33 | 7.58 | 2.15 |
| | 13.0 | 11.8 | 10.42 | 2.79 | 9.71 | 2.61 | 9.00 | 2.43 | 8.65 | 2.35 | 8.29 | 2.26 | 7.58 | 2.09 |
| | 15.0 | 13.7 | 10.42 | 2.71 | 9.71 | 2.54 | 9.00 | 2.37 | 8.65 | 2.28 | 8.29 | 2.20 | 7.58 | 2.03 |

TC Total capacity ; kW

PI Power Input ; kW (Comp.+Outdoor fan motor)

## 8.2 Capacity Correction Factor

### 8.2.1 Heat Pump

**RXYM4·5·6MVM(T)**

3D044921

1. Rate of change in cooling capacity




2. Rate of change in heating capacity




[ Explanation of symbols ]

Hp: Level difference(m)between indoor and outdoor units where indoor unit in inferior position

HM: Level difference(m)between indoor and outdoor units where indoor unit in superior position

L : Equivalent pipe length(m)

α: Capacity correction factor

[ Diameter of pipes ]

| Model | gas |
|---|---|
| RXYM4, 5, 6MVM(T) | φ 19.1 |

[ Notes ]

1. These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum)under standard conditions,
   Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
2. With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
3. Method of calculating cooling / heating capacity (max. capacity for combination with standard indoor unit)
   cooling / heating capacity = cooling / heating capacity obtained from performance characteristics table) X each capacity rate of change
   In the case length of piping differs depending on the indoor unit, maximum capacity of each unit during simultaneous operation is:
   cooling / heating capacity = cooling / heating capacity of each unit ) X capacity rate of change for each piping length

<As for RXYM4, 5, 6MVM(T)>

4. When overall equivalent pipe length is 90m or more, the diameter of the main gas pipes (outdoor unit-branch sections) must be increased.
   [ Diameter of above case ]

| Model | gas |
|---|---|
| RXYM4, 5, 6MVM(T) | φ 22.2 |

5. When the main sections of the interunit gas pipe diameters are increased the overall equivalent length should be calculated as follows.

Overall equivalent length=Equivalent length to main pipe×0.5+Equivalent length after branching

(Example : RXYM4, 5, 6MVM(T))




In the above case(Cooling)
Overall equivalent length=80m×0.5+40m=80m
The correction factor in capacity when Hp=0m is thus approximately 0.83.

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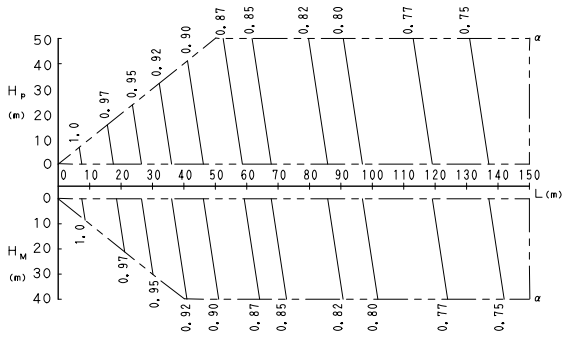
# 8.2.2 Cooling only

## RXM4·5·6MVM

### 1. Rate of change in cooling capacity




[ Explanation of symbols ]

Hp Level difference(m)between indoor and outdoor units where indoor unit in inferior position

HM Level difference(m)between indoor and outdoor units where indoor unit in superior position

L : Equivalent pipe length(m)

α: Capacity correction factor

[ Diameter of pipes ]

| Model | gas |
|---|---|
| RXM4, 5, 6MVM | φ 19.1 |

[ Notes ]

1. These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum)under standard conditions.
   Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
2. With this outdoor unit, evaporating pressure constant control when cooling, is carried out.
3. Method of calculating cooling capacity (max. capacity for combination with standard indoor unit)

   cooling capacity = cooling capacity obtained from performance characteristics table X capacity rate of change

   In the case length of piping differs depending on the indoor unit, maximum capacity of each unit during simultaneous operation is:

   cooling capacity = cooling capacity of each unit X capacity rate of change for each piping length

<As for RXM4, 5, 6MVM>

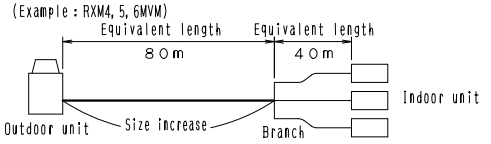
4. When overall equivalent pipe length is 90m or more, the diameter of the main gas pipes (outdoor unit-branch sections) must be increased.
   [ Diameter of above case ]

| Model | gas |
|---|---|
| RXM4, 5, 6MVM | φ 22.2 |

5. When the main sections of the interunit gas pipe diameters are increased the overall equivalent length should be calculated as follows.

   Overall equivalent length=Equivalent length to main pipe×0.5+Equivalent length after branching

   (Example : RXM4, 5, 6MVM)




   In the above case(Cooling)
   Overall equivalent length=80m×0.5+40m=80m
   The correction factor in capacity when Hp=0m is thus approximately 0.83

3D044922

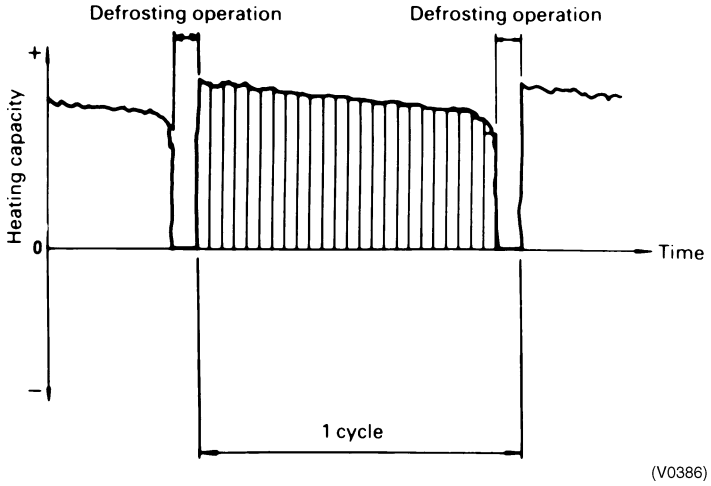
## 8.3 Notes for Heating Capacity Characteristics

- The tables do not take account of the reduction in capacity when frost has accumulated or while the defrosting operation is in progress.
  The capacity values which take these factors into account, in other words the integrated heating capacity values, can be calculated as follows:

**Formula**
Integrated heating capacity = A
Value given in table of capacity characteristics = B
Integrating correction factor for frost accumulation (kW)=C
A=B×C

- Correction factor for finding integrated heating capacity

| Inlet Port Temperature of Heat Exchanger (°C / RH 85%) | -7 | -5 | -3 | 0 | 3 | 5 | 7 |
|---|---|---|---|---|---|---|---|
| Integrating Correction Factor for Frost Accumulation | 0.95 | 0.93 | 0.87 | 0.81 | 0.83 | 0.89 | 1.0 |




**Note:**
It will be seen from the figure above that the integrated heating capacity expresses the integrated heating capacity for a single cycle (from defrost operation to defrost operation) in terms of time.

- Please take note that when there is an accumulation of snow against the outside surface of the outdoor unit heat exchanger there will always be a temporary reduction in capacity although this will, of course, vary in degree in accordance with a number of other factors such as the outdoor temperature (°CDB), relative humidity (RH) and the amount of frosting which occurs.

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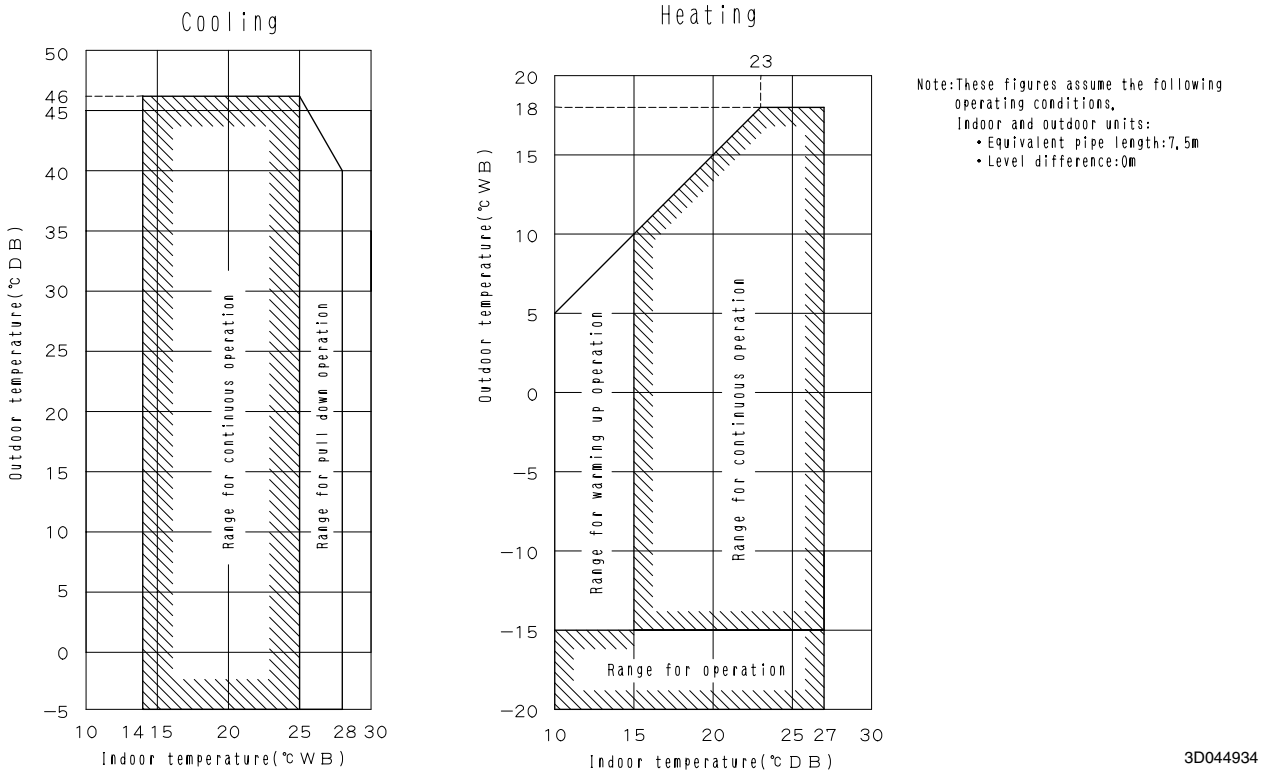
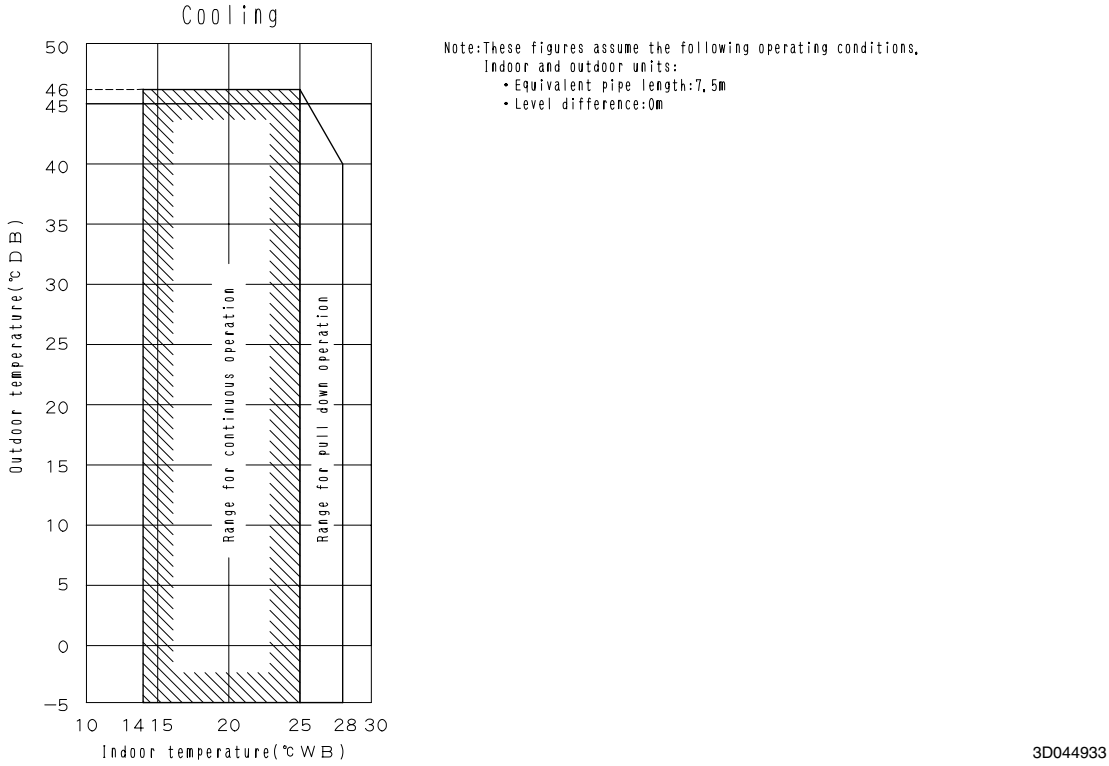
# 9. Operation Limits

## Heat Pump




## Cooling Only

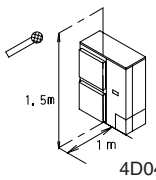


# 10. Sound Levels

## Overall

dBA

| Power Supply / Model | 50Hz/220-230V | | 60Hz/220V | |
|---|---|---|---|---|
| | Cooling | Heating | Cooling | Heating |
| RX(Y)M4MVM(T) | 51 | 52 | 51 | 52 |
| RX(Y)M5MVM(T) | 52 | 53 | 52 | 53 |
| RX(Y)M6MVM(T) | 53 | 54 | 53 | 54 |



