

# TECHNICAL MANUAL

## Split Systems Air Conditioner Ducted Blower D & E Series

**FDMP-D, FDYMP-D, FDP-D, FGP-D, FDYP-E, FGYP-E series**

**— Cooling only & Heatpump [50Hz] —**





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# Nomenclature

## Indoor

2 FDYP 150 E X Y1

**Refrigerant Circuit Number**

" " : One  
2 : Two

**Product Type**

FDMP : Ceiling Concealed C/O  
FDYMP : Ceiling Concealed H/P  
FDP : Ceiling Hang Ducted Blower C/O  
FDYP : Ceiling Hang Ducted Blower H/P  
FGP : Floor Standing Ducted Blower C/O  
FGYP : Floor Standing Ducted Blower H/P

**Size**

150 : 150,000 Btu/h  
200 : 200,000 Btu/h

**Power Supply**

V1: 1 Phase 50Hz 220-240V  
Y1: 3 Phase 50Hz 380-415V

**Product Origin**

X : OYLM

**Product series**

D : D Series  
E : E Series

## Outdoor

RCYP 150 E X Y1

**Product Type**

RCP : Single Split Condensing Unit C/O  
RCYP : Single Split Condensing Unit H/P

**Size**

100 : 100,000 Btu/h  
150 : 150,000 Btu/h

**Product series**

D : D Series  
E : E Series

**Power Supply**

V1: 1 Phase 50Hz 220-240V  
Y1: 3 Phase 50Hz 380-415V

**Product Origin**

X : OYLM

**Product Line-Up**

**Indoor Unit**

**FDMP/FDP/FGP/FDYMP/FDYP/FGYP**

Nomenclature		Classification																
		PCB			Fin		Refrigerant Control	Handset					Air Discharge			Filter		Marking
		L208A	U1_SB125	SQ2.0	Hydrophilic Coated	Bare Aluminium	TXV	BRC51A62	BRC51A61	BRC51B64	BRC51B63	BRC51C61	Horizontal & Convertible	Horizontal & Non Convertible	Vertical & Convertible	Vertical & Non Convertible	Saranet	Washable Viledon
COOLING	FDMP75DXV1	X			X	X	X						X			X		X
	FDMP100DXV1	X			X	X	X						X			X		X
	FDP125DXY1		X		X	X			X				X				X	X
	FDP150DXY1		X		X	X			X				X				X	X
	2FDP150DXY1			X	X	X				X			X				X	X
	2FDP200DXY1			X	X	X					X			X			X	X
	2FGP250DXY1			X	X	X					X			X			X	X
	2FGP300DXY1			X	X	X					X			X			X	X
	4FGP400DXY1			X	X	X					X			X			X	X
	4FGP500DXY1			X	X	X					X			X			X	X
HEATPUMP	FDYMP75DXV1	X			X	X		X					X			X		X
	FDYMP100DXV1	X			X	X		X					X			X		X
	FDYP125EXY1		X		X	X				X			X				X	X
	FDYP150EXY1		X		X	X				X			X				X	X
	2FDYP150EXY1			X	X	X					X		X				X	X
	2FDYP200EXY1			X	X	X					X	X					X	X
	2FGYP250EXY1			X	X	X					X			X			X	X
	2FGYP300EXY1			X	X	X					X			X			X	X
	3FGYP300EXY1			X	X	X					X			X			X	X
	3FGYP350EXY1			X	X	X					X			X			X	X
	4FGYP400EXY1			X	X	X					X			X			X	X
	3FGYP450EXY1			X	X	X					X			X			X	X
	4FGYP500EXY1			X	X	X					X			X			X	X
	4FGYP600EXY1			X	X	X					X				X		X	X

**Outdoor Unit  
RCP/RCYP**

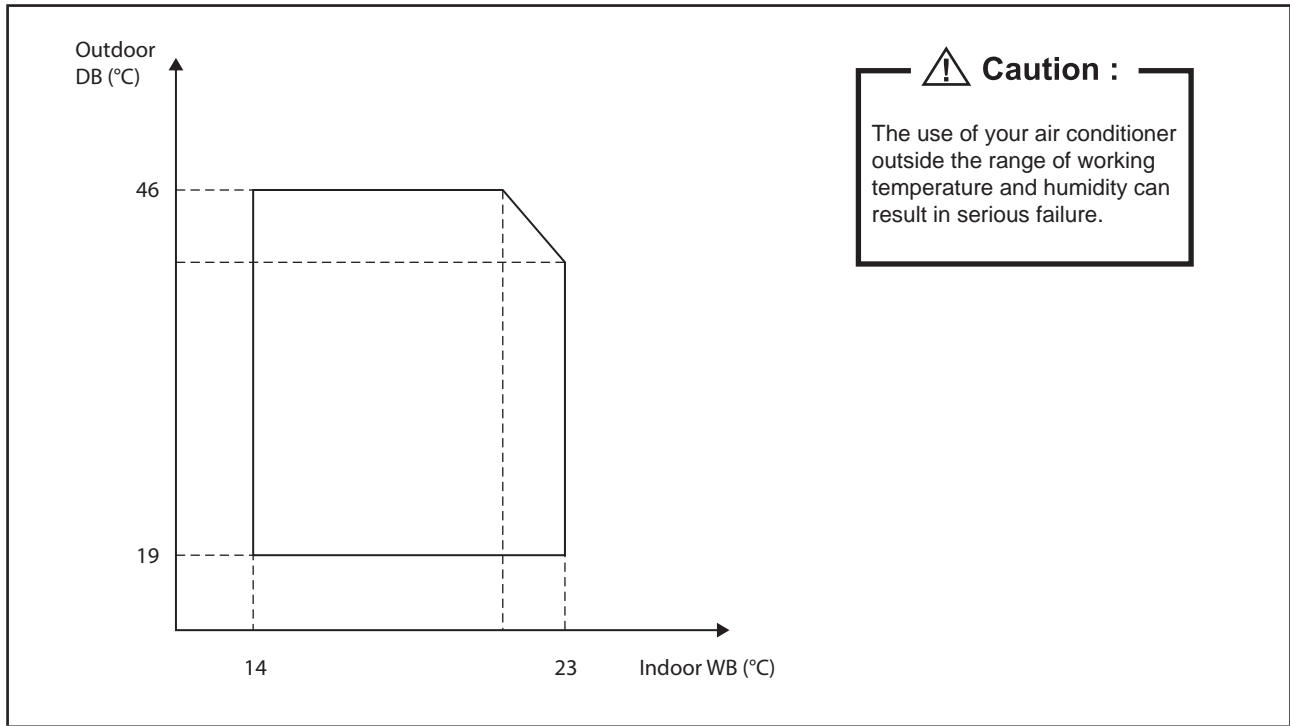
Nomenclature		Classification								
		Control		Fin		Refrigerant Control		Compressor	Marking	Others
		With Contactor	With HP/LP Switch/Sensor	Hydrophilic Coated	Bare Aluminium	TXV	W/out Expansion Device	Copeland Scroll	CE	With Accumulator
COOLING	RCP75DXY1	X	X		X		X	X	X	
	RCP100DXY1	X	X		X		X	X	X	
	RCP125DXY1	X	X		X		X	X	X	
	RCP150DXY1	X	X	X			X	X	X	X
HEATPUMP	RCYP75EXY1	X	X	X		X		X	X	X
	RCYP100EXY1	X	X	X		X		X	X	X
	RCYP125EXY1	X	X	X		X		X	X	X
	RCYP150EXY1	X	X	X		X		X	X	X

# Application Information

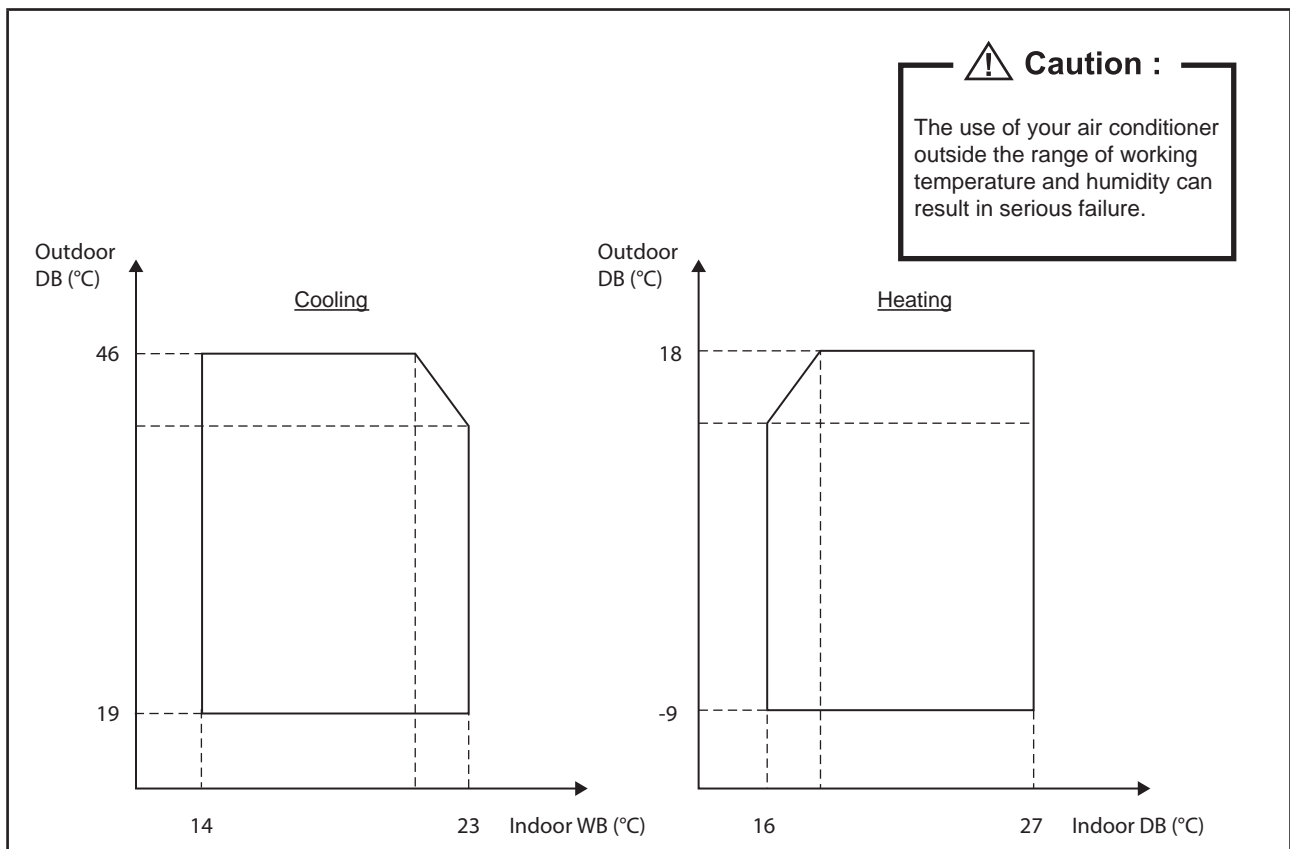
## Operating Range

Ensure the operating temperature is in allowance range.