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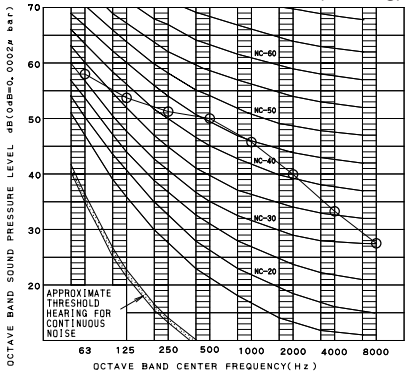
## Octave Band Level

50Hz
60Hz

### RX(Y)M4MVM(T)

(Cooling)



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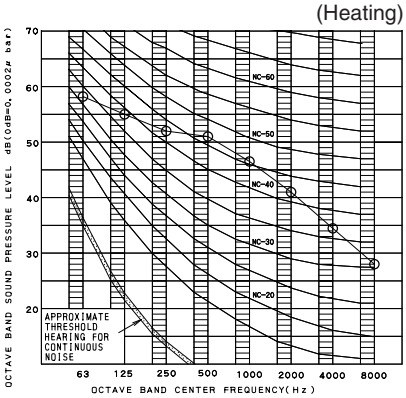
### RXYM4MVH(T)

(Heating)



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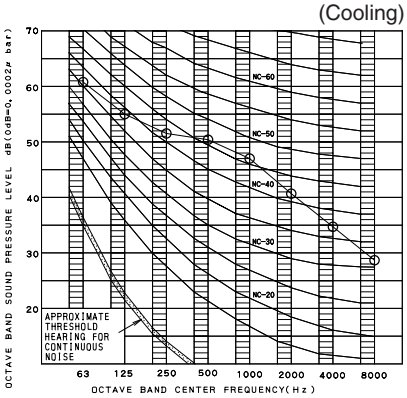
### RX(Y)M5MVM(T)

(Cooling)



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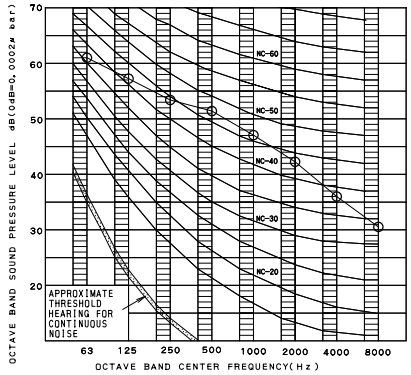
### RXYM5MVH(T)

(Heating)



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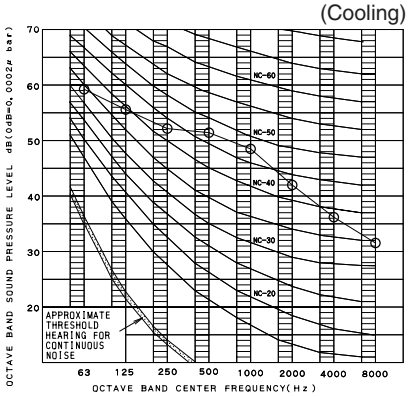
### RX(Y)M6MVM(T)

(Cooling)



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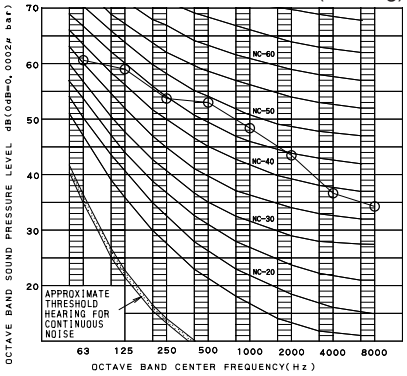
### RXYM6MVM(T)

(Heating)



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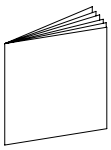
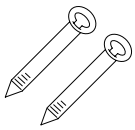
# 11. Accessories

## 11.1 Outdoor Units

### 11.1.1 Standard Accessories

| Operation manual | Clamp | Others |
|---|---|---|
|  (1 book) |  (2 pcs.) | · Installation manual |

### 11.1.2 Optional Accessories

**RX(Y)M4~6MVE(T)**

| Optional accessories | | RXY4MVM(T)<br>RXY5MVM(T)<br>RXY6MVM(T) | | RXM4MVM<br>RXM5MVM<br>RXM6MVM | |
|---|---|---|---|---|---|
| Cool/Heat Selector | | KRC19-26A (For Heat Pump) | | — | |
| Fixing box | | KJB111A | | — | |
| Distributive Piping | Refnet header | KHRJ26K11H, KHRJ26K18H<br>(MAX. 4 branch) (MAX. 6 branch) | | | |
| | Refnet joint | KHRJ26K11T, KHRJ26K18T | | | |
| Central drain plug | | KWC26B160 | KWC26B160E | KWC26B280 | KWC26B280E |
| Fixture for preventing overturning | | KPT-60B160 | | | |
| Wire fixture for preventing overturning | | K-KYZP15C | | | |

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# Part 4 Installation of Outdoor Units

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# 1. Precaution on Installation

## Safety Considerations

**Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly.**

- Cautions indicated here are classified into the following two types.
  Each type of caution describes important contents related to safety. Make sure to observe each caution.

**Warning.....** Failure to observe a warning may result in death.

**Caution.....** Failure to observe a caution may result in injury or damage to the equipment.

- After completing the installation, make sure that unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained. Also, inform customers that they should store this installation manual along with the operation manual for future reference.

**Warning**

- Ask your dealer or qualified personnel to carry out installation work. Do not try to install the machine yourself. Improper installation may result in water leakage, electric shocks or fire.
- Perform installation work in accordance with this installation manual. Improper installation may result in water leakage, electric shocks or fire.
- When installing the air conditioner in a small room, proper measures are required so that the limit concentration is not exceeded even if the refrigerant leaks. For the measures to prevent excess of the limit concentration, discuss with your dealer, then take the measures during installation.
  If the refrigerant leaks and exceeds the limit concentration, an oxygen deficiency accident may be caused.
- Be sure to use only the specified accessories and parts for installation work.
  Failure to use the specified parts may result in water leakage, electric shocks, fire or the unit falling.
- Install the air conditioner on a foundation strong enough to withstand the weight of the unit.
  A foundation of insufficient strength may result in the equipment falling and causing injuries.
- Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes.
  Improper installation work may result in the equipment falling and causing accidents.
- All attachments related to electricity should be performed by specialized technicians in accordance with relevant local laws and regulations and this manual. Use dedicated power supplies.
  If the capacity of power lines is insufficient or the wiring is improper, electric shock or fire may be caused.
- Make sure that all wiring is secured, the specified wires and used, and no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring the power supply and connecting the remote controller wiring and transmission wiring, position the wires so that the electric parts box lid can be securely fastened.
  Improper positioning of the electric parts box lid may result in electric shocks, fire or the terminals overheating.
- If the refrigerant gas leaks during installation, ventilate the area immediately.
  Toxic gas may be produced if the refrigerant gas comes into contact with fire.
- After completing the installation work, check that the refrigerant gas does not leak.
  Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
- Before touching the parts on the terminal board, turn off the unit.

**Caution**

- Perform grounding in the air conditioner. Do not connect the ground wire to gas pipes, sewage pipes, lightening rods and telephone ground wires.
  If grounding is improper, electric shock may be caused.
  - Gas pipes·.....Can explode or catch fire if gas leaks.
  - Sewage pipes.....Provide no grounding effect if pipes are made of resin.
  - Telephone ground wires and lightening rods.....Cause abnormally high electrical potential in the ground when lightening occurs.
- It is necessary to install a branch switch, overcurrent breaker (fuse) and earth leakage breaker.
  If a branch switch, overcurrent breaker (fuse) and earth leakage breaker are not installed, electric shock or fire may be caused.
- While following the instructions in this installation manual, install drain piping in order to ensure proper drainage and insulate piping in order to prevent condensation.

Improper drain piping may result in water leakage and property damage.

- Keep the indoor units, outdoor units, power cables and transmission wirings off TVs and radios by 1 m or more to prevent image disturbance and noise.
  (Depending on the radio waves, a distance of 1 meter may not be sufficient enough to eliminate the noise.)
- Do not install the air conditioner in the following locations:
  (a) where a mineral oil mist or an oil spray or vapor is produced, for example in a kitchen
  Plastic parts may deteriorate and fall off or result in water leakage.
  (b) where corrosive gas, such as sulfurous acid gas, is produced
  Corroding copper pipes or soldered parts may result in refrigerant leakage.
  (c) near machinery emitting electromagnetic waves.
  Electromagnetic waves may disturb the operation of the control system and result in a malfunction of the equipment.
  (d) where flammable gases may leak, where there are carbon fiber or ignitable dust suspensions in the air, or where volatile flammables such as thinner or gasoline are handled.
  Operating the unit in such conditions may result in fire.
- Do not allow a child to mount on the outdoor unit or avoid placing any object on it.
  Falling or tumbling may result in injury.
- Do not wash outdoor units and indoor units.
  Washing may cause electric shock or fire.

**Caution**

- The refrigerant R22 requires strict cautions for keeping the system tight, clean and dry and for recovering the refrigerant.
  - Tight
    R22 contain chlorine, destroy the ozone layer, and reduce the earth's protection against harmful ultraviolet radiation.
    R22 can contribute slightly to the greenhouse effect if it is released. Therefore we should take special attention to check released. Therefore we should take special attention to check the tightness of the installation. Read the chapter "Refrigerant piping work" carefully and follow these procedures correctly.
  - Recovery
    Recover the refrigerant in disposing of, moving (for installation in a different location) and servicing the system.
  - Clean and dry
    Foreign materials should be prevented from getting mixed into the system.

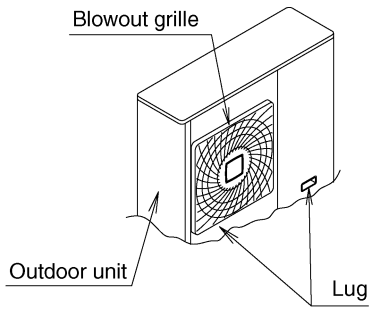
**Caution**

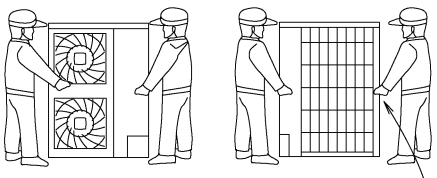
- For installation of the indoor units, refer to the installation manual supplied together with each indoor unit.
- Never operate the air conditioner with the discharge pipe thermister (R3T), suction pipe thermister (R2T) and pressure sensors (S1NPH, S1NPL) removed. Such operation may burn out the compressor.

## Before Installation

**<Bringing-in>**

Bring in the outdoor unit slowly by holding the lugs provided on the left and right sides as shown in the figures below. (Take care so that hands and objects do not touch the fin on the rear.)




**If the suction hole area on the side of the casing is held, the casing may be deformed. Make sure to hold the corner.**

◎ Make sure to use accessories and specified specification parts in the installation work.

## Selection of Installation Location

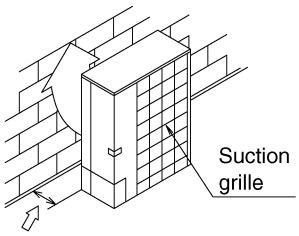
**(1) Select a proper location satisfying the following requirements with approval of the customer.**

- Sufficient ventilation is secured.
- Adjacent houses are not annoyed.
- The foundation is strong enough to support the weight and withstand vibrations of the outdoor unit, and the location is safe and allows horizontal installation.
- The outdoor unit is exposed to rain as less as possible.
- The space for installation and servicing is secured around the outdoor unit.
- The indoor/outdoor piping length and wiring length are within the allowable range.
- There is no danger of leakage of inflammable gas.

**(2) When installing the outdoor unit in a location affected by strong wind, pay special attention to the following items.**

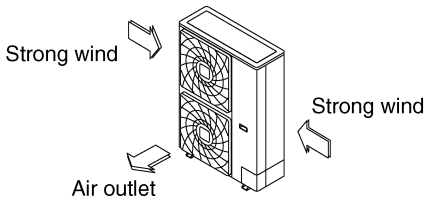
- If strong wind whose velocity is 5 m/sec or more blows to the outdoor unit from the air outlet side, the air quantity of the outdoor unit is reduced, the blown-out air is sucked again (short-circuit), and the following effect may be caused:
  - The ability is deteriorated.
  - The adhered frost quantity increases during heating.
  - The operation is stopped by pressure rise.
- If excessive strong wind continuously blows from the front on the air outlet side of the outdoor unit, the fan may rotate in the reverse direction at high speed, and lead to damage. Install the outdoor unit in reference to the following figures.

- **Position the air outlet side toward the building wall, fence or windbreak screen.**




**(Secure the space for installation and servicing.)**

- **Let the air outlet direction face be at right angles to the wind direction.**

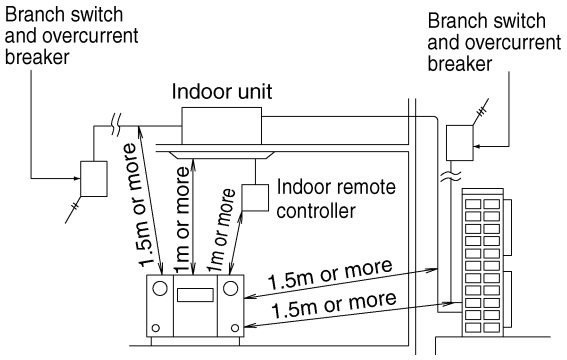



**(3) When installing the outdoor unit in a location with heavy snowfall, pay special attention to the following items:**

- Prepare high foundation.
- Attach the snow hood (sold separately).
- Remove the suction grill on the rear so that snow will not be accumulated in the rear fin.