### Cooling

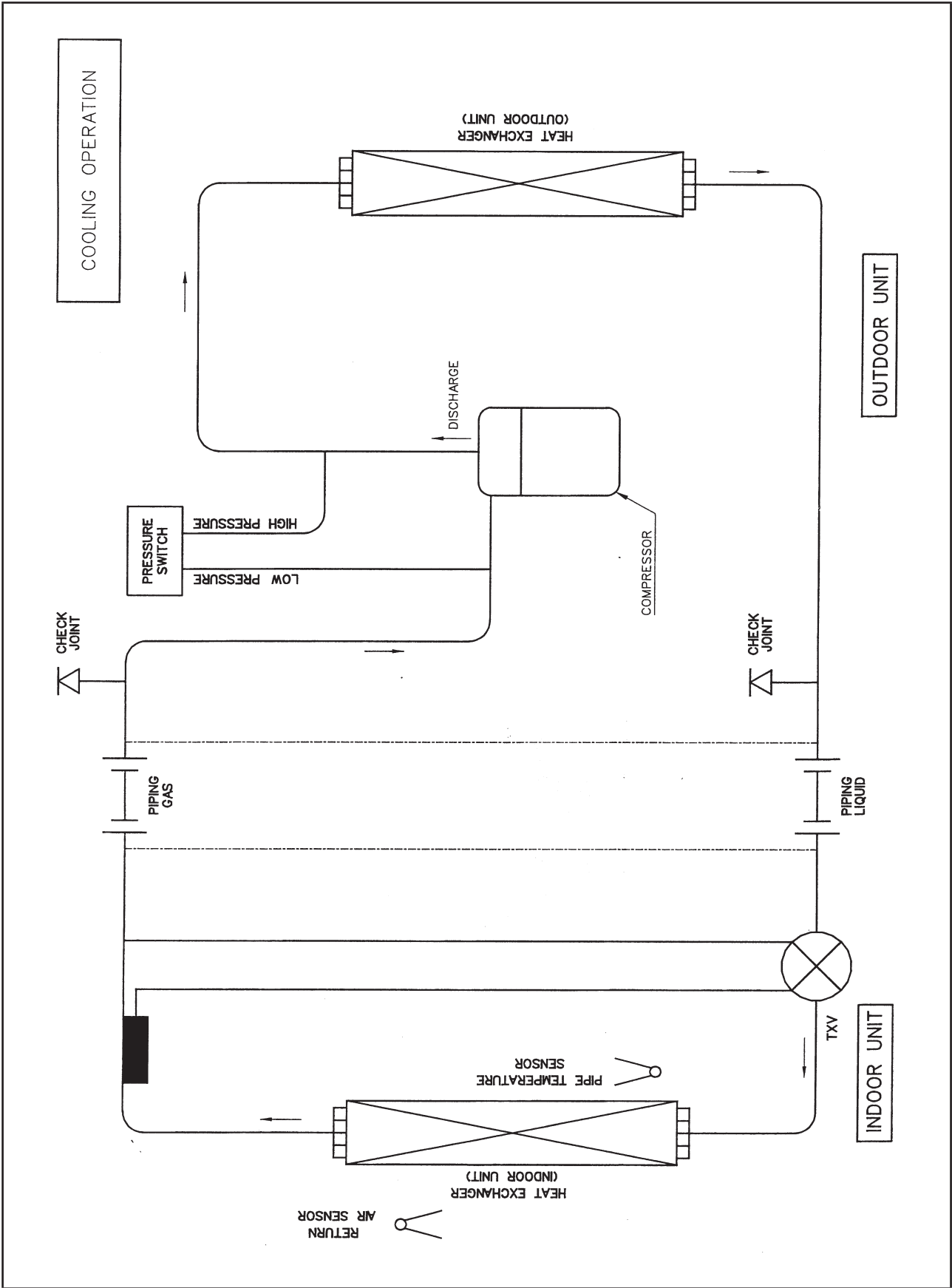


### Heating

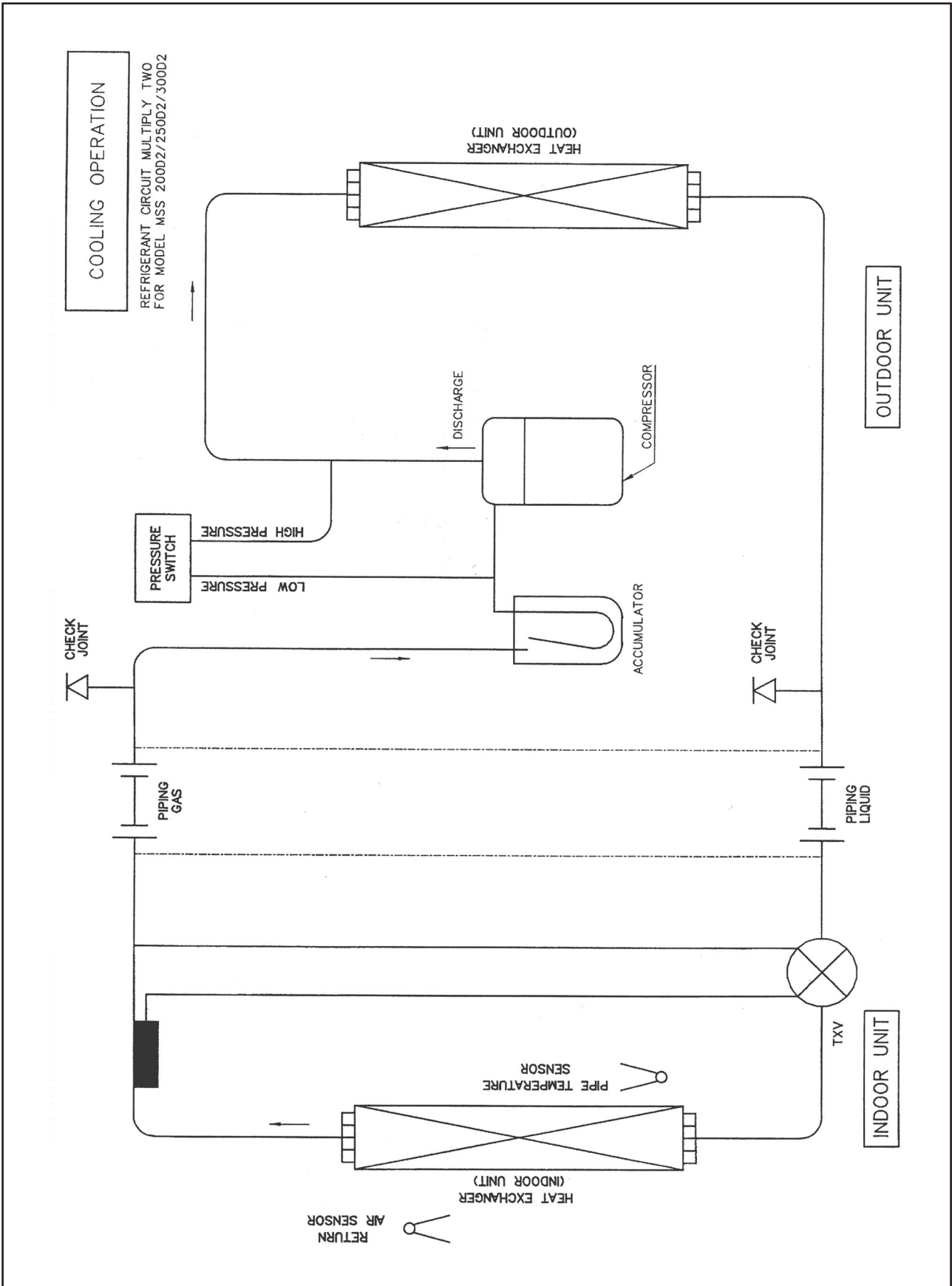


# Refrigerant Circuit Diagrams

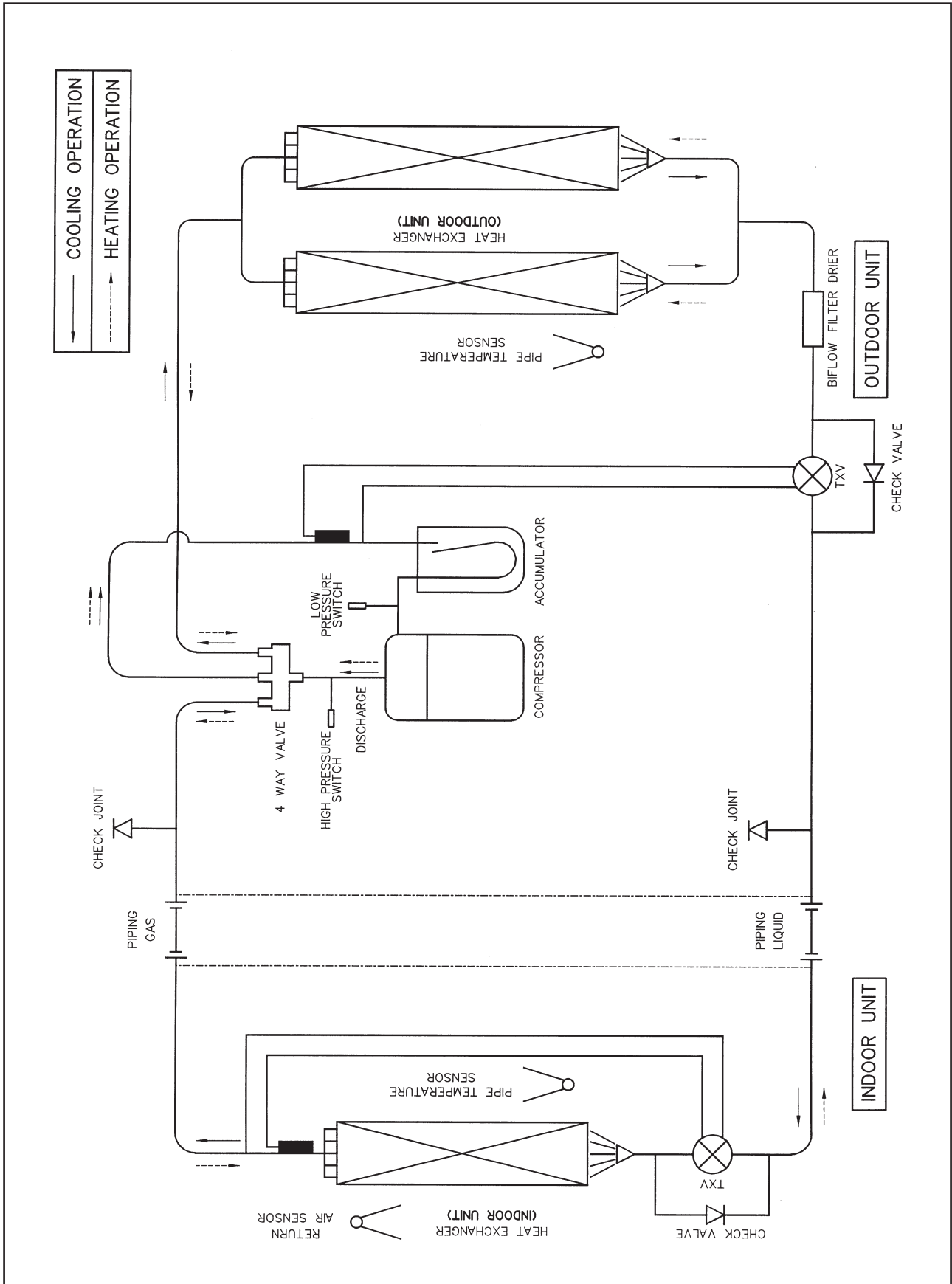
## Cooling Only Models



Model: RCP150DXY1 (with accumulator)



Heatpump Models



## Installation Guideline

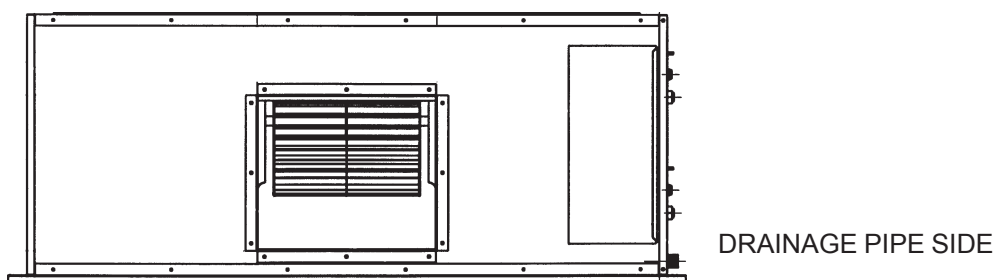
### INDOOR

#### PRELIMINARY SITE SURVEY

- Electrical supply and installation is to confirm to local authority's (e.g. National Electricity Board) codes and regulations.
- Voltage supply fluctuation must not exceed +/- 10% of rated voltage. Electricity supply line must be independent of welding transformers which can cause supply fluctuation.
- Ensure that the location is convenient for wiring and piping.

#### MOUNTING

- For ceiling mounted models, locate a position where piping and ducting work can be kept to a minimum. Ensure that overhead supports are strong enough to hold the unit's weight. Position hanger rods and check for alignment with the unit. Check that hangers are secure and that the base of fan-coil unit is level in two horizontal directions.



#### PIPINGS

Do not use contaminated or damaged copper tubings. If pipings, evaporator or condenser are exposed or had been opened for 15 seconds or more, vacuum and purge with field supplied refrigerant. Generally, do not remove plastic/rubber plugs/caps from fittings, tubings and coils until ready to connect suction or liquid line into fittings.

#### OPERATIONAL CHECK

After all electrical wiring is completed and the system is charged with refrigerant, make sure unit is operating properly. Check that:

- Condenser fans are running, with warm air blowing off the condenser coil.
- Evaporator blowers are running and discharging cool air.
- Suction line inside condensing unit feels cool.
- Liquid line inside condensing unit feels warm.

#### ELECTRICAL CONNECTION

As wiring regulations differ from country to country, please refer to your LOCAL ELECTRICAL CODES for field wiring regulations and ensure that these are complied with. Besides, observe the following general precautions:

- Ensure that the rated voltage of the unit corresponds to that of the name plate before commencing wiring work.
- Provide a power outlet to be used exclusively for each unit. A power supply disconnect and a circuit breaker for over-current protection should be provided in the exclusive line.
- The unit must be GROUNDED to prevent possible hazard due to insulation failure.
- All wiring must be firmly connected.
- Electrical wiring must not touch the refrigerant piping, compressor and any moving parts of the fan motors.

## INDOOR CLEARANCE

### Mounting

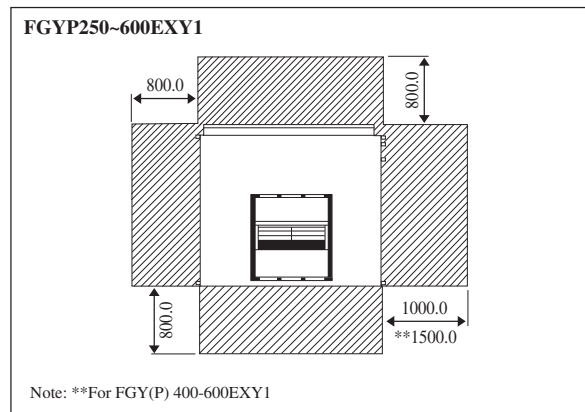
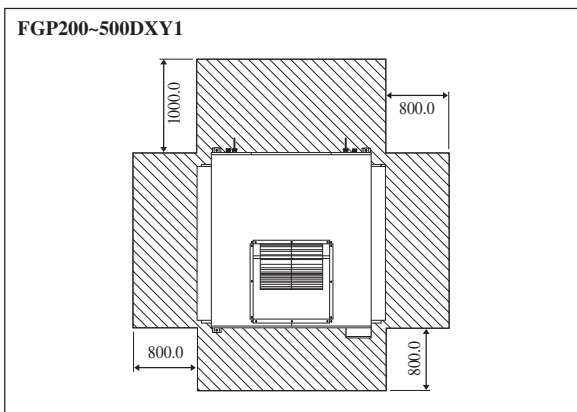
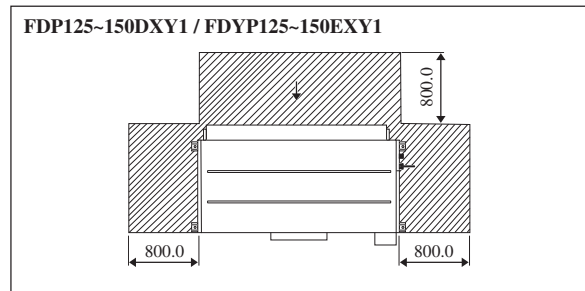
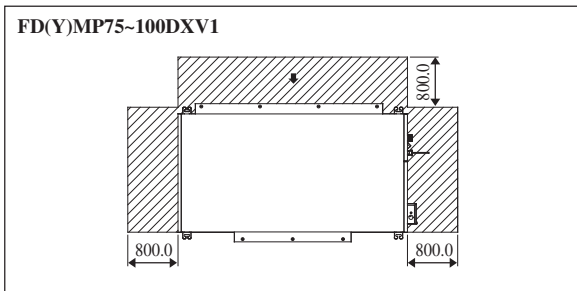
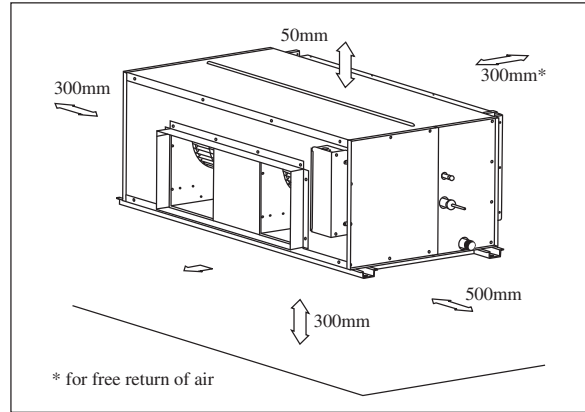
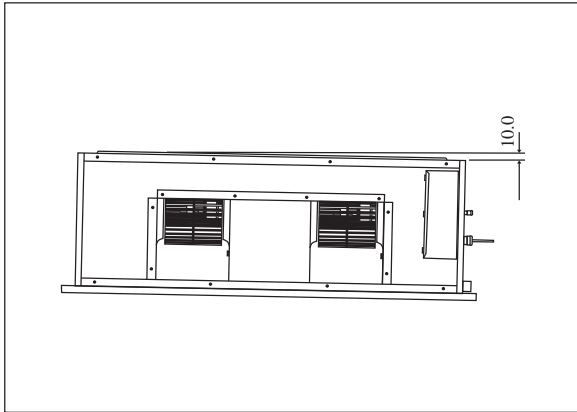
Ensure that the overhead supports are strong enough to hold the unit's weight. Position hanger rods and check for alignment with the unit. Check that hangers are secure and that the base of fan-coil unit is level in the two horizontal directions, taking into account the gradient recommended for drainage flow as shown.

Check the gradient recommended for drainage flow as follow.

Provide clearance for servicing and optimal air flow as shown in the diagram.

The indoor unit must be installed such that there is no short circuit of cool discharge with air discharge. Respect the installation clearance.

Do not put the indoor unit where there is direct sunlight on unit. The location is suitable for piping and drainage and it must be have a large distance between a door and unit.