**(4) When there is fear of short-circuit depending on the ambient situation, use the wind direction adjusting plate (sold separately).**

**(5) The inverter type air conditioner may cause noise in electric products.**
**When selecting an installation location, keep sufficient distance from the air conditioner units and wiring to radios, personal computers, stereos, etc. as shown in the figure below. In areas with weak electric waves, keep a distance of 3 m or more from the indoor remote controller, etc., put the power cables and connection cables in conduit tubes, and ground the conduit tubes.**
**Make sure to use shielded wires for the wiring among units.**

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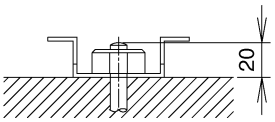
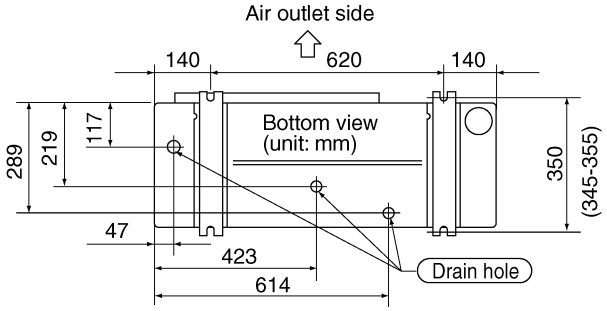
## Cautions on Installation

- Before installation, confirm the strength and levelness of the foundation so that vibrations and noise are not generated.
- Fix the outdoor unit securely on a rigid base with foundation bolts as shown in the foundation drawing below. (Prepare 4 sets of commercially available M12-type foundation bolts, nuts and washers.)
- The foundation bolts should be protruded by 20 mm.
  **(Refer to figure)**



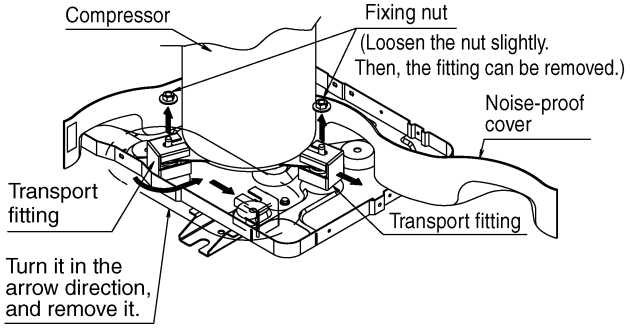

**<<Drain treatment>>**

- In a location where drain from the outdoor unit may cause troubles (for example, where drainage may splash on general passer-by), perform the drain piping work using the drain plug (optional).
- For drain treatment, space of at least 100 mm is required under the bottom frame of the outdoor unit.
- In the drain piping work, make sure that drainage is discharged securely.
  (When routing the piping downward, check for water leakage.)




**Transport fitting removal procedure**

- Transport fittings (ivory white ones in two positions) are provided on the leg of the compressor for protecting the unit during transport. Remove them as described below.



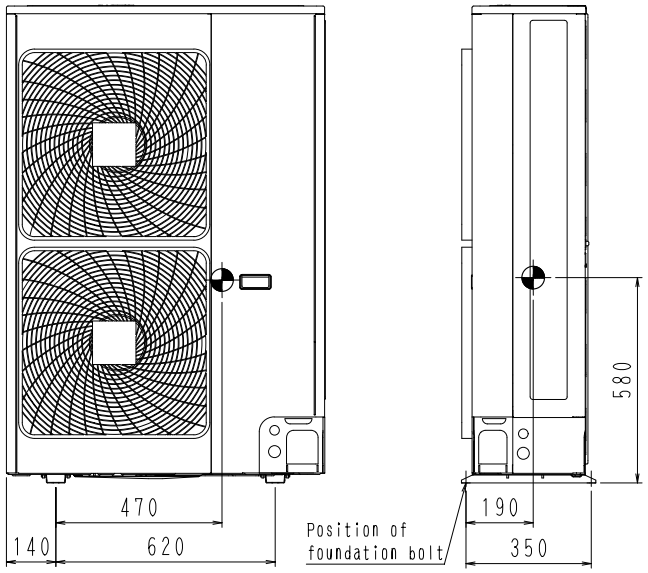

(1) Open the noise-proof cover as shown in the figure above.
At this time, do not pull the noise-proof cover, and do not remove it from the compressor.
(2) Slightly loosen each fixing nut.
(3) Remove each transport fitting as shown in the figure above.
(4) Tighten each fixing nut again.
(5) Close the noise-proof cover to achieve the former status.

**Caution**

If the unit is operated with the transport fittings attached, abnormal vibration or sound may be generated.

# 2. Installation of Outdoor Units

**Center of Gravity**

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# 3. REFNET Pipe System

## 3.1 Refrigerant Piping Work

**Caution**

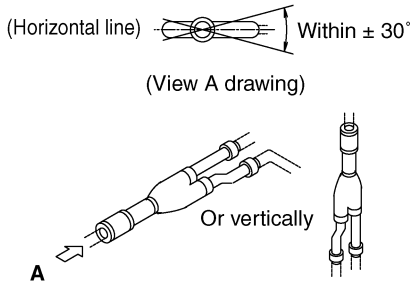
**<To piping technician>**

- **Make sure to open the shutoff valve after finishing the piping work. (Refer to the table shown in "7-8 Additional refrigerant charge".)**
  **(Operating the air conditioner with the shutoff valve shut may damage the compressor.)**

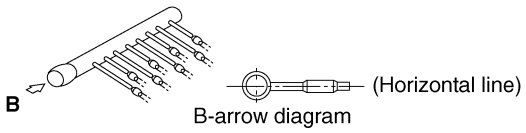
### 3.1.1 Selection of Piping Material

- Use the following material for the refrigerant piping:
  Material: Phosphoric acid deoxidized seamless copper pipe
- All field piping must be installed by a licensed refrigeration technician and must comply with relevant local and national regulations.
- Wall thickness and size: Determine the wall thickness and size according to the piping size selection procedure shown in the table below.
- Make sure to perform the piping installation within the range of the maximum allowable pipe length, allowable level difference and allowable length after branching as indicated in chapter "Example of connection"
- Make sure to perform the piping work within the range of maximum allowable length, allowable height difference and allowable length after branch shown in the table below.
- For installation of the refrigerant branching kit, refer to the installation manual delivered with the kit.

• Install the REFNET joint so that the piping is branched horizontally or vertically.




• Mount the REFNET header so that it branches horizontally.




### 3.1.2 Protection of Piping

- Protect the piping to prevent invasion of moisture and dusts into the piping.
- Especially, pay rigid attention when letting a copper pipe pass through a penetration area or letting the end of a copper pipe go to the outdoor.

| Location | Work period | Protection method |
|---|---|---|
| Outdoor | 1 month or more | Pinch pipes |
| | Less than 1 month | Pinch or tape pipes |
| Indoor | Regardless of period | |

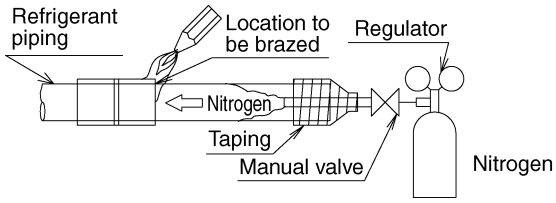
## 3.1.3 Pipe Connection

- **For handling of shutoff valves, refer to "Shutoff valve operation method" in "7-8 Additional refrigerant charge".**
- **Only use the flare nuts included with the unit.**
  **Using different flare nuts may cause the refrigerant to leak.**
- **Be sure to perform a nitrogen blow when brazing.**

(Brazing without performing nitrogen replacement or releasing nitrogen into the piping will create large quantities of oxidized film on the inside of the pipes, adversely affecting valves and compressors in the refrigerating system and preventing normal operation.)

**Note**

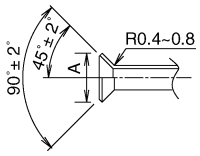
When brazing pipes while flowing nitrogen, set the nitrogen pressure to 0.02 MPa (0.2 kg/cm$^2$) or less using a pressure reducing valve (to the extent that your cheeks feel breeze).



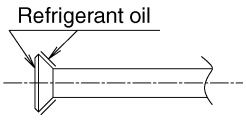

◎ Do not let any refrigerant other than the specified refrigerant enter the refrigerant system.
◎ Do not let any gas such as air enter the refrigerant system.

**<Precautions when connecting pipes>**

- See the following table for flare part machining dimensions.
- When connecting the flare nuts, apply refrigerant oil to the inside and outside of the flares and turn them three or four times at first.
- See the following table for tightening torque. (Applying too much torque may cause the flares to crack.)
- After all the piping has been connected, use nitrogen to perform a gas leak check.

| Pipe size | Tightening torque | Flare part machining dimension A (mm) | Flare shape |
|---|---|---|---|
| ϕ9.5 | 32.7 - 39.9 N·m | 12.6 - 13.0 |  |
| ϕ19.1 | 97.2 - 118.6 N·m | 23.3 - 23.7 | |






- If you are obliged to install the unit without a torque wrench, you may follow the installation method mentioned below.
  After the work is finished, make sure to check that there is no gas leak.
- When you keep on tightening the flare nut with a spanner, there is a point where the tightening torque suddenly increases.
  From that point where the tightening torque suddenly increases.
  From that position, further tighten the flare nut the angle shown below.

| Pipe size | Tightening angle (Guideline) | Recommended arm length of tool |
|---|---|---|
| ϕ9.5 | 60°~90° | Approx. 200 mm |
| ϕ19.1 | 20°~35° | Approx. 450 mm |

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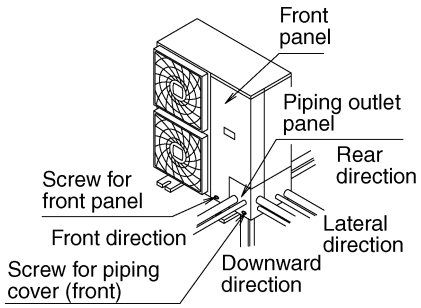
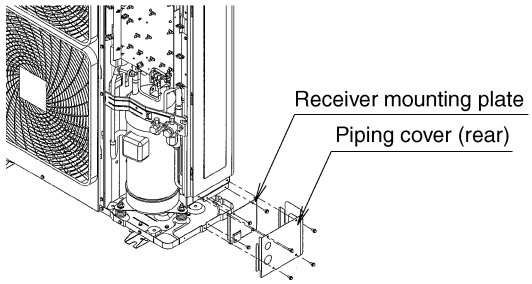
## 3.1.4 Refrigerant Piping Work Procedure

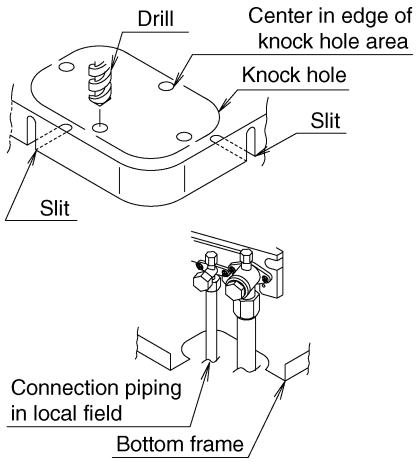
◎ The connection piping in the local field can be connected in four directions.




* When connecting the piping in the lateral direction (on the rear), remove the piping cover (rear) and receiver mounting plate in reference to the figure below.




◎ When connecting the piping downward, punch round holes in center (in four positions) in each edge of the knock hole area using the ϕ6-bit drill, then punch a knock hole.

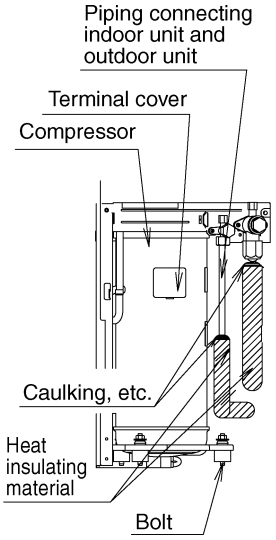



* By cutting out slits (in two positions), the outdoor unit can be installed as shown in the figure above. (When cutting out slits, use the hack-saw.)

◎ After punching a knock hole, it is recommended to apply repair paint on edges, slit cutout areas and end faces in the periphery to prevent rust.

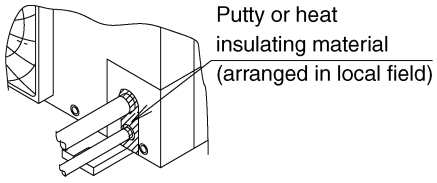
**Cautions on connecting the connection piping**

- Make sure that the piping connecting the indoor unit and outdoor unit does not touch the terminal cover of the compressor.Especially when it is expected that the heat insulating material provided on the piping on the liquid side may touch the terminal cover, adjust the height as shown in the figure on the right. Make sure also that the connection piping does not touch the bolts of the compressor and the outer plate.
- When it is expected that water condensed in the shutoff valve will reach the indoor unit through the gap between the heat insulating material and the piping (for example, when the outdoor unit is installed in a higher position than the indoor unit), take proper action such as caulking the connection area.




**[Measures to prevent invasion of small animals]**

- Block all gaps in the piping penetration areas with putty or heat insulating material (arranged in the local field) as shown in the figure below.
  (If small animals such as insects enter the outdoor unit, short-circuit may be caused inside the electric parts box.)




## 3.1.5 Heat Insulation of Piping

- When it is expected that the temperature will exceed 30°C and the humidity will exceed 80%RH inside the ceiling, reinforce the heat insulating material in the refrigerant piping (so that the thickness reaches 20 mm or more). (Otherwise, dew condensation may occur on the heat insulting material surface.)
- Make sure to insulate the connection piping (on both the liquid side and gas side) and refrigerant branching kit. (If they are not insulated, water leakage may be caused.)