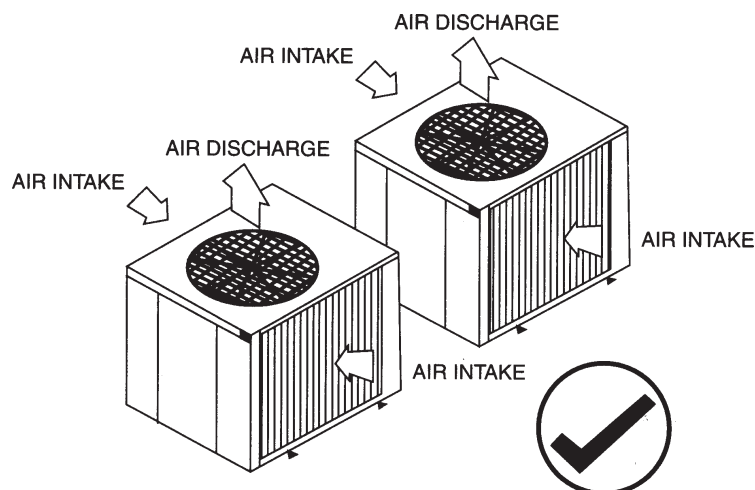
All dimensions in mm

## OUTDOOR

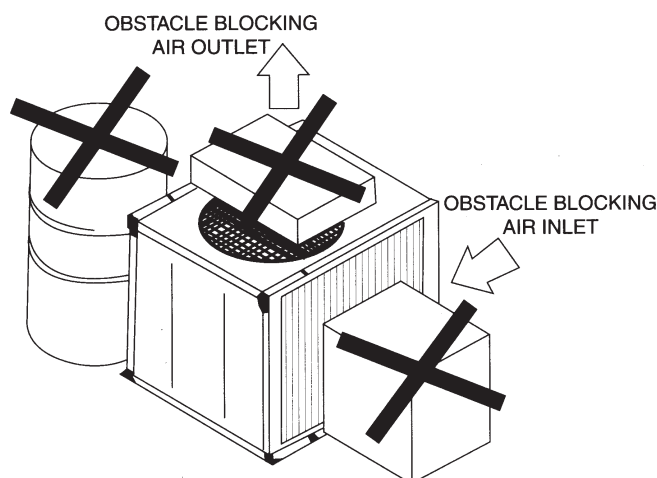
### LOCATION FOR INSTALLATION OF THE CONDENSING UNITS

As condensing temperature rises, evaporating temperature rises and cooling capacity drops. In order to achieve maximum cooling capacity, the location selected should fulfill the following requirements:-

- a) Install the condensing (outdoor) unit in a way such that hot air distributed by the outdoor condensing unit cannot be drawn in again (as in the case of short circuit of hot discharge air). Allow sufficient space for maintenance around the unit.



- b) Ensure that there is no obstruction of air flow into or out of the unit. Remove obstacle which block air intake or discharge.



- c) The location must be well ventilated, so that the unit can draw and distribute plenty of air thus lowering the condensing temperature.
- d) A place capable of bearing the weight of the outdoor unit and isolating noise and vibration.
- e) A place protected from direct sunlight. Otherwise use an awning for protection, if necessary.
- f) A place where the hot air discharge and operating sound level will not annoy the neighbours.
- g) The location must not be susceptible to dust or oil mist.



#### Caution

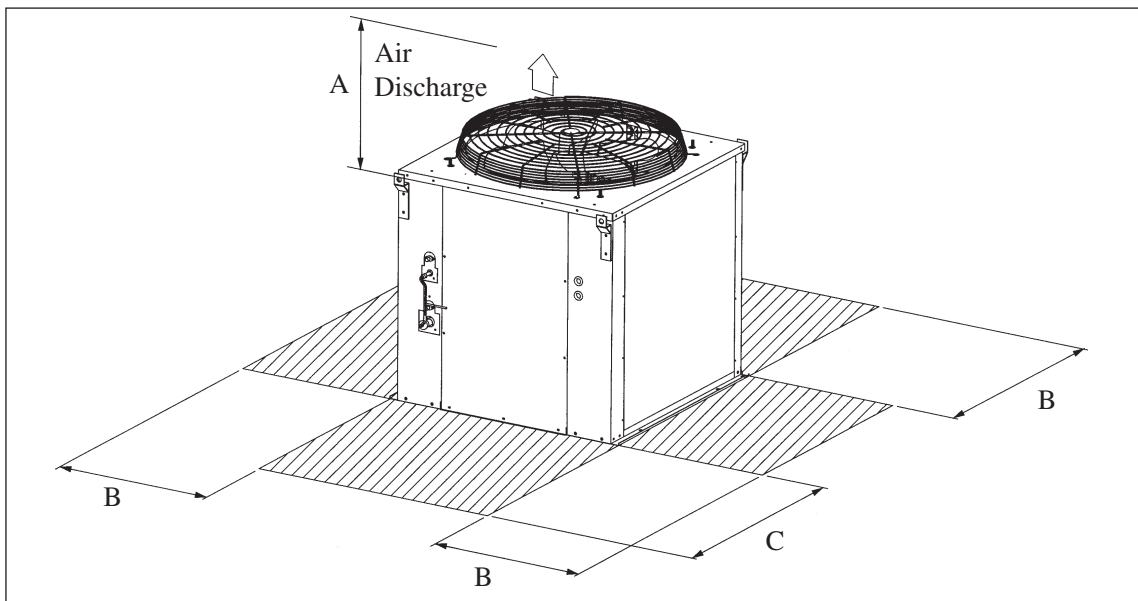
**If the condensing unit is operated in an atmosphere containing oils (including machine oils), salt (coastal area), sulphide gas (near hot spring, oil refinery plant), such as substances may lead to failure of the unit.**

## OUTDOOR CLEARANCE

When two or more outdoor units are installed in a location, they must be positioned such that one unit will not be taking the hot discharge air from another to avoid hot air short circuiting.

This also applies when two or more units are installed one above the other. Below are the installation clearance guidelines:

Model	RCP75/100/125/150DXY1 RCYP75/100/125/150EXY1
A (mm)	2000
B (mm)	300
C (mm)	1000



## Cable Size

### Cooling only

Model	Unit	FDMP75DXV1	FDMP100DXV1	FDP125DXY1	FDP150DXY1
		RCP75DXY1	RCP100DXY1	RCP125DXY1	RCP150DXY1
Power supply cable size*					
a) Indoor Unit	mm <sup>2</sup>	1.0	1.0	1.0	1.0
b) Outdoor Unit	mm <sup>2</sup>	2.5	4.0	4.0	6.0
c) Total	mm <sup>2</sup>	2.5	4.0	4.0	6.0
Number of wire					
a) Indoor Unit		-	-	3	3
b) Outdoor Unit		5	5	5	5
Interconnection cable size*	mm <sup>2</sup>	1.0	1.0	1.0	1.0
Number of wire		4	4	4	4
Recommended fuse*					
a) Indoor Unit	A	10	12	6	6
b) Outdoor Unit	A	25	32	40	50
c) Total	A	32	40	40	50

Model	Unit	2FDP150DXY1	2FDP200DXY1	2FGP250DXY1	2FGP300DXY1
		RCP75DXY1 x2	RCP100DXY1 x2	RCP125DXY1 x2	RCP150DXY1 x2
Power supply cable size*					
a) Indoor Unit	mm <sup>2</sup>	1.0	1.0	1.0	1.0
b) Outdoor Unit	mm <sup>2</sup>	2.5	2.5	4.0	6.0
c) Total	mm <sup>2</sup>	10.0	10.0	16.0	25.0
Number of wire					
a) Indoor Unit		5	5	5	5
b) Outdoor Unit		5	5	5	5
Interconnection cable size*	mm <sup>2</sup>	1.0	1.0	1.0	1.0
Number of wire		1x2	1x2	1x2	1x2
Recommended fuse*					
a) Indoor Unit	A	6	12	16	20
b) Outdoor Unit	A	25	32	40	50
c) Total	A	50	63	80	100

Model	Unit	4FGP400DXY1	4FGP500DXY1
		RCP100DXY1 x4	RCP125DXY1 x4
Power supply cable size*			
a) Indoor Unit	mm <sup>2</sup>	1.5	4.0
b) Outdoor Unit	mm <sup>2</sup>	2.5	4.0
c) Total	mm <sup>2</sup>	35.0	50.0
Number of wire			
a) Indoor Unit		5	5
b) Outdoor Unit		5	5
Interconnection cable size*	mm <sup>2</sup>	1.0	1.0
Number of wire		1x4	1x4
Recommended fuse*			
a) Indoor Unit	A	20	40
b) Outdoor Unit	A	32	40
c) Total	A	150	175

**IMPORTANT: \* These values are for information only. They should be checked and selected to comply with local and/or national codes and regulations. They are also subject to the type of installation and size of conductors.**

## Heatpump

Model	Unit	FDYMP75DXV1	FDYMP100DXV1	FDYP125EXY1	FDYP150EXY1
		RCYP75EXY1	RCYP100EXY1	RCYP125EXY1	RCYP150EXY1
Power supply cable size*					
a) Indoor Unit	mm <sup>2</sup>	1.0	1.0	1.0	1.0
b) Outdoor Unit	mm <sup>2</sup>	2.5	4.0	4.0	6.0
c) Total	mm <sup>2</sup>	2.5	4.0	4.0	6.0
Number of wire					
a) Indoor Unit		-	-	3	3
b) Outdoor Unit		5	5	5	5
Interconnection cable size*	mm <sup>2</sup>	1.0	1.0	1.0	1.0
Number of wire		7	7	7	7
Recommended fuse*					
a) Indoor Unit	A	10	12	6	6
b) Outdoor Unit	A	25	40	32	50
c) Total	A	32	40	40	50

Model	Unit	2FDYP150EXY1	2FDYP200EXY1	2FGYP250EXY1	2FGYP300EXY1
		RCYP75EXY1 x2	RCYP100EXY1 x2	RCYP125EXY1 x2	RCYP150EXY1 x2
Power supply cable size*					
a) Indoor Unit	mm <sup>2</sup>	1.0	1.0	1.0	1.0
b) Outdoor Unit	mm <sup>2</sup>	2.5	4.0	4.0	6.0
c) Total	mm <sup>2</sup>	10.0	10.0	16.0	25.0
Number of wire					
a) Indoor Unit		5	5	5	5
b) Outdoor Unit		5	5	5	5
Interconnection cable size*	mm <sup>2</sup>	1.0	1.0	1.0	1.0
Number of wire		6x2	6x2	6x2	6x2
Recommended fuse*					
a) Indoor Unit	A	6	10	16	16
b) Outdoor Unit	A	25	32	32	50
c) Total	A	50	63	80	100

Model	Unit	3FGYP300EXY1	3FGYP350EXY1		4FGYP400EXY1
		RCYP100EXY1 x3	RCYP100EXY1	RCYP125EXY1 x2	RCYP100EXY1 x4
Power supply cable size*					
a) Indoor Unit	mm <sup>2</sup>	1.0	1.5		1.5
b) Outdoor Unit	mm <sup>2</sup>	4.0	4.0		4.0
c) Total	mm <sup>2</sup>	25.0	25.0		35.0
Number of wire					
a) Indoor Unit		5	5		5
b) Outdoor Unit		5	5		5
Interconnection cable size*	mm <sup>2</sup>	1.0	1.0		1.0
Number of wire		6x3	6x3		6x4
Recommended fuse*					
a) Indoor Unit	A	16	20		20
b) Outdoor Unit	A	32	32		32
c) Total	A	100	100		150

**IMPORTANT: \* These values are for information only. They should be checked and selected to comply with local and/or national codes and regulations. They are also subject to the type of installation and size of conductors.**

Model	Unit	3FGYP450EXY1	4FGYP500EXY1	4FGYP600EXY1
		RCYP150EXY1 x3	RCYP125EXY1 x4	RCYP150EXY1 x4
Power supply cable size*				
a) Indoor Unit	mm <sup>2</sup>	2.5	2.5	4.0
b) Outdoor Unit	mm <sup>2</sup>	6.0	4.0	6.0
c) Total	mm <sup>2</sup>	35.0	35.0	70.0
Number of wire				
a) Indoor Unit		5	5	5
b) Outdoor Unit		5	5	5
Interconnection cable size*	mm <sup>2</sup>	1.0	1.0	1.0
Number of wire		6x3	6x4	6x4
Recommended fuse*				
a) Indoor Unit	A	25	32	32
b) Outdoor Unit	A	50	32	50
c) Total	A	150	150	200

**IMPORTANT:** \* These values are for information only. They should be checked and selected to comply with local and/or national codes and regulations. They are also subject to the type of installation and size of conductors.

## Refrigerant Piping

### Maximum Piping Length and Maximum Number of Bends

When the pipe length becomes too long, both the capacity and reliability drop. As the number of bends increases, system piping resistance to the refrigerant flow increases, thus lowering the cooling capacity, and as the result the compressor may become defective. Always choose the shortest path and follow the recommendation as tabulated below:

Model	RCP75DXY1 / RCYP75EXY1	RCP100DXY1 / RCYP100EXY1	RCP125DXY1 / RCYP125EXY1	RCP150DXY1 / RCYP150EXY1
Max Allowable Length, m	35	35	35	35
Max Allowable Elevation, m	20	20	20	20
Max Allowable Bend	8	8	8	8

### Additional Charge

- For piping length below 7.5m, kindly charge in refrigerant based on serial number sticker on unit.
- When piping length is more than 7.5m, please use the Table 3 below based on liquid pipe size per meter length.

Liquid Pipe Size (in)	Additional charge (kg/m)
3/8"	0.05
1/2"	0.10
5/8"	0.15
3/4"	0.23

Table 3 Additional Charge

#### Notes:

The additional refrigerant charge amount recommended is a guideline for long piping application.

The actual charge required may be different from the guideline due to different application and variation in site conditions.

# Sound Data

## Sound Pressure Level

### Cooling Only Models

Model	Speed	1/1 Octave Sound Pressure (dB, ref 20 $\mu$ Pa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
*FDMP75DXV1	S. High	52	49	49	48	45	40	33	52	47
	High	51	49	48	47	44	40	33	52	46
	Med	48	46	46	45	40	34	26	48	44
	Low	43	40	42	38	36	30	19	43	37
*FDMP100DXV1	S. High	60	54	51	51	49	44	37	55	50
	High	59	52	50	50	48	42	36	54	49
	Med	55	51	49	47	44	38	31	52	46
	Low	55	47	47	43	40	33	26	48	43
*FDP125DXY1	High	57	55	56	53	51	46	38	58	53
*FDP150DXY1	High	58	56	57	54	52	47	39	59	54
*2FDP150DXY1	High	58	56	57	54	52	47	39	59	54
2FDP200DXY1	High	58	55	57	56	53	49	40	60	55
2FGP250DXY1	High	61	56	58	58	56	51	41	62	57
2FGP300DXY1	High	65	58	60	61	58	53	43	65	60
4FGP400DXY1	High	66	61	62	61	58	53	44	66	60
4FGP500DXY1	High	68	65	65	62	57	52	45	67	62

### Heatpump Models

Model	Speed	1/1 Octave Sound Pressure (dB, ref 20 $\mu$ Pa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
*FDYMP75DXV1	S. High	52	49	49	48	45	40	33	52	47
	High	51	49	48	47	44	40	33	52	46
	Med	48	46	46	45	40	34	26	48	44
	Low	43	40	42	38	36	30	19	43	37
*FDYMP100DXV1	S. High	60	54	51	51	49	44	37	55	50
	High	59	52	50	50	48	42	36	54	49
	Med	55	51	49	47	44	38	31	52	46
	Low	55	47	47	43	40	33	26	48	43
*FDYP125EXY1	High	57	55	56	53	51	46	38	58	53
*FDYP150EXY1	High	58	56	57	54	52	47	39	59	54
*2FDYP150EXY1	High	58	56	57	54	52	47	39	59	54
*2FDYP200EXY1	High	60	56	58	56	54	49	41	61	55
2FGYP250EXY1	High	62	57	59	59	57	52	43	63	58
2FGYP300EXY1	High	66	60	62	61	59	54	44	66	60
3FGYP300EXY1	High	66	60	62	61	59	54	44	66	60
3FGYP350EXY1	High	67	60	62	62	59	54	44	66	61
4FGYP400EXY1	High	67	64	63	63	59	54	45	66	62
3FGYP450EXY1	High	68	64	65	63	60	55	46	68	62
4FGYP500EXY1	High	69	66	66	64	61	56	47	68	63
4FGYP600EXY1	High	70	68	68	66	62	57	48	70	65

\*Microphone position: 1.5m below center of the unit.

(Tested with 2m length duct at the air discharge outlet and 1m length air return inlet)

Microphone position: 1m away from every side panel of the unit and 1m above the floor level.

(Tested with 2m length duct at the air discharge outlet only)