  (The maximum temperature of the piping on the gas side is about 120°C during heating operation. Use a heat insulating material sufficiently resistant to this temperature.)

**Caution**

**Make sure to insulate the piping in the local field up to the piping connection area inside the unit. If the piping is exposed, dew condensation and burn by contact may be caused.**

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## 3.1.6 Airtight Test and Vacuum Drying

**Perform the following inspections securely after the piping.**

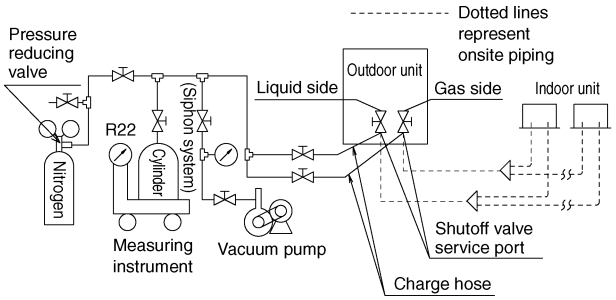
- **Airtight test** - Make sure to use nitrogen gas. (For the service port position, refer to the figure in **"Shutoff valve operation method"**.)
  [Procedure] Pressurize the air conditioner from the liquid pipes and gas pipes up to 2.8 MPa (Make sure not to exceed 2.8 MPa.). When the pressure does not drop for 24 hours, the piping work shall be accepted.
  If the pressure drops, check for leakage positions. (Confirm that there is no leakage, then release nitrogen.)
- **Vacuum drying** - Use a vacuum pump which can evacuate up to -100.7 kPa (5 Torr, -755 mmHg) or less.
  [Procedure] Operate the vacuum pump for evacuation for 2 hours or more using both liquid pipes and gas pipes until the vacuum degree reaches -100.7 kPa or less. Leave the air conditioner at -100.7 kPa or less for 1 hour or more, and confirm that the vacuum degree indicated by the vacuum gage does not increase.
  (If the vacuum degree increases, the system may contain moisture or have leakage.)

**If there is a possibility of moisture remaining in the piping** (for example, when there is a possibility of dew condensation inside the piping because the piping work was performed in the rainy season or over a long period of time, or when rainwater may have entered the piping during the work)
Perform evacuation described above for 2 hours (vacuum drying), pressurize the air conditioner up to 0.05 MPa (vacuum break) with nitrogen gas, then evacuate the air conditioner using the vacuum pump for 1 hour to achieve -100.7 kPa or less (vacuum drying).(If the vacuum degree does not reach -100.7 kPa or less even after evacuation for 2 hours or more, repeat vacuum break and vacuum drying.) Leave the air conditioner in the vacuum status for 1 hour or more, and confirm that the vacuum degree indicated by the vacuum gauge does not increase.

## 3.1.7 Additional Refrigerant Charge

When it is not necessary to charge the refrigerant additionally, open the shutoff valve according to **"Shutoff valve operation method"**.

- Determine the refrigerant quantity to be charged additionally according to the table shown on **"Example of connection"**, and record it on the [Cautions on servicing] nameplate adhered on the outdoor unit.
- Charge the refrigerant additionally by the quantity determined according to **"Example of connection"** on the table. Make sure to charge the refrigerant in the liquid status from the service port of the shutoff valve on the liquid side before opening the shutoff valve.
- After charging the refrigerant additionally, open the shutoff valves according to **"Shutoff valve operation method"**.




- Before starting charge, check whether the cylinder is equipped with siphon pipe.
  The indication "With siphon pipe for liquid charge" is provided in the cylinder.

- **How to charge the refrigerant in the liquid status**

Charging method for a cylinder equipped with siphon pipe

Because a siphon pipe is provided inside the cylinder, the refrigerant can be charged in the liquid status without turning the cylinder upside down.(Charge the refrigerant with the cylinder standing straight.)

Charging method for any other cylinder

Charge the refrigerant with the cylinder turned upside down.

**Shutoff valve operation method**

Cautions on handling the shutoff valve

- The right figure shows the name of each part required in handling the shutoff valve. At the time of shipment, the shutoff valve is closed.
- If only a torque wrench is used to loosen or tighten the flare nut, the side plate may be distorted. Make sure to fix the shutoff valve with a spanner, then loosen or tighten the flare nut with a torque wrench.
- When it is expected that the operating pressure will be low (for example, when cooling will be performed while the outside air temperature is low), seal sufficiently the flare nut in the shutoff valve on the gas side with silicon sealant to prevent icing.

**[Shutoff valve operation method]**

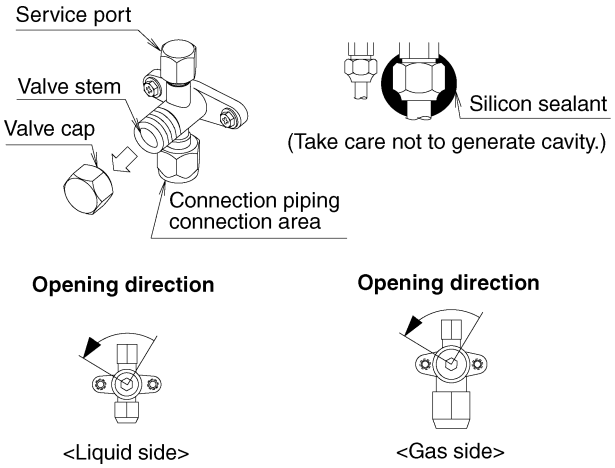
Prepare hexagon wrenches (whose size is 4 mm and 6 mm).

**How to open the shutoff valve**

1. Insert a hexagon wrench into the valve stem, and turn the valve stem counterclockwise.
2. When the valve stem cannot be turned any more, stop turning. Now, the valve is open.

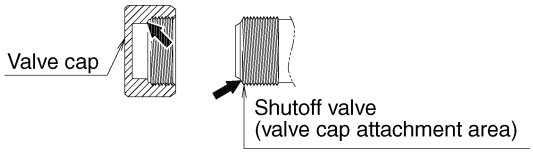
**How to close the shutoff valve**

1. Insert a hexagon wrench into the valve stem, and turn the valve stem clockwise.
2. When the valve stem cannot be turned any more, stop turning. Now, the valve is closed.




**Cautions on handling the valve cap**

- The valve is sealed in the arrow area. Take care not to damage the arrow area.




- After handling the valve, make sure to tighten the valve cap securely.

| Liquid side | Gas side |
|---|---|
| 13.5~16.5 N · m | 22.5~27.5 N · m |

**Cautions on handling the service port**

- Use charge hose equipped with push in the work.
- After the work, make sure to tighten the valve cap securely.Tightening torque.....10.8~14.7N · m

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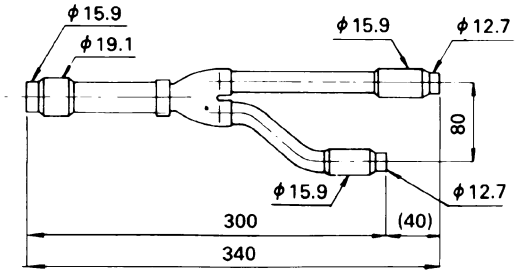
# 4. REFNET Pipe System

## 4.1 REFNET Pipe System

### 4.1.1 REFNET Joint

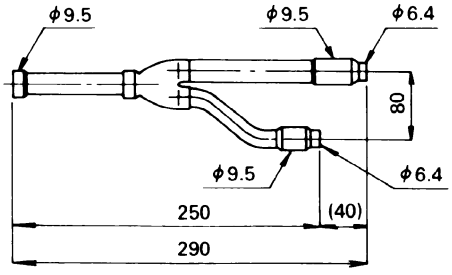
**KHRJ26K11T** (less than 100)

**Suction gas side**




(V0253)

**Liquid side**

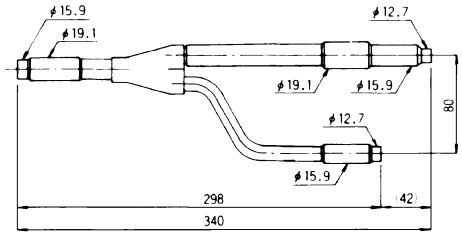



(V0254)

Including insulator

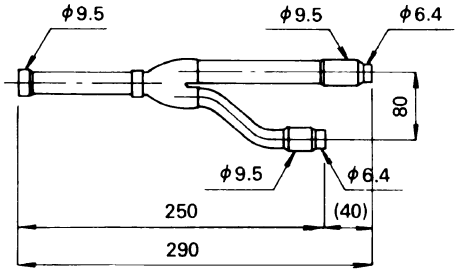
**KHRJ26K18T** (100 or more but less than 160)

**Suction gas side**




(V0255)

**Liquid side**



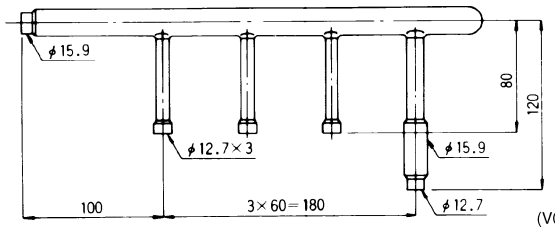

(V0256)

Including insulator

### 4.1.2 REFNET Header

**KHRJ26K11H** (4 branch fitting) (less than 100)

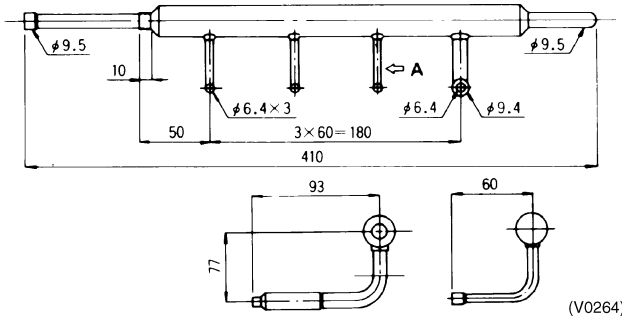
**Suction gas side**




(V0263)

Including insulator, cap pipes and tapes

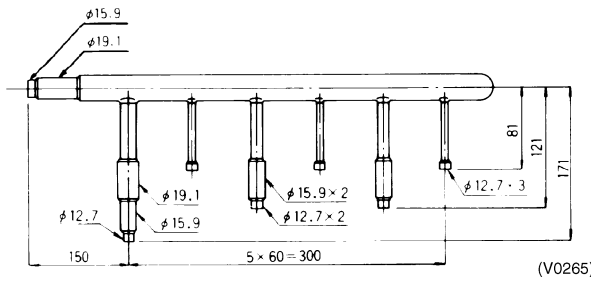
**Liquid side**




(V0264)

**KHRJ26K18H** (6 branch fitting) (100 or more but less than 160)

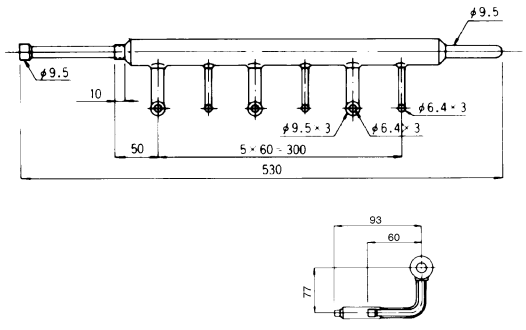
**Suction gas side**




(V0265)

Including insulator, cap pipes and tapes

**Liquid side**

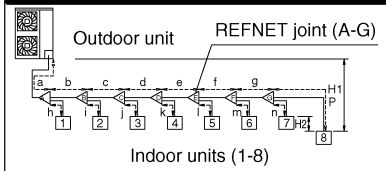
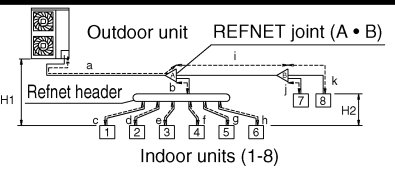
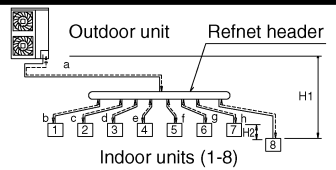



(V1380)

# 5. Example of Connection



**Example of connection**
(Connection of 8 indoor units
Heat pump system)

| | Branch with refnet joint | Branch with refnet joint and refnet header | Branch with refnet header |
|---|---|---|---|
| |  |  |  |

| | | | | | |
|---|---|---|---|---|---|
| Maximum allowable length | Between outdoor and indoor units | Actual pipe length | Pipe length between outdoor and indoor units ≤ 120m | | |
| | | | Example unit 8: a + b + c + d + e + f + g + p ≤ 120m | Example unit 6: a + b + h ≤ 120m, unit 8: a + i + k ≤ 120m | Example unit 8: a + i ≤ 120m |
| | | Equivalent length | Equivalent pipe length between outdoor and indoor units ≤ 150m (assume equivalent pipe length of refnet joint to be 0.5m, that of refnet header to be 1m, calculation purposes) | | |
| | | Total extension length | Total piping length from outdoor unit* to all indoor units ≥10m ≤ 300m | | |
| Allowable height length | Between outdoor and indoor units | Difference in height | Difference in height between outdoor and indoor units (H1) ≤ 50m (Max 40m if the outdoor unit is below) | | |
| | Between indoor and indoor units | Difference in height | Difference in height between adjacent indoor units (H2) ≤ 15m | | |
| | Between outdoor and outdoor units | Difference in height | Difference in height between outdoor unit (main) and outdoor unit (sub) (H3) ≤ 5m | | |
| Allowable length after the branch | | Actual pipe length | Pipe length from first refrigerant branch kit (either refnet joint or refnet header ) to indoor unit ≤ 40m | | |
| | | | Example unit 8: b + c + d + e + f + g + p ≤ 40m | Example unit 6: b + h ≤ 40m, unit 8:i + k ≤ 40m | Example unit 8: i ≤ 40m |

**Refrigerant branch kit selection**

How to select the refnet joint
- When using refnet joints at the first branch counted from the outdoor unit side. Choose from the following table in accordance with the capacity of the outdoor unit.

| Outdoor unit capacity type | Refrigerant branch kit name |
|---|---|
| RX(Y)M4, 5, 6 type | KHRJ26K18T |

- For refnet joints other than the first branch, select the proper branch kit model based on the total capacity index.

| Indoor capacity index | Refrigerant branch kit name |
|---|---|
| < 100 | KHRJ26K11T |
| 100 ≤ x | KHRJ26K18T |

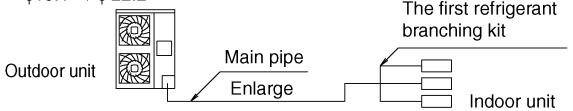
How to select the refnet header
- Choose from the following table in accordance with the total capacity of all the indoor units connected below the REFNET header.

| Indoor capacity index | Refrigerant branch kit name |
|---|---|
| < 100 | KHRJ26K11H (Max. 4 kit) |
| 100 ≤ x | KHRJ26K18H (Max. 6 kit) |

| | | | |
|---|---|---|---|
| Example of downstream indoor units | example in case of refnet joint C;<br>indoor units 3 + 4 + 5 + 6 + 7 + 8 | example in case of refnet joint B indoor units 7 + 8,<br>example in case of refnet header;<br>indoor units 1 + 2 + 3 + 4 + 5 + 6 | example in the case of refnet header;<br>indoor units 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 |

**Pipe size selection**
〈**Caution on selecting connection pipes**〉
- When the equivalent piping length between the outdoor unit and the indoor unit is 90 m or more, make sure to use a thicker pipe as the main pipe on the gas side. When the air-conditioning ability is reduced due to the refrigerant piping distance, a thicker pipe may be used also as the main pipe.