## Sound Power Level

### Cooling Only Models

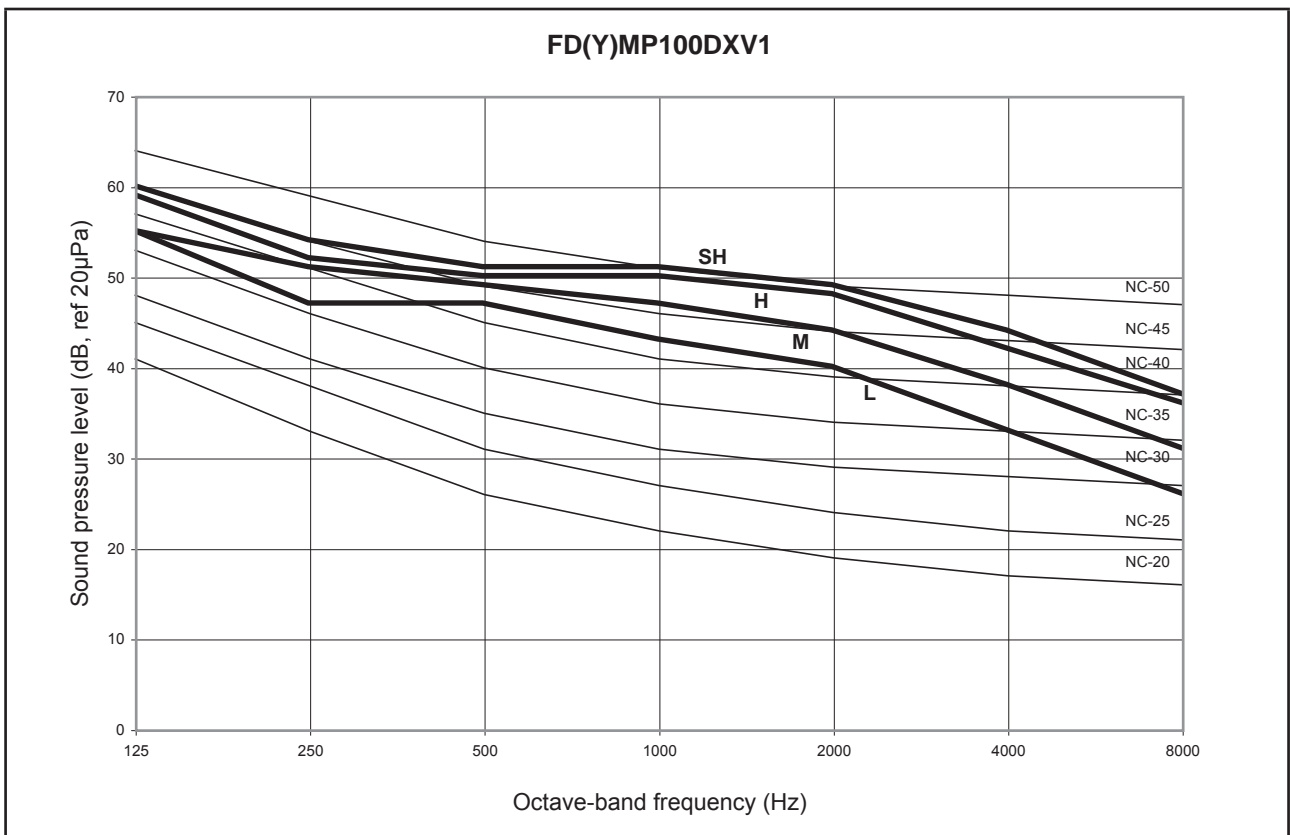
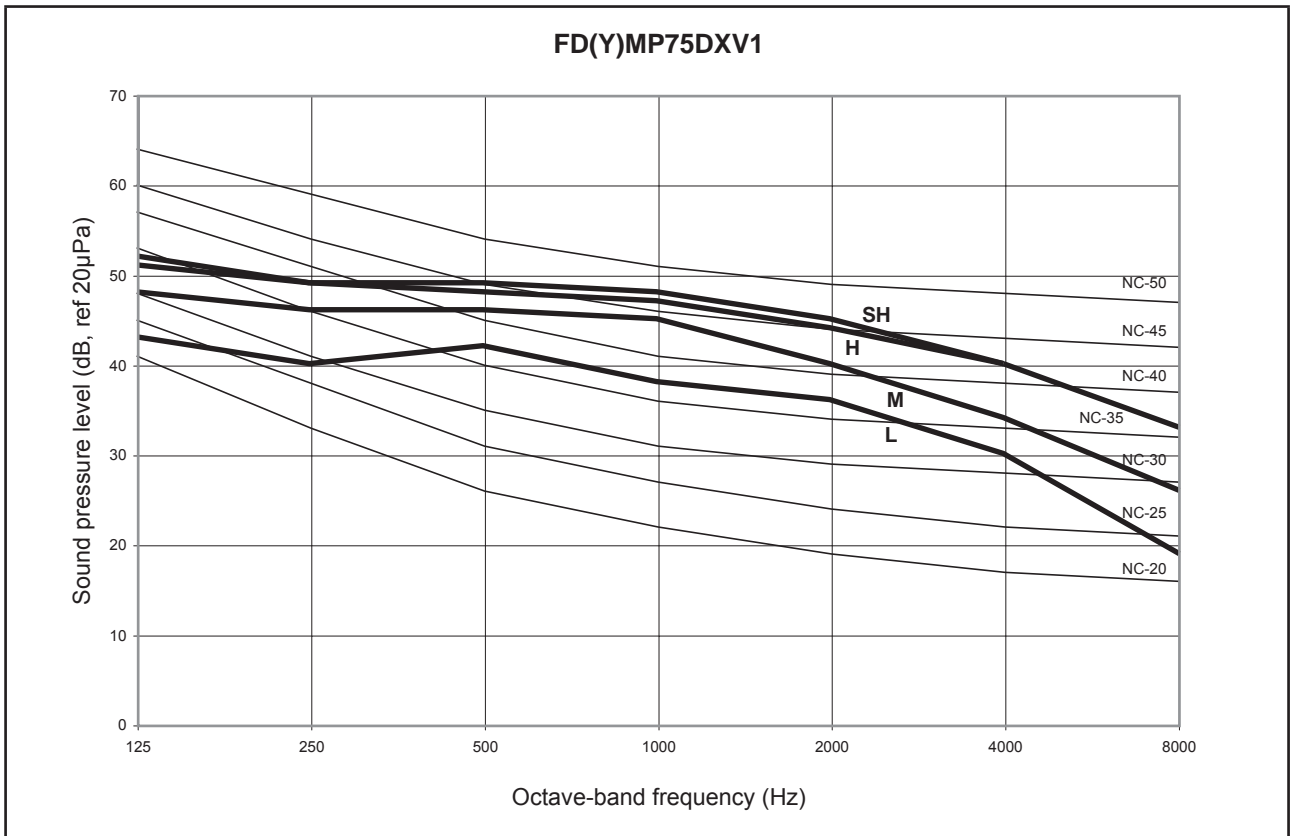
Model	Speed	1/1 Octave Sound Power (dB, reference 1pW)							Overall (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
FDMP75DXV1	S. High	69	71	72	73	71	69	65	78
	High	67	69	72	72	70	68	64	77
	Med	62	66	69	69	65	63	58	73
	Low	58	61	64	64	61	58	51	68
FDMP100DXV1	S. High	75	72	74	75	73	72	67	80
	High	75	71	73	74	72	70	66	79
	Med	76	69	71	72	69	68	63	76
	Low	75	65	68	67	65	62	57	72
FDP125DXY1	High	75	76	75	72	69	65	60	77
FDP150DXY1	High	77	78	77	74	71	67	62	79
2FDP150DXY1	High	77	78	77	74	71	67	62	79
2FDP200DXY1	High	83	84	83	81	77	73	68	85
2FGP250DXY1	High	85	86	85	83	79	75	70	87
2FGP300DXY1	High	87	88	87	85	81	77	72	89
4FGP400DXY1	High	88	89	88	86	82	78	73	90
4FGP500DXY1	High	94	95	94	92	88	84	79	96

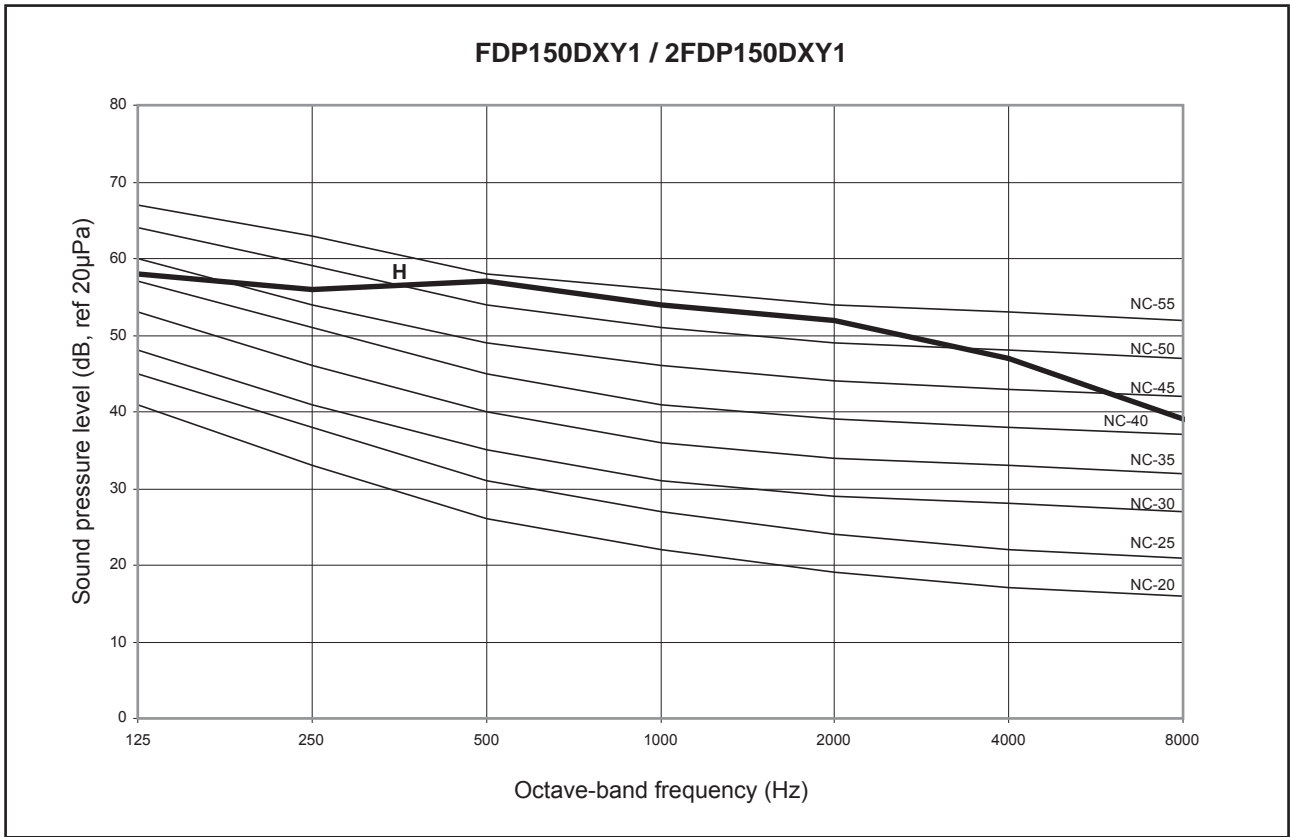
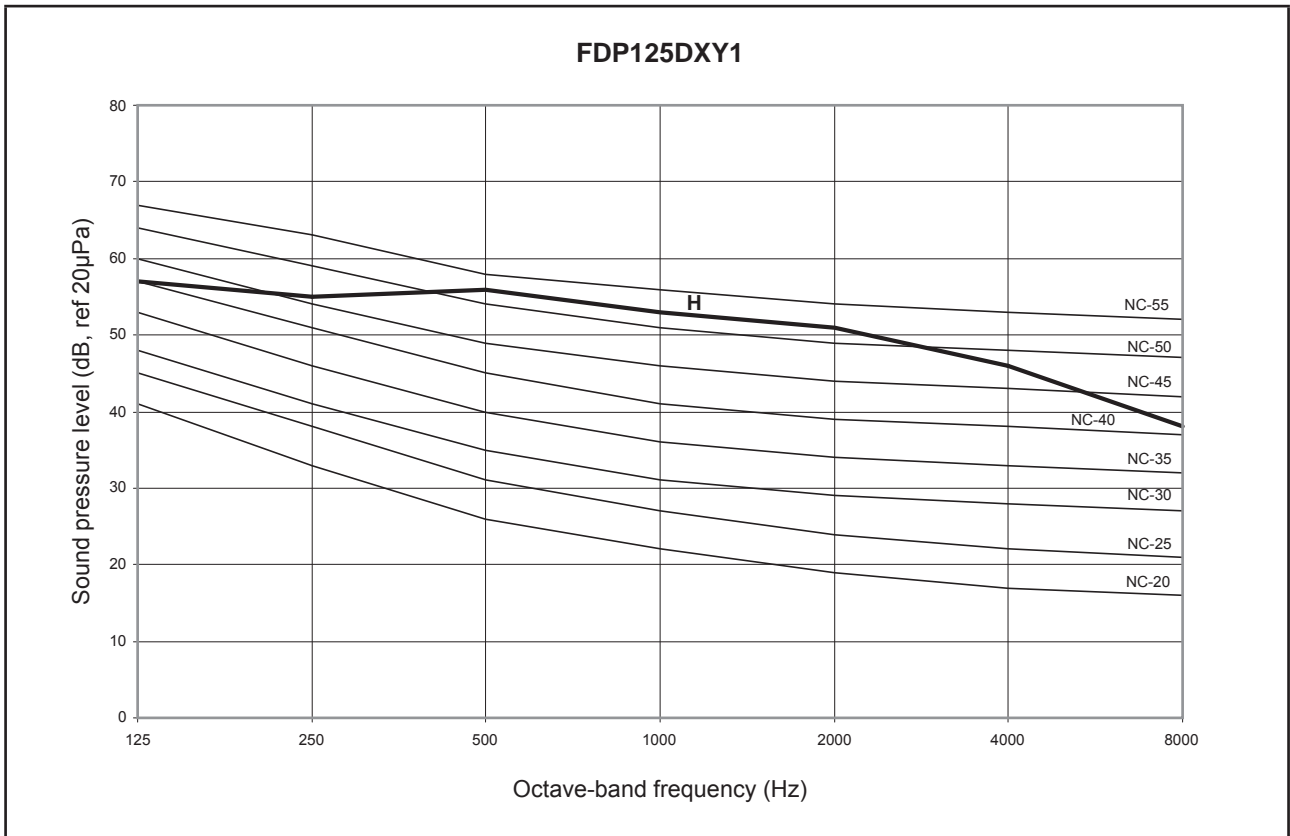
### Heatpump Models

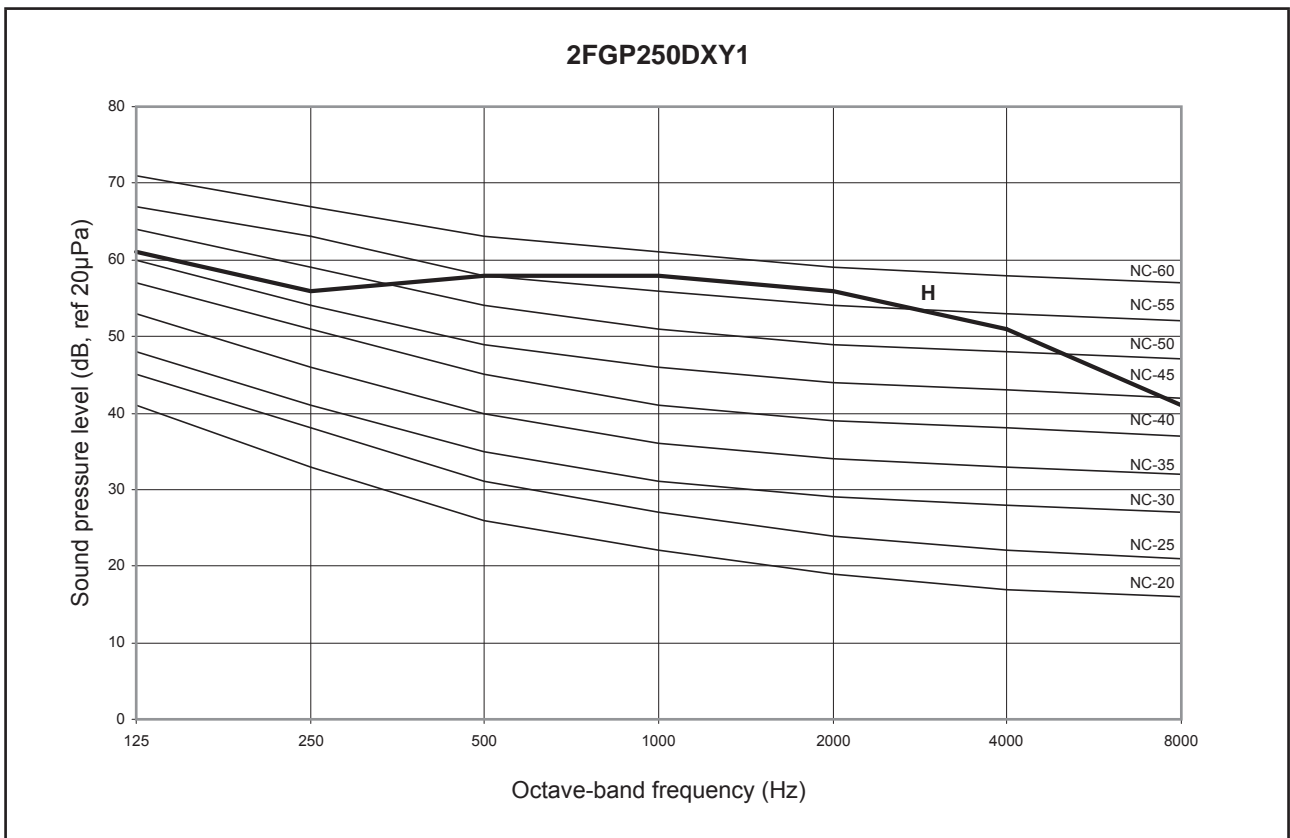
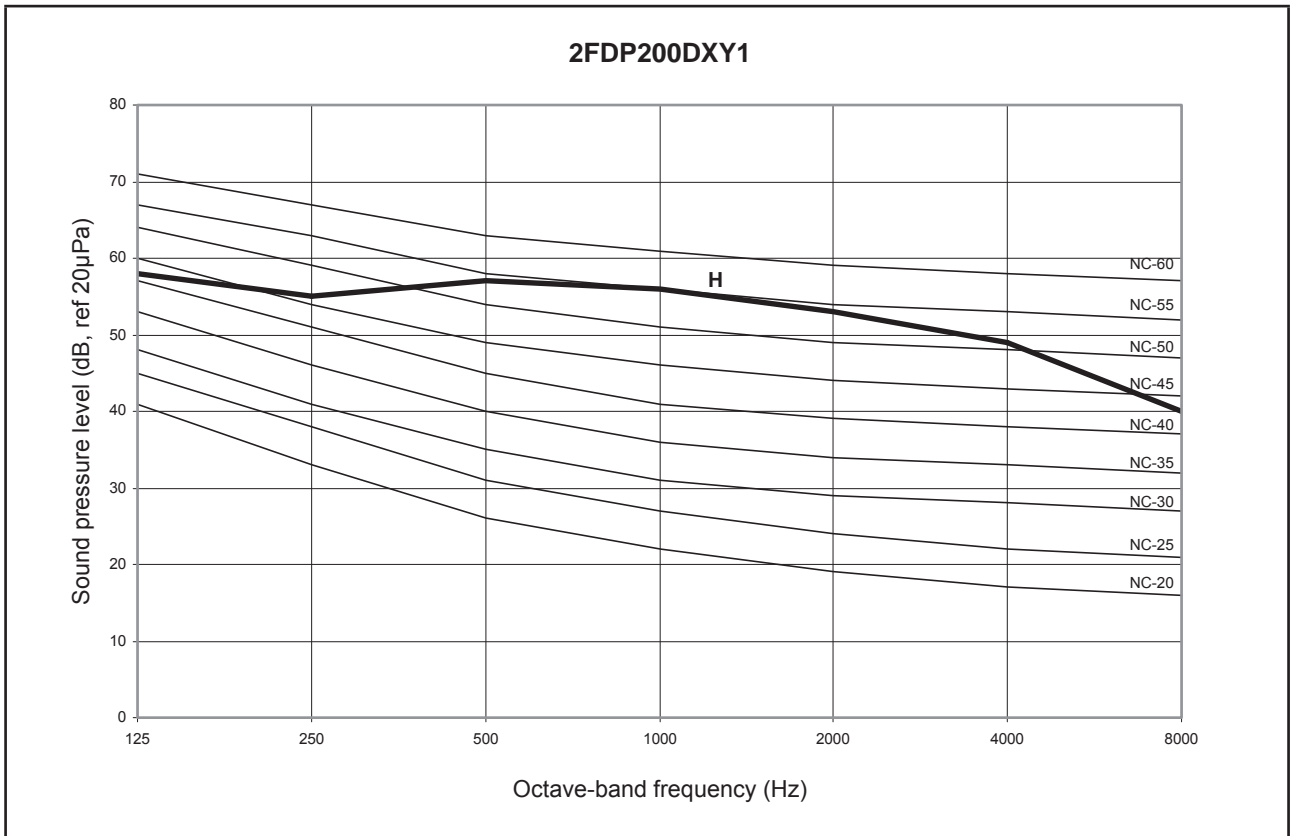
Model	Speed	1/1 Octave Sound Power (dB, reference 1pW)							Overall (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
FDYMP75DXV1	S. High	69	71	72	73	71	69	65	78
	High	67	69	72	72	70	68	64	77
	Med	62	66	69	69	65	63	58	73
	Low	58	61	64	64	61	58	51	68
FDYMP100DXV1	S. High	75	72	74	75	73	72	67	80
	High	75	71	73	74	72	70	66	79
	Med	76	69	71	72	69	68	63	76
	Low	75	65	68	67	65	62	57	72
FDYP125EXY1	High	75	76	75	72	69	65	60	77
FDYP150EXY1	High	77	78	77	74	71	67	62	79
2FDYP150EXY1	High	77	78	77	74	71	67	62	79
2FDYP200EXY1	High	83	84	83	81	77	73	68	85
2FGYP250EXY1	High	85	86	85	83	79	75	70	87
2FGYP300EXY1	High	87	88	87	85	81	77	72	89
3FGYP300EXY1	High	87	88	87	85	81	77	72	89
3FGYP350EXY1	High	90	91	90	87	84	80	75	92
4FGYP400EXY1	High	88	89	88	86	82	78	73	90
3FGYP450EXY1	High	91	92	91	89	85	81	76	93
4FGYP500EXY1	High	94	95	94	92	88	84	79	96
4FGYP600EXY1	High	87	88	87	85	81	77	72	89