[Gas side]
ϕ19.1 → ϕ 22.2




Caution) In brazing connection in the size increase area (ϕ 19.1 → ϕ 22.2) in the piping, use a different-diameter joint for connection. (The different-diameter joint should be arranged in the local field.)
The connection area is located near the outdoor unit (usually after the first bending outside the unit).

Piping between outdoor unit and refrigerant branch kit
- Match to the size of the connection piping on the outdoor unit.

Outdoor unit connection pipe size (Unit: mm)

| Outdoor unit capacity type | Piping size (outer diameter x minimum thickness) | |
|---|---|---|
| | Gas pipe | Liquid pipe |
| RX(Y)M 4, 5, 6 type | ϕ 19.1 x 1.0 | ϕ 9.5 x 0.8 |
| | ϕ 22.2 x 1.0 * | |

*When the size is larger

Piping between refrigerant branch kits
- Choose from the following table in accordance with the total capacity of all the indoor units connected below this.

(Unit: mm)

| Indoor capacity index | Piping size (outer diameter x minimum thickness) | |
|---|---|---|
| | Gas pipe | Liquid pipe |
| Less than 100 | ϕ 15.9 x 1.0 | ϕ 9.5 x 0.8 |
| 100 or more | ϕ 19.1 x 1.0 | ϕ 9.5 x 0.8 |

Example) When the capacity type and number of indoor units connected in the downstream of the refrigerant branching kit are "40 type x 1 unit, 50 type x 1 unit"

Total capacity of indoor units = 40 x 1 + 50 x 1 = 90

⇨ Use a piping size less than 100.

Between refrigerant branch kit and indoor unit
- Pipe size for direct connection to indoor unit must be the same as the connection size of indoor unit.

Indoor unit connection pipe size (Unit: mm)

| Indoor unit capacity type | Piping size (outer diameter x minimum thickness) | |
|---|---|---|
| | Gas pipe | Liquid pipe |
| 20 · 25 · 32 · 40 type | ϕ 12.7 x 0.8 | ϕ 6.4 x 0.8 |
| 50 · 63 · 80 type | ϕ 15.9 x 1.0 | ϕ 9.5 x 0.8 |
| 100 · 125 type | ϕ 19.1 x 1.0 | ϕ 9.5 x 0.8 |

**How to calculate the additional refrigerant to be charged**
Additional refrigerant to be charged R (Kg)
R should be rounded off in units of 0.1Kg.

NOTE:
If a negative result is gotten for R from the formula at right, no refrigerant needs to be added.

R= (Total length (m) of liquid piping size at ϕ22.2) ×0.36 + (Total length (m) of liquid piping size at ϕ19.1) ×0.27 + (Total length (m) of liquid piping size at ϕ15.9) ×0.17 + (Total length (m) of liquid piping size at ϕ12.7) ×0.10 + (Total length (m) of liquid piping size at ϕ9.5) ×0.05 + (Total length (m) of liquid piping size at ϕ6.4) ×0.025

Example for refrigerant branch using refnet joint and refnet header

The piping lengths are as at right

| | | | | |
|---|---|---|---|---|
| a: ϕ19.1 x 30m | d: ϕ9.5 x 10m | g: ϕ 6.4 x 10m | j : ϕ 6.4 x 10m |
| b: ϕ15.9 x 10m | e: ϕ9.5 x 10m | h: ϕ 6.4 x 20m | k: ϕ 6.4 x 9m |
| c: ϕ 9.5 x 10m | f : ϕ9.5 x 10m | i : ϕ12.7 x 10m | |

R= 30×0.27 + 10×0.17 + 10×0.10 + 40×0.05 + 49×0.025 - 6 = 8.025 ⇩ 8.0

a b i c+d+e+f g+h+j+k

# 6. Field Wiring

## 6.1 Electrical Wiring Work

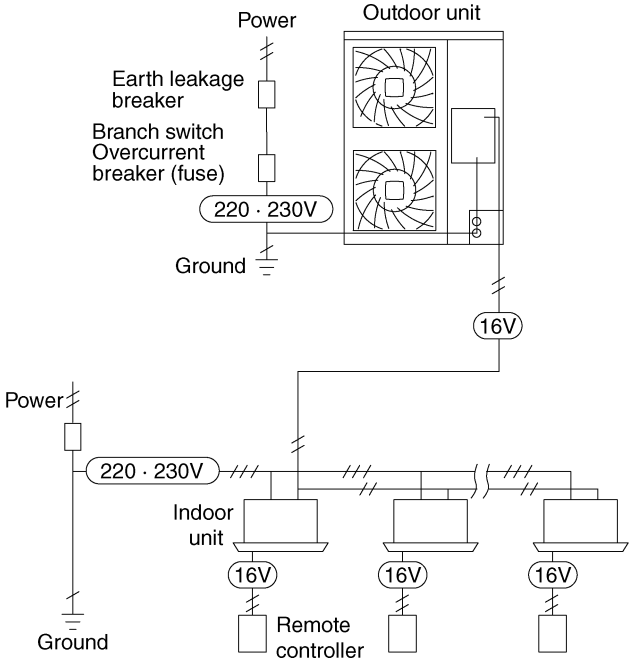
**Caution**

**<To electrician>**

- **Do not operate the air conditioner until the refrigerant piping work is completed.**
  **(Operating the air conditioner before the refrigerant piping work is completed may damage the compressor.)**
- **Install an earth leakage breaker.**
  **(The inverter is provided in the air conditioner. In order to prevent malfunction of the earth leakage breaker itself, use a breaker resistant to higher harmonics.)**

- Electricians having sufficient knowledge should perform the electrical wiring work.
- Perform the electrical wiring work in accordance with the “electrical wiring drawing nameplate”.
  Make sure to set to OFF the branch switch and overcurrent breaker before starting the work.
- Install an earth leakage breaker.
- Perform grounding to the indoor units and outdoor units.
- Do not connect the ground wire to gas pipes, sewage pipes, lightning rods, or telephone ground wires.
  - Gas pipes.....Can explode or catch fire if gas leaks.
  - Sewage pipes.....Provides no grounding effect if hard plastic pipes are used.
  - Telephone ground wires and lightening rods .....
    Dangerous when struck by lightening due to abnormal rise in the electrical potential in the ground.
- Use only copper wires.
- Make sure to shut down the power before starting the electric wiring work.
  Do not set to ON any switch until the work is completed.
- The outdoor unit has an inverter which generates noise and charges the outer casing with the leakage current.
  The outdoor unit should be grounded so that the effect of the generated noise on other equipment can be reduced, and that the outer casing can be discharged.
- Never install a phase advancing capacitor for power factor improvement.
  (Even if it is installed, the power factor is not improved. And if it is installed, the outdoor unit is abnormally overheated.)
- Use specified electric wires in the wiring, and connect them securely.
  Fix them with accessory clamps in such a way that external force is not applied in the terminals (transmission wiring in the local field and ground terminal).
  For the details, refer to **“Power cable connection procedure”**.
- Never push excessive electric wires into the units.
- Protect electric wires with conduit tubes or vinyl tubes so that they will not be damaged by edges of knock holes.
- Fix electric wires with clamps offered as accessories so that they will not come to contact with pipes and shutoff valves.
  (Refer to **“Power cable connection procedure”**.)

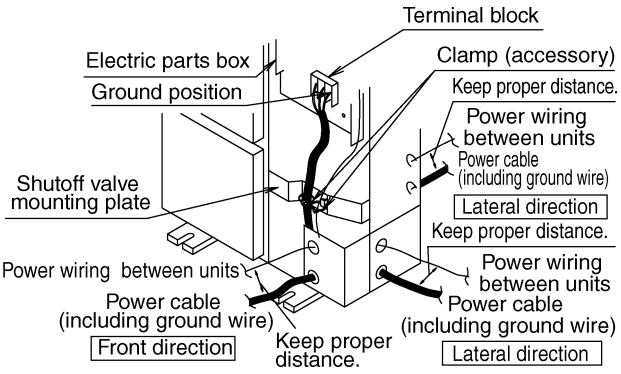
### 6.1.1 Connection Example of Total System Wiring




### 6.1.2 Picking Power Wire and Transmission Wire

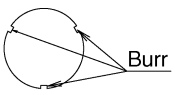
Let the power wire (including ground wire) go through the power outlet port on the side or front of the outdoor unit main body.

Let the wiring among the units go through the cable outlet port, pipe outlet port or knock hole on the front of the outdoor unit main body.




**<Precautions when knocking out knock holes>**

- To punch a knock hole, hit on it with a hammer.
- After knocking out the holes, we recommend you paint the edges and areas around the edges using the repair paint to prevent rusting.
- When passing electrical wiring through the knock holes, remove any burrs from the knock holes and wrap the wiring with protective tape to prevent damage.




If there are any possibilities that small animals enter the system through the knock holes, plug the holes with packing materials (to be prepared onsite).

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**Caution**

- **Use a power wire pipe for the power wiring.**
- **Outside the unit, make sure the weak electric wiring (i.e. for the remote control, between units, etc.) and the strong electric wiring do not pass near each other, keeping them at least 50 mm apart. Otherwise, the outdoor unit may be affected by electrical noise (external noise), and malfunction or fail.**
- **Be sure to connect the power wiring to the power wiring terminal block and secure it as described in "Power cable connection procedure".**
- **Fix the wiring among the units in accordance with "Unit-to-unit cable connection procedure".**
- **Secure the wiring with the accessory clamps so that it does not touch the piping.**
- **Make sure the wiring and the electric parts box lid do not stick up above the structure, and close the cover firmly.**

## 6.1.3 Power Cable Connection Procedure

**Warning**

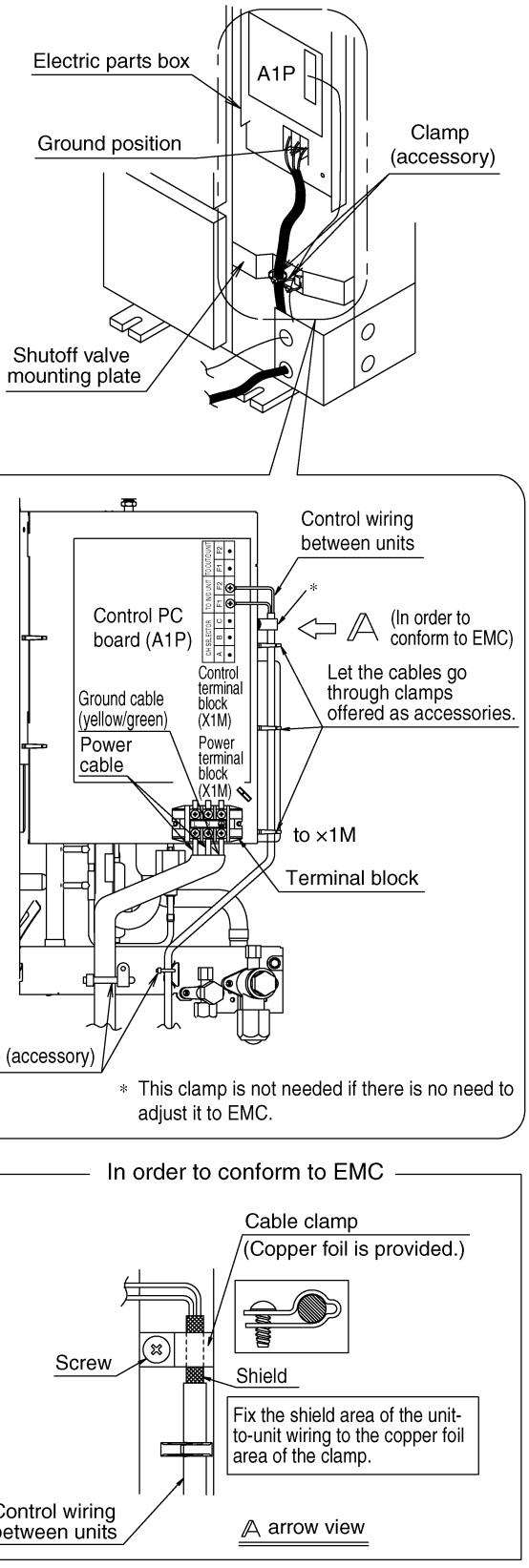
**Install an earth leakage breaker.**

• It is obliged to install an earth leakage breaker to prevent electric shock and fire accident.

| Model | Phase and frequency | Voltage | Rated current of fuse | Min. Circuit Amps. |
|---|---|---|---|---|
| RX(Y)M4 MVM | ~ 50Hz | 220V · 230V | 30A | 27A |
| RX(Y)M5 MVM | ~ 50Hz | 220V · 230V | 30A | 27A |
| RX(Y)M6 MVM | ~ 50Hz | 220V · 230V | 30A | 27A |
| RXYM4M VMT | ~ 60Hz | 220V | 30A | 27A |
| RXYM5M VMT | ~ 60Hz | 220V | 30A | 27A |
| RXYM6M VMT | ~ 60Hz | 220V | 30A | 27A |

**Caution**

- Select the power supply cable in accordance with relevant local and national regulations.
- Wire size must comply with the applicable local and national code.
- Specifications for local wiring power cord and branch wiring are in compliance with IEC60245.
- WIRE TYPE H05VV(*)
  *Only in protected pipes, use H07RN-F when protected pipes are not used.
- Install an earth leakage breaker.
  (The inverter is provided in the air conditioner. In order to prevent malfunction of the earth leakage breaker itself, use a breaker resistant to higher harmonics.)
- In connecting the power cable to the power terminal block, securely clamp the cable as shown in the figure right.




**Caution**

After finishing the electric work, confirm that each electric part and terminal inside the electric parts box is connected securely.

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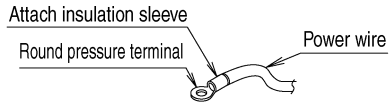
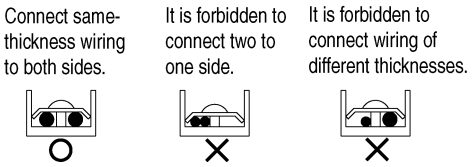
**<<Precautions when laying power wiring>>**

- Two electric wires of different thickness cannot be connected to the power terminal block.
  (Slack in the electric wires may generate abnormal heat.)
- Use round pressure terminals with insulting sleeve for connection to the power terminal block.
  If such terminals are not available for unavoidable reasons, connect an electric wire of the same thickness to each side as shown in the figure.



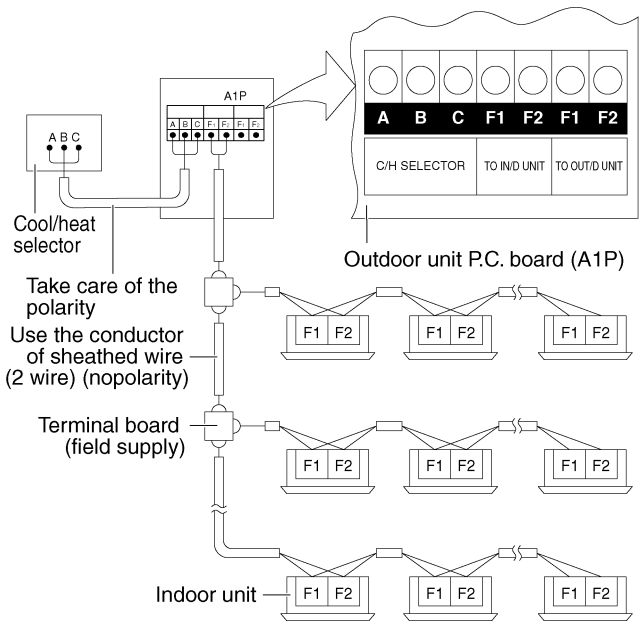

Make sure to observe the following items. If they are not observed, abnormal heat may be generated by slack in electric wires, etc.

- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws.
  A screwdriver with a small head will strip the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.
- See the table below for tightening torque for the terminal screws.

| Tightening torque (N · m) | | |
|---|---|---|
| M5 | (Power terminal block · ground wire) | 2.39~2.91 |
| M4 | (Shielded ground) | 1.18~1.44 |
| M3 | (Transmission wiring terminal block) | 0.8 ~ 0.97 |

## 6.1.4 Unit-to-unit Cable Connection Procedure

- **If an excessive force is applied while connecting a cable to the terminal block on the PC board, the PC board may be damaged. Take due care.**

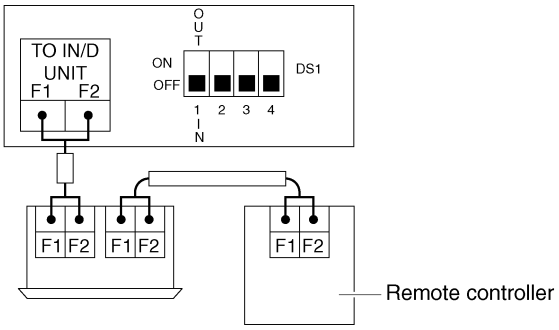


**Sequential start**

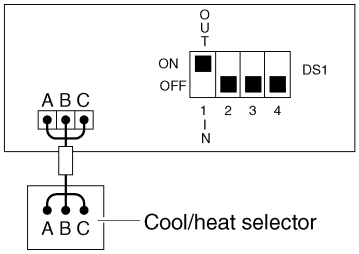
Make the outdoor unit cable connections shown below.
The outdoor unit PC board (A1P) is factory set at “Sequential start available”.

**Setting the cool/heat operation** (heat pump unit only)

1. Performing cool/heat setting with the remote controller connected to the indoor unit.
   Keep the cool/heat selector switch (DS1) on the outdoor unit PC board (A1P) at the factory setting position IN/D UNIT.




2. Performing cool/heat setting with the cool/heat selector.
   Connect the cool/heat selector remote controller (optional) to the A/B/C terminals and set the cool/heat selector switch (DS1) on the outdoor unit PC board (A1P) to OUT/D UNIT.




**Caution**

For low-noise operation, it is necessary to get the optional “External control adaptor for outdoor unit”.
For details, see the installation manual attached to the adaptor.

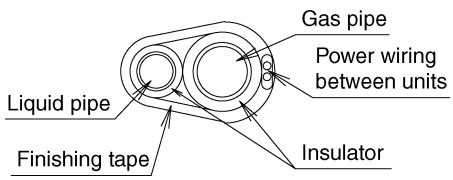
**Caution on the wiring length among units**

**Make sure to observe the restrictions below. If they are not observed, transmission error may occur.**

Maximum wiring length: 1000 m or less
Total wiring length: 2000 m or less
Maximum number of branches: 9

**Cautions on the wiring among units**

- Never connect 220V to the terminal block of the interconnecting wiring.
  Doing so will break the entire system.
- The wiring from the indoor units must be connected to the F1/F2 (TO IN/D UNIT) terminals on the PC board in the outdoor unit.
- After fixing a unit-to-unit cable inside a unit, wrap it along with the onsite refrigerant pipes with a finishing tape as shown in the figure below.




* Make sure to use shielded two-core cables of 0.75 to 1.25 $mm^2$ in the wiring shown above.
(For the grounding method of the shielded area, refer to the figure.)

* **All cables used in the wiring among the units should be procured in the local field.**

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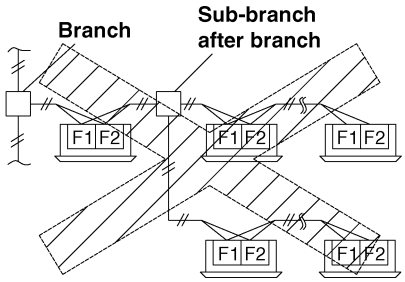
**Caution on branches in the wiring among units**

- **Up to 9 branches are available in the wiring among units. However, sub-branch after branch is not allowed.**



# 7. Checks After Completion of Work

**After completing the work, make sure to confirm the following items:**

1. Connection of drain piping and removal of transport fittings:
   Refer to **"Cautions on Installation"**.
2. Wiring of power cables and tightening of screws:
   Refer to **"Power Cable Connection Procedure"**.
3. Wiring of unit-to-unit cables and tightening of screws:
   Refer to **"Unit-to-unit Cable Connection Procedure"**.
4. Refrigerant piping
   Refer to **"Refrigerant Piping Work"**.
5. Piping size and heat insulation:
   Refer to **"Selection of Piping Material", "Heat Insulation of The Piping"**.
6. Check of shutoff valve:
   Confirm that the shutoff valve is open on both the liquid side and gas side.
7. Record of refrigerant quantity charged additionally:
   Record the quantity in **"Additional Refrigerant Quantity"** on the [Cautions on servicing] nameplate.
8. Measurement of insulation in major power circuit:
   - Use the megatester for 500 V.
   - Do not use any megatester for weak electric circuits except 220 V.
     (Wiring between the outdoor unit and the indoor unit)

**Caution**

**<To piping technician>**

- **Make sure to open the shutoff valve after finishing the piping work.**
  **(Operating the air conditioner with the shutoff valve shut may damage the compressor.)**

## 7.1 Test Run Procedure

**A crankcase heater is mounted for smooth startup. Make sure to turn on the power 6 hours before start of operation for supplying the power to the crankcase heater.**

**Warning**

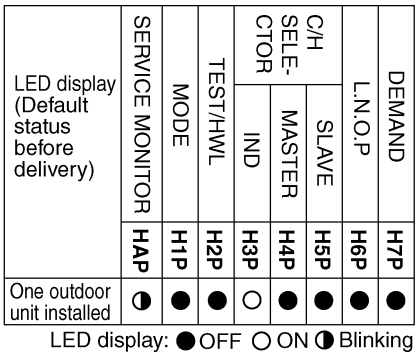
**Make sure to close the outer plate before leaving the outdoor unit in the power ON status.**

**Cautions before turning on the power**

- **Put the insulating cover securely onto the electric parts box before turning on the power.**
- **After turning on the power, check the settings and LED indicators on the PC board (A1P) in the outdoor unit from the opening of the insulating cover.**

## 7.1.1 Power on and Check Operation

- Make sure to perform the check operation after installation. (If the air conditioner is operated using the indoor remote controller without performing the check operation, the malfunction code “U3” is displayed in the indoor remote controller, and normal operation is disabled.)
- In the check operation, the status of the outdoor unit is checked, and incorrect wiring is checked for.

<table>
<tr><td>(1) • Close the outer plate of the outdoor unit.<br>• Turn ON the power to the outdoor units and indoor units.</td><td>⚠ Caution<br>Make sure to turn on the power 6 hours before start of operation for supplying the power to the crankcase heater.</td></tr>
<tr><td>(2) • Open the outer plate of the outdoor unit.<br>• Check the LED on the P-board (A1P) in the outdoor unit to see if the data transmission is performed normally.<br> 

LED display: ● OFF ○ ON ◑ Blinking</td><td>The power is supplied to the outdoor unit.<br>Take due care during the work to prevent electric shock.</td></tr>
<tr><td>(3) • When performing the low-noise operation (L.N.O.P.) or demand (DEMAND) operation upon request from the customer, perform the setting using the pushbutton switches (BS1 to BS5) on the PC board (A1P) in the outdoor unit.<br>• Press each pushbutton switch from the opening of the insulation cover. (Do not remove the insulation cover.)</td><td>• The power is supplied to the outdoor unit. Take due care during the work to prevent electric shock.<br>• Before using the pushbutton switches (BS1 to BS5) for setting, confirm that the microcomputer (SERVICE) monitor is lit.<br>• For the setting method, refer to the [Service Precautions] label attached on the front panel of the outdoor unit.<br>(Make sure to write the contents of setting on the [Service Precautions] label.)<br>• Do not touch the DIP switches (DS1 and DS2) because their settings are not required. If they are touched, the unit may fail.</td></tr>
<tr><td>(4) Confirm that the shutoff valve is open on both the liquid side and gas side. If it is closed, open it.</td><td>⚠ Caution<br>Do not leave any shutoff valve closed.<br>Otherwise the compressor will fail.</td></tr>
<tr><td>(5) Press and hold the test run button (BS4) for 5 seconds or more to start the check operation.<br>For the details, refer to the<br>Check Operation Procedure<br>described on the [Service Precautions] label.</td><td>• When leaving the outdoor unit during the check operation for unavoidable reasons, ask another installation worker to watch the outdoor unit, or close the outer plate.<br>• The system operates the check operation for about 15 minutes (30 minutes maximum), then stops automatically.<br>The system can start normal operation about 5 minutes after the check operation if the remote controller does not display any error code.<br>• During the check operation, the status under execution is indicated on the remote controller.</td></tr>
<tr><td colspan="2">(6) After the check operation, make sure to close the outer plate of the outdoor unit.</td></tr>
</table>

**<Cautions on check operation>**

- If the air conditioner is started within about 12 minutes after the power of the indoor/outdoor unit is turned on, the H2P indicator lights and the compressor does not run.
  Confirm that the LED status is as shown in the table in (2) in **“Power on and check operation”** before starting the air conditioner.
- The air conditioner may require about 10 minutes maximum until it can start the compressor after start of operation.
  This period of time is required to homogenize the refrigerant status, and does not indicate any failure.
- The check operation does not provide any means of checking the indoor units individually. For that purpose, perform the normal operation using the remote controller after finishing the check operation.
- The check operation is not available in any other mode such as the recovery mode.