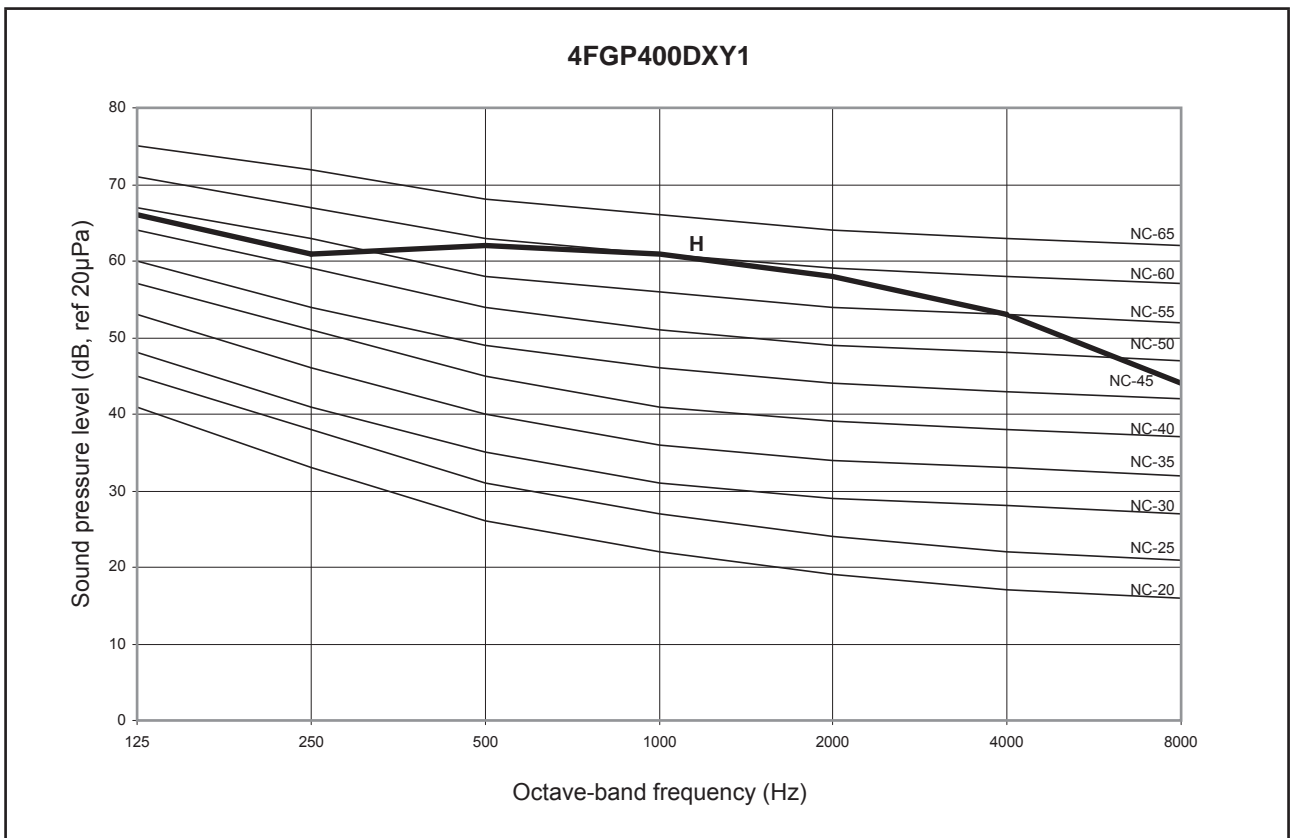
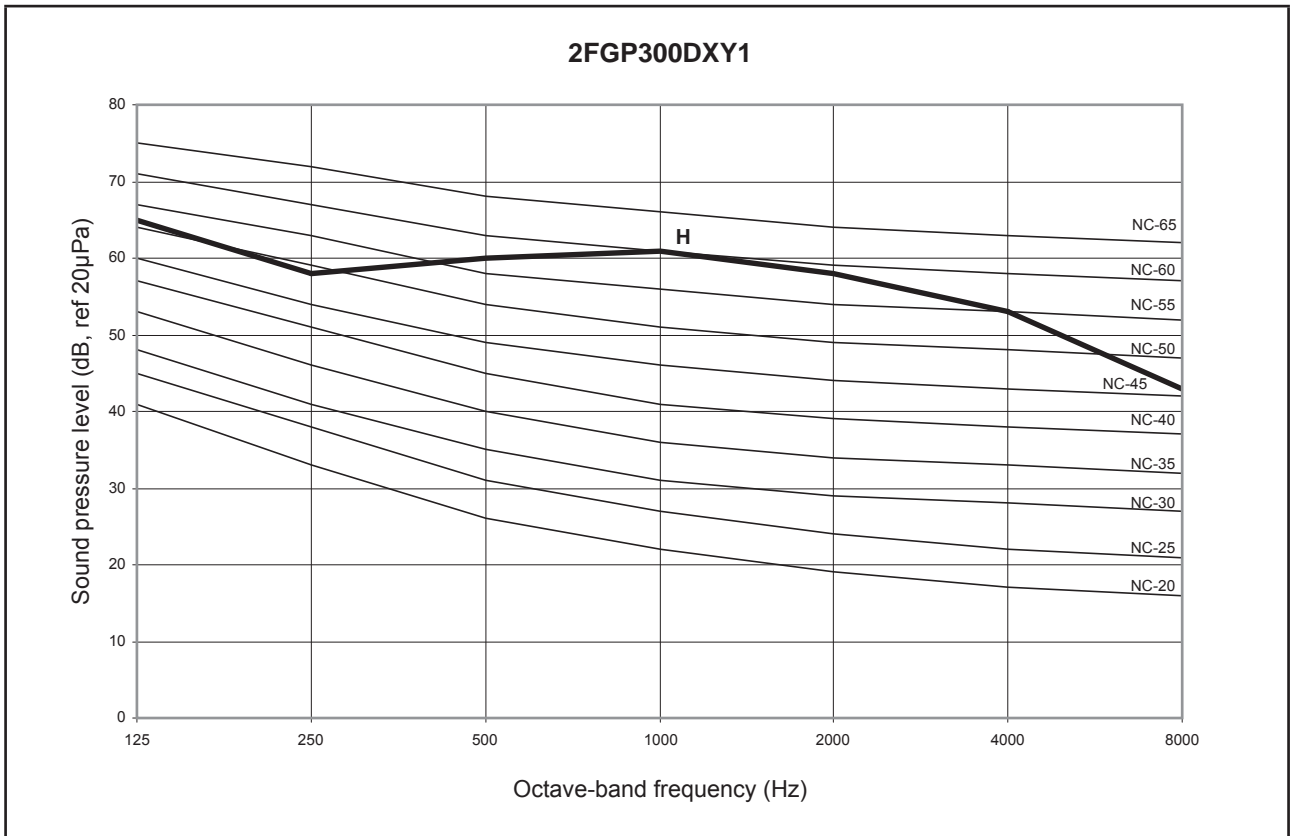
Remarks: Test with 5ft length discharge duct, terminated flush with the internal wall of reverberation room. Tested with 2m length duct at the air discharge outlet and air return inlet.

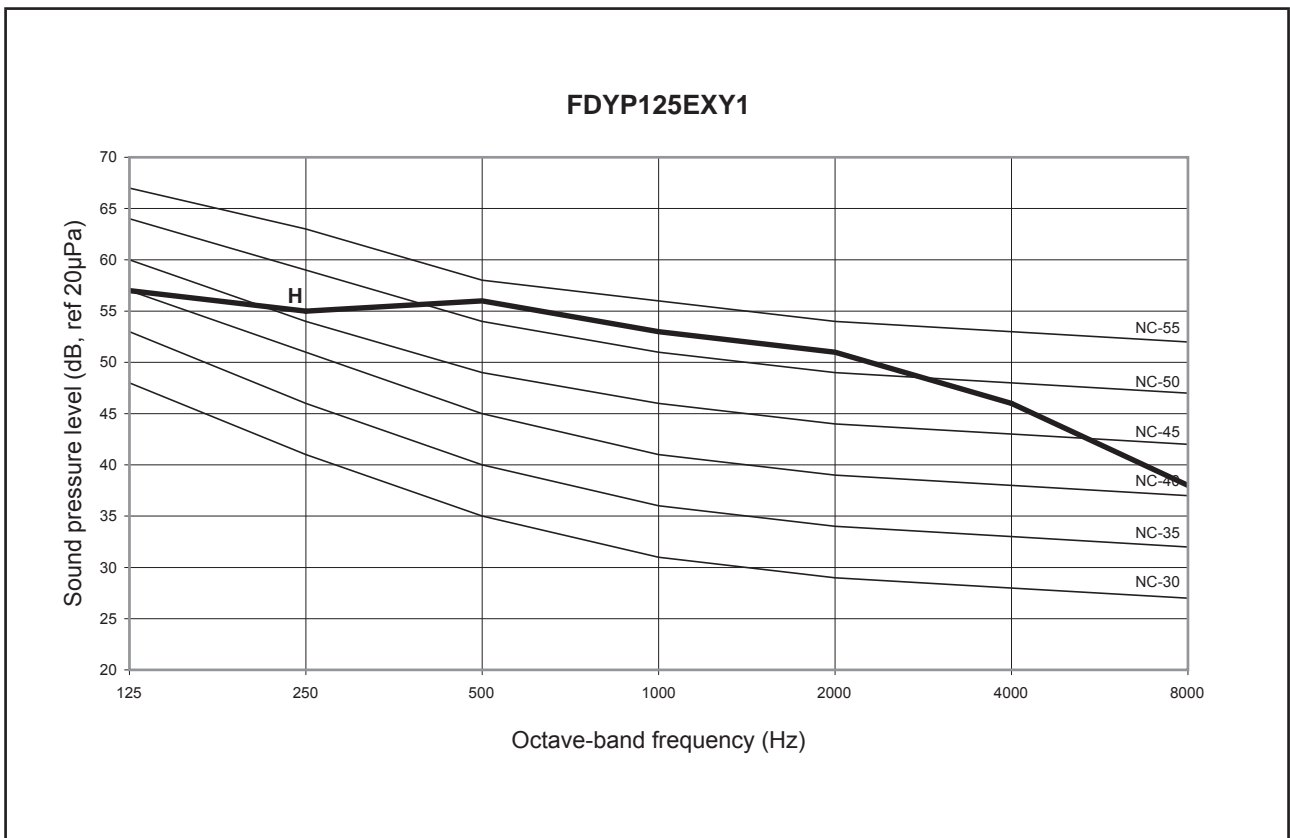