## 7.1.2 Checks in Normal Operation

**<Set the master unit (= indoor unit having the right to select the cooling/heating operation mode).>**

**In the case of wired remote controllers**

- After the check operation, **"CHANGEOVER UNDER CONTROL"** is flashing in all connected remote controllers.
- Select an indoor unit to be used as the master unit in accordance with the request from the customer. (It is recommended to select an indoor unit which will be used most often as the master unit.)
- Press the operation mode selector button in the remote controller of the indoor unit selected as the master unit.
- In that remote controller, **"CHANGEOVER UNDER CONTROL"** disappears. That remote controller will control changeover of the cooling/heating operation mode.
- In other remote controllers, **"CHANGEOVER UNDER CONTROL"** lights.

**In the case of wireless remote controllers**

- After the check operation, the timer lamp is flashing in all connected indoor units.
- Select an indoor unit to be used as the master unit in accordance with the request from the customer. (It is recommended to select an indoor unit which will be used most often as the master unit.)
- Press the operation selector mode button in the remote controller of the indoor unit selected as the master unit. A "peep" sound is issued, and the timer lamp turns off in all indoor units.
- That indoor unit will control changeover of the cooling/heating operation mode.

**For the details, refer to the instruction manual supplied together with the indoor unit.**

- After finishing the check operation, operate the air conditioner normally. (Heating is not available if the outside air temperature is 24 °C or more. Refer to the operation manual supplied together with the unit.)
- Confirm that the indoor and outdoor units are operating normally. (If a knocking sound is heard in the liquid compression of the compressor, stop the air conditioner immediately, energize the crankcase heater for a sufficient period of time, then start the operation again.)
- Run the indoor unit one by one in turn, and confirm that the corresponding outdoor unit is running.
- Check to see if cold (or hot) air is coming out of the indoor unit.
- Press the fan direction button and fan strength button on the indoor unit to see if the fan is operating normally.

**<Cautions for normal operation check>**

- Once stopped, the compressor will not start for about 5 minutes even if the **"ON/OFF"** button on the remote controller is pressed.
- When the system operation is stopped by the remote controller, the outdoor units may continue operating for further 3 minutes at maximum.
- If the system has not undergone any check operation by the test operation button since it was first installed, an error code "U3" is displayed. In this case, perform check operation referring to **"Power on and check operation"**.

**When a malfunction code is displayed in the remote controller**

(Check a malfunction code in the remote controller connected to the indoor unit.)

| Malfunction code | Nonconformity during installation | Remedial action |
|---|---|---|
| E3 | The shutoff valves in the outdoor unit remain closed. | Open the shutoff valve on both the gas side and liquid side. |
| | The refrigerant is overcharged. | Calculate again the required quantity of refrigerant to be charged based on the piping length, recover the refrigerant using the refrigerant recovery device, then achieve proper quantity of refrigerant. |
| E4<br>F3 | The shutoff valves in the outdoor unit remain closed. | Open the shutoff valve on both the gas side and liquid side. |
| | The refrigerant is insufficient. | • Check whether additional refrigerant charge has been finished correctly.<br>• Calculate again the required quantity of refrigerant to be charged based on the piping length, then charge additionally proper quantity of refrigerant. |
| U3 | The check operation is not performed. | Perform the check operation. |
| U4 | The power is not supplied to the outdoor unit. | Connect correctly the power cable of the outdoor unit. |
| UA | Improper type of indoor units are connected. | Check the type of indoor units currently connected. If they are not proper, replace them with proper ones. |
| UF | The shutoff valves in the outdoor unit remain closed. | Open the shutoff valve on both the gas side and liquid side. |
| | The piping and wiring of the specified indoor unit are not connected correctly to the outdoor unit. | Confirm that the piping and wiring of the specified indoor unit are connected correctly to the outdoor unit. |
| UH | The unit-to-unit wirings are not connected correctly. | Connect correctly the unit-to-unit wirings to the F1 and F2 (TO IN/D UNIT) terminals on the PC board (A1P) in the outdoor unit. |

**When nothing is displayed in the remote controller**

- It is estimated that there is a problem in the connection or communication between the indoor unit and the remote controller.
  Check connections, and check for wire breakage.

**Caution**

**<To piping technician>**
**<To electrician>**

- **After finishing the test run and before delivering the air conditioner to the customer, confirm that the outer plates and screws are attached securely to the units.**

# Part 5
# Control

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# 1. Control System

### Operation Control System Optional Accessories

| No. | Item / Type | | | FXC | FXF | FXK | FXD | FXYD | FXS | FXYB | FXM | FXH | FXA | FXL FXN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Remote controller | Wireless | H/P | BRC7C62 | BRC7E61W | BRC4C61 | BRC4C62 | | | | | BRC7E63W | BRC7E618 | BRC4C62 |
| | | | C/O | BRC7C67 | BRC7E65 | BRC4C63 | BRC4C64 | | | | | BRC7E66 | BRC7E619 | BRC4C64 |
| | | Wired | | BRC1A61 | | | BRC1A62 | | | | | BRC1A61 | | BRC1A62 |
| 2 | Set back time clock | | | BRC15A61 | | | | | | | | | | |
| 3 | Simplified remote controller | | | — | | | BRC2A51 | | | | | — | | BRC2A51 |
| 4 | Remote controller for hotel use | | | — | | | BRC3A61 | | | | | — | | BRC3A61 |
| 5 | Adaptor for wiring | | | ★KRP1B61 | ★KRP1B59 | KRP1B61 | KRP1B56 | KRP1B61 | | | | KRP1B3 | — | KRP1B61 |
| 6-1 | Wiring adaptor for electrical appendices (1) | | | ★KRP2A61 | ★KRP2A62 | KRP2A61 | KRP2A53 | KRP2A61 | | | | ★KRP2A62 | ★KRP2A61 | KRP2A61 |
| 6-2 | Wiring adaptor for electrical appendices (2) | | | ★KRP4A51 | ★KRP4A53 | KRP4A51 | KRP4A54 | KRP4A51 | | | | ★KRP4A52 | ★KRP4A51 | KRP4A51 |
| 7 | Remote sensor | | | KRCS01-1 | — | KRCS01-1 | | | | | | | | |
| 8 | Installation box for adaptor PCB | | | Note 2, 3 KRP1B96 | Note 2, 3 KRP1D98 | — | KRP1B101 | Note 4 KRP1B100 | Note 4 KRP4A91 | — | | Note 3 KRP1C93 | Note 2, 3 KRP4A93 | — |
| 9 | Central remote controller | | | DCS302C61 | | | | | | | | | | |
| 9-1 | Electrical box with earth terminal (3 blocks) | | | KJB311A | | | | | | | | | | |
| 10 | Unified on/off controller | | | DCS301B61 | | | | | | | | | | |
| 10-1 | Electrical box with earth terminal (2 blocks) | | | KJB212A | | | | | | | | | | |
| 10-2 | Noise filter (for electromagnetic interface use only) | | | KEK26-1 | | | | | | | | | | |
| 11 | Schedule timer | | | DST301B61 | | | | | | | | | | |
| 12 | External control adaptor for outdoor unit (Must be installed on indoor units) | | | ★ DTA104A61 | ★ DTA104A62 | DTA104A61 | DTA104A53 | DTA104A61 | | | | ★ DTA104A62 | ★ DTA104A61 | DTA104A61 |

**Note**

1. Installation box (No.8) is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Installation box (No. 8) is necessary for second adaptor.

### Various PC Boards

| No. | Part name | Model No. | Function |
|---|---|---|---|
| 1 | Adaptor for wiring | KRP1B61<br>KRP1B56, 59<br>KRP1B3 | ■ PC board when equipped with auxiliary electric heater in the indoor unit. |
| 2 | DIII-NET Expander Adaptor | DTA109A51 | ■ Up to 1024 units can be centrally controlled in 64 different groups.<br>■ Wiring restrictions (max. length: 1000m, total wiring length: 2000m, max. number of branches: 16) apply to each adaptor. |

### System Configuration

| No. | Part name | Model No. | Function |
|---|---|---|---|
| 1 | Central remote controller | DCS302C61 | ■ Up to 64 groups of indoor units (128 units)can be connected, and ON/OFF, temperature setting and monitoring can be accomplished individually or simultaneously. Connectable up to “2” controllers in one system. |
| 2 | Unified ON/OFF controller | DCS301B61 | ■ Up to 16 groups of indoor units (128 units) can be turned, ON/OFF individually or simultaneously, and operation and malfunction can be displayed. Can be used in combination with up to 8 controllers. |
| 3 | Schedule timer | DST301B61 | ■ Programmed time weekly schedule can be controlled by unified control for up to 64 groups of indoor units (128 units). Can turn units ON/OFF twice per day. |
| 4 | Unification adaptor for computerized control | ★DCS302A52 | ■ Interface between the central monitoring board and central control units |
| 5 | Interface adaptor for SkyAir-series | ★DTA102A52 | ■ Adaptors required to connect products other than those of the VRV System to the high-speed DIII-NET communication system adopted for the VRV System.<br>■ To use any of the above optional controllers, an appropriate adaptor must be installed on the product unit to be controlled. |
| 6 | Central control adaptor kit | ★DTA107A55 | |
| 7 | Wiring adaptor for other air-conditioner | ★DTA103A51 | |
| 8 | DIII-NET Expander adaptor | DTA109A51 | ■ Up to 1,024 units can be centrally controlled in 64 different groups.<br>■ Wiring restrictions (max. length : 1,000m, total wiring length : 2,000m, max. number of branches : 16) apply to each adaptor. |
| 9 | Mounting plate | KRP4A92 | ■ Fixing plate for DTA109A51 |

**Note:**

Installation box for ★ adaptor must be procured on site.

## Building management system

| No. | Part name | | | Model No. | Function |
|---|---|---|---|---|---|
| 1 | intelligent Touch Controller | | Without PPD | DCS601B51 | Air-Conditioning management system that can be controlled by a compact all-in-one unit.<br>PPD: Power Proportional Distribution function<br>New Functions: • Auto cool/heat change-over •Temperature limitation<br>• Multilingual (English, French, German, Spanish, Italian, or Chinese) |
| | | | With PPD | DCS601B51<br>DCS002B51 | |
| 1-1 | Electrical box with earth terminal (4blocks) | | | KJB411A | ■ Wall embedded switch box. |
| 2 | intelligent Manager ECO 21 | Number of units to be connected | 128 units | DAM602A52 | Air conditioner management system (featuring minimized engineering) that can be controlled by personal computers. |
| | | | 192 units | DAM602A53 | |
| | | | 256 units | DAM602A51 | |
| | | | 512 units | DAM602A51x2 | |
| | | | 768 units | DAM602A51x3 | |
| | | | 1024 units | DAM602A51x4 | |
| 2-1 | Communication Line | Optional DIII Ai unit | | DAM101A51 | Analog input for "sliding temperature" function (to reduce cold shock) for intelligent Manager ECO21. |
| 3 | | BACnet Gateway | | DMS502A51 | Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet communications. |
| 3-1 | | Optional DIII board | | DAM411A1 | Expansion kit, installed on the BACnet Gateway (DMS502A51), to provide 3 more DIII-NET communication ports. Not usable independently. |
| 3-2 | | Optional Di board | | DAM412A1 | Expansion kit, installed on the BACnet Gateway (DMS502A51), to provide 16 more wattmeter pulse input points. Not usable independently. |
| 4 | | DMS-IF (for use in LON WORKS® networks) | | DMS504B51 | Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LON WORKS® communication. |
| 5 | Contact/analog signal | Parallel interface | Basic unit | DPF201A51 | ■ Enables ON/OFF command, operation and display of malfunction; can be used in combination with up to 4 units. |
| 6 | | | Temperature measurement units | DPF201A52 | ■ Enables temperature measurement output for 4 groups; 0-5VDC. |
| 7 | | | Temperature setting units | DPF201A53 | ■ Enables temperature setting input for 16 groups; 0-5VDC. |
| 8 | | Unification adaptor for computerized control | | DCS302A52 | ■ Interface between the central monitoring board and central control units |
| 9-1 | | Wiring adaptor for electrical appendices (1) | | KRP2A61, 62 | ■ Simultaneously controls air-conditioning control computer and up to 64 groups of indoor units. |
| 9-2 | | Wiring adaptor for electrical appendices (2) | | KRP4A51-53 | ■ To control the group of indoor units collectively, which are connected by the transmission wiring of remote controller. |
| 10 | | External control adaptor for outdoor unit (Must be installed on indoor units.) | | DTA104A61, 62 | ■ Cooling/Heating mode change over. Demand control and Low noise control are available between the plural outdoor units. |

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Please refer to Option Handbook etc. for detail.

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# Part 6
# Guide Specifications

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# 1. Guide Specifications

## 1.1 Guide Specifications

**General**

Unit shall be air cooled, split type multi-system air conditioner consisting of one outdoor unit and plural indoor units, each having capability to cool or heat independently for the requirements of the rooms.
Up to 12 different type and 0.8-10HP capacity indoor units can be connected to one refrigerant circuit and controlled individually.
Compressor shall be equipped with inverter controller, and capable of changing the rotating speed to follow variations in cooling and heating load.
Outdoor unit shall be suitable for mix-match connection of following models.

- Ceiling mounted cassette type (Double flow)
- Ceiling mounted cassette type (Multi flow)
- Ceiling mounted cassette corner type
- Slim Ceiling mounted duct type
- Ceiling mounted low silhouette duct type
- Ceiling mounted built-in type
- Ceiling mounted built-in type (Rear suction)
- Ceiling mounted duct type
- Ceiling suspended type
- Wall mounted type
- Floor standing type
- Concealed floor standing type

- Refrigerant : R22

### 1.1.1 M Series Outdoor Unit

The refrigerant piping shall be extended up to 120m with 50m (★1) level difference without any oil traps.

- Air conditioner shall operate continuously at the ambient temperature of -5°C in cooling -15°C in heating (Operative Range: -20°C).
  Both indoor unit outdoor unit are assembled, tested, and charged with refrigerant at the factory.
  ★1: The value is based on the case where the outdoor unit is located above indoor unit. Where the outdoor unit is located under the indoor unit, the level difference is a maximum of 40m.

**Outdoor Unit**

The outdoor unit shall be a factory assembled unit housed in a sturdy weatherproof casing constructed form rust-proofed mild steel panels coated with a baked enamel finish.

- The connectable range of indoor units shall be from 0.8 to 10HP with all outdoor units.
- The noise level shall not be more than 51 dB(A) (in case of 4HP, cooling) at normal operation measured horizontally 1m away and 1.5m above ground.
  The outdoor unit shall be modular in design and should be allowed for side by side installation.

**Compressor**

The compressor shall be of highly efficient hermetic scroll type and equipped with inverter control capable of changing the speed in accordance to the cooling or heating load requirement.

- The outdoor unit shall have the multi-step of capacity control to meet load fluctuation and indoor unit individual control.

**Heat Exchanger**

The heat exchanger shall be constructed with copper tubes mechanically bonded to aluminium fins to form a cross fin coil.

- The aluminium fins shall be covered by anti-corrosion resin film.

**Refrigerant Circuit**

The refrigerant circuit shall include liquid and gas shut off valves and a solenoid valves.
All necessary safety devices shall be provided to ensure the safety operation of the system.

**Safety Devices**
The following safety devices shall be part of the outdoor unit.
High Pressure Switch, Fan Driver Overload Protector, Inverter Overload Protector, Fusible Plugs, Fuse.

## 1.1.2 Indoor Units

Each indoor unit shall be of the ceiling mounted cassette type (Double flow type), or ceiling mounted cassette type (Multi-flow type), slim ceiling mounted duct type, ceiling mounted low silhouette duct type or ceiling mounted built-in type, ceiling mounted built-in type (Rear suction) or ceiling mounted duct type, or ceiling suspended type, or floor standing type, or concealed floor standing type, or wall mounted type, or ceiling mounted cassette corner type. It shall have electronic control valve which control refrigerant flow rate in respond to load variations of the room. The fan shall be of the dual suction multi blade type and statically and dynamically balanced to ensure low noise and vibration free operation.

- The address of the indoor unit shall be set automatically in case of individual and group control.
- In case of centralized control, it shall be set by liquid crystal remote controller.

**Control**
Computerized PID control shall be used to maintain a correct room temperature.
Unit shall be equipped with a self-diagnosis for easy and quick maintenance and service.
The LCD (Liquid Crystal Display) remote controller shall memorize the latest malfunction code for easy maintenance.

- It shall be able to control up to 16 indoor units and change fan speed and angle of swing flap individually in the group.

**Central Remote Controller (Option)**
A multi-functional centralized controller (central remote controller) shall be supplied as optional accessory.

- It shall be able to control up to 64 zones of 64 groups (each group consists of Max. 16 units) or 128 No.s of indoor units with the following functions.
  a) Temperature setting for each zone, or group, or indoor unit.
  b) On / off as a zone or individual unit.
  c) Indication of operating condition.
  d) Select one of 10 operation modes for each zone.
- The controller shall have wide screen liquid crystal display and can be wired by a non-polar 2-wire transmission cable to a distance of 1 km away from the indoor unit.

**Unified ON / OFF Controller (Option)**
Unified ON / OFF controller shall be supplied as optional accessory.
It shall be able to control up to 16 groups (each group consists of Max. 16 indoor units) or 128 No.s of indoor units with the following functions.
a) On/off as a zone or individual unit.
b) Indication of operation condition of each group.
c) Select one of 4 operation modes.

It shall be wired by a non-polar 2-wire transmission cable to a distance of 1 km away from indoor unit.

**Schedule Timer (Option)**
A schedule timer shall be supplied as optional accessory.

- It shall be able to set operation schedule of up to 128 No.s of indoor units.
  The operation schedule shall include twice on/off a day and holiday.
- It shall be able to set 8 pattern of schedule combined with centralized controller.

**Intelligent Touch Controller (Option)**
Air-Conditioning management system that can be controlled by a compact all-in-one unit.

**Intelligent Manager (Option)**
Air conditioner management system (featuring minimized engineering) that can be controlled by personal computers.

# 2. Caution for Refrigerant Leaks

**(Points to note in connection with refrigerant leaks)**

**Introduction**

**The installer and system specialist shall secure safety against leakage according to local regulations or standards. The following standards may be applicable if local regulations are not available.**

The VRV System, like other air conditioning systems, uses R22 as refrigerant. R22 itself is an entirely safe non-toxic, non-combustible refrigerant. Nevertheless care must be taken to ensure that air conditioning facilities are installed in a room which is sufficiently large. This assures that the maximum concentration level of refrigerant gas is not exceeded, in the unlikely event of major leak in the system and this in accordance to the local applicable regulations and standards.

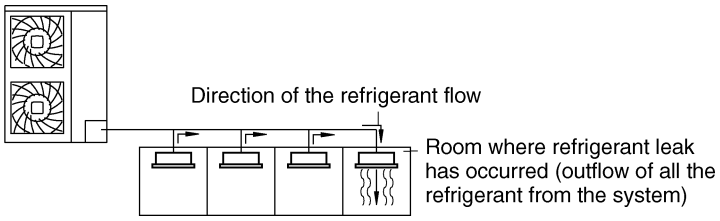
**Maximum concentration level**

The maximum charge of refrigerant and the calculation of the maximum concentration of refrigerant is directly related to the humanly occupied space in to which it could leak.

The unit of measurement of the concentration is kg/$m^3$ (the weight in kg of the refrigerant gas in 1$m^3$ volume of the occupied space).

Compliance to the local applicable regulations and standards for the maximum allowable concentration level is required.

In Japan the maximum allowed concentration level of refrigerant to a humanly space for R22 is limited to 0.3 kg/$m^3$.




**Pay a special attention to the place, such as a basement, etc. where refrigerant can stay, since refrigerant is heavier than air.**

**Procedure for checking maximum concentration**

Check the maximum concentration level in accordance with steps 1 to 4 below and take whatever action is necessary to comply.

1. Calculate the amount of refrigerant (kg) charged to each system separately.

amount of refrigerant in a single unit system (amount of refrigerant with which the system is charged before leaving the factory) + additional charging amount (amount of refrigerant added locally in accordance with the length or diameter of the refrigerant piping) = total amount of refrigerant (kg) in the system

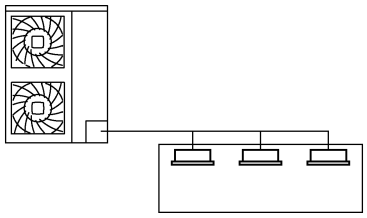
**Note**

- Where a single refrigerant facility is divided into 2 entirely independent refrigerant systems then use the amount of refrigerant with which each separate system is charged.

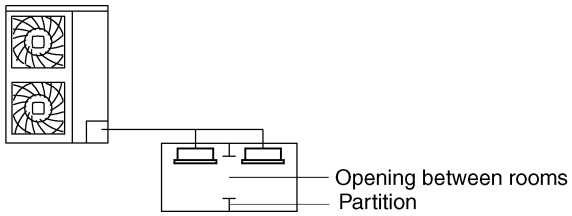
2. Calculate the smallest room volume ($m^3$)

   Incase like the following, calculate the volume of (A), (B) as a single room or as the smallest room.

   **A.**Where there are no smaller room divisions



**B.**Where there is a room division but there is an opening between the rooms sufficiently large to permit a free flow of air back and forth.




(Where there is an opening without a door or where there are openings above and below the door which are each equivalent in size to 0.15% or more of the floor area.)

3. Calculating the refrigerant density using the results of the calculations in steps 1 and 2 above.

$$\frac{\text{total volume of refrigerant in the refrigerant system}}{\text{size } (m^3) \text{ of smallest room in which there is an indoor unit installed}} \leq \text{maximum concentration level } (kg/m^3)$$

If the result of the above calculation exceeds the maximum concentration level then make similar calculations for the second then third smallest room and so until the result falls short of the maximum concentration.

4. Dealing with the situations where the result exceeds the maximum concentration level.
Where the installation of a facility results in a concentration in excess of the maximum concentration level then it will be necessary to revise the system.
Please consult your Daikin supplier.

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# 3. Safety Devices Setting

| | Safety devices | | 20 | 25 | 32 | 40 | 50 | 63 | 80(71) | 100 | 125 | 200 | 250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FXC~LVE | PC board fuse | | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | — | 250V 5A | — | — |
| | Fan motor thermal fuse | °C | 152±2 | 152±2 | 152±2 | 152±2 | 152±2 | — | — | — | — | — | — |
| | Fan motor thermal protector | °C | OFF:130±5 (ON:90±15) | OFF:130±5 (ON:90±15) | OFF:130±5 (ON:90±15) | — | — | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | — | OFF:135±8 (ON:87±15) | — | — |
| | Drain pump thermal fuse | °C | 169 | 169 | 169 | 169 | 169 | 169 | 169 | — | 169 | — | — |
| FXF~LVE | PC board fuse | | — | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | — | — |
| | Fan motor thermal fuse | °C | — | — | — | — | — | — | — | — | — | — | — |
| | Fan motor thermal protector | °C | — | — | — | — | — | — | — | — | — | — | — |
| FXK~LVE | PC board fuse | | — | 250V 5A | 250V 5A | 250V 5A | — | 250V 5A | — | — | — | — | — |
| | Fan motor thermal fuse | °C | — | 146±3 | 146±3 | — | — | — | — | — | — | — | — |
| | Fan motor thermal protector | °C | — | — | — | OFF:120±5 ON:105 or less | — | OFF:120±5 ON:105 or less | — | — | — | — | — |
| | Drain pump thermal fuse | °C | — | 145 | 145 | 145 | — | 145 | — | — | — | — | — |
| FXD~M | PC board fuse | °C | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | 250V 5A | — | — | — | — | — |
| | Fan motor thermal protector | °C | OFF:130±5 ON:83±15 | OFF:130±5 ON:83±15 | OFF:130±5 ON:83±15 | OFF:130±5 ON:83±15 | OFF:130±5 ON:83±15 | OFF:130±5 ON:83±15 | — | — | — | — | — |
| FXYD~ KAVE | PC board fuse | | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | — | — | — | — | — |
| | Fan motor thermal fuse | °C | — | — | — | — | — | — | — | — | — | — | — |
| | Fan motor thermal protector | °C | OFF:135±5 (ON:95±15) | OFF:135±5 (ON:95±15) | OFF:135±5 (ON:95±15) | OFF:135±5 (ON:95±15) | OFF:135±5 (ON:95±15) | OFF:135±5 (ON:95±15) | — | — | — | — | — |
| FXS~LVE | PC board fuse | | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | — | — |
| | Fan motor thermal fuse | °C | 152±2 | 152±2 | 152±2 | 152±2 | 152±2 | 152±2 | — | — | — | — | — |
| | Fan motor thermal protector | °C | — | — | — | — | — | — | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | — | — |
| | Drain pump thermal fuse | °C | 169 | 169 | 169 | 169 | 169 | 169 | 169 | 169 | 169 | — | — |
| FXYB~ KV1 | PC board fuse | | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | — | — |
| | Fan motor thermal fuse | °C | 152±2 | 152±2 | 152±2 | 152±2 | 152±2 | 152±2 | — | — | — | — | — |
| | Fan motor thermal protector | °C | — | — | — | — | — | — | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | — | — |
| | Drain pump thermal fuse | °C | 169 | 169 | 169 | 169 | 169 | 169 | 169 | 169 | 169 | — | — |
| FXM~LVE | PC board fuse | | — | — | — | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A |
| | Fan motor thermal fuse | °C | — | — | — | — | — | — | — | — | — | — | — |
| | Fan motor thermal protector | °C | — | — | — | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) | OFF:135±8 (ON:87±15) |
| FXH~LVE | PC board fuse | | — | — | 250V 5A | — | — | 250V 5A | — | 250V 5A | — | — | — |
| | Fan motor thermal fuse | °C | — | — | — | — | — | — | — | — | — | — | — |
| | Fan motor thermal protector | °C | — | — | OFF:130±5 ON:80±20 | — | — | OFF:130±5 ON:80±20 | — | OFF:130±5 ON:80±20 | — | — | — |
| FXA~L | PC board fuse | | 250V 3A | 250V 3A | 250V 3A | 250V 5A | 250V 5A | 250V 5A | — | — | — | — | — |
| | Fan motor thermal fuse | °C | — | — | — | — | — | — | — | — | — | — | — |
| | Fan motor thermal protector | °C | — | — | — | — | — | — | — | — | — | — | — |
| FXL~LVE | PC board fuse | | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | — | — | — | — | — |
| | Fan motor thermal protector | °C | OFF:135±10 ON:120 or less | OFF:135±10 ON:120 or less | OFF:135±10 ON:120 or less | OFF:135±10 ON:120 or less | OFF:135±10 ON:120 or less | OFF:135±10 ON:120 or less | — | — | — | — | — |
| FXN~LVE | PC board fuse | | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | 250V 10A | — | — | — | — | — |
| | Fan motor thermal protector | °C | OFF:135±10 ON:120 or less | OFF:135±10 ON:120 or less | OFF:135±10 ON:120 or less | OFF:135±10 ON:120 or less | OFF:135±10 ON:120 or less | OFF:135±10 ON:120 or less | — | — | — | — | — |

The air conditioners manufactured by Daikin Industries have received **ISO 9000 series** certification for quality assurance.

**Certificate Number.**
(ISO9001) **JMI-0107** (ISO9002) **JQA-1452**
**JQA-0495**

The airconditioning factories of Daikin Industries have received environmental management system standard **ISO 14001** certification.

**Head Office / Tokyo Office**
Certificate Number. EC02J0355
**Shiga Plant**
Certificate Number. EC99J2044
**Sakai Plant**
Certificate Number. JQA-E80009
**Yodogawa Plant**
Certificate Number. EC99J2057

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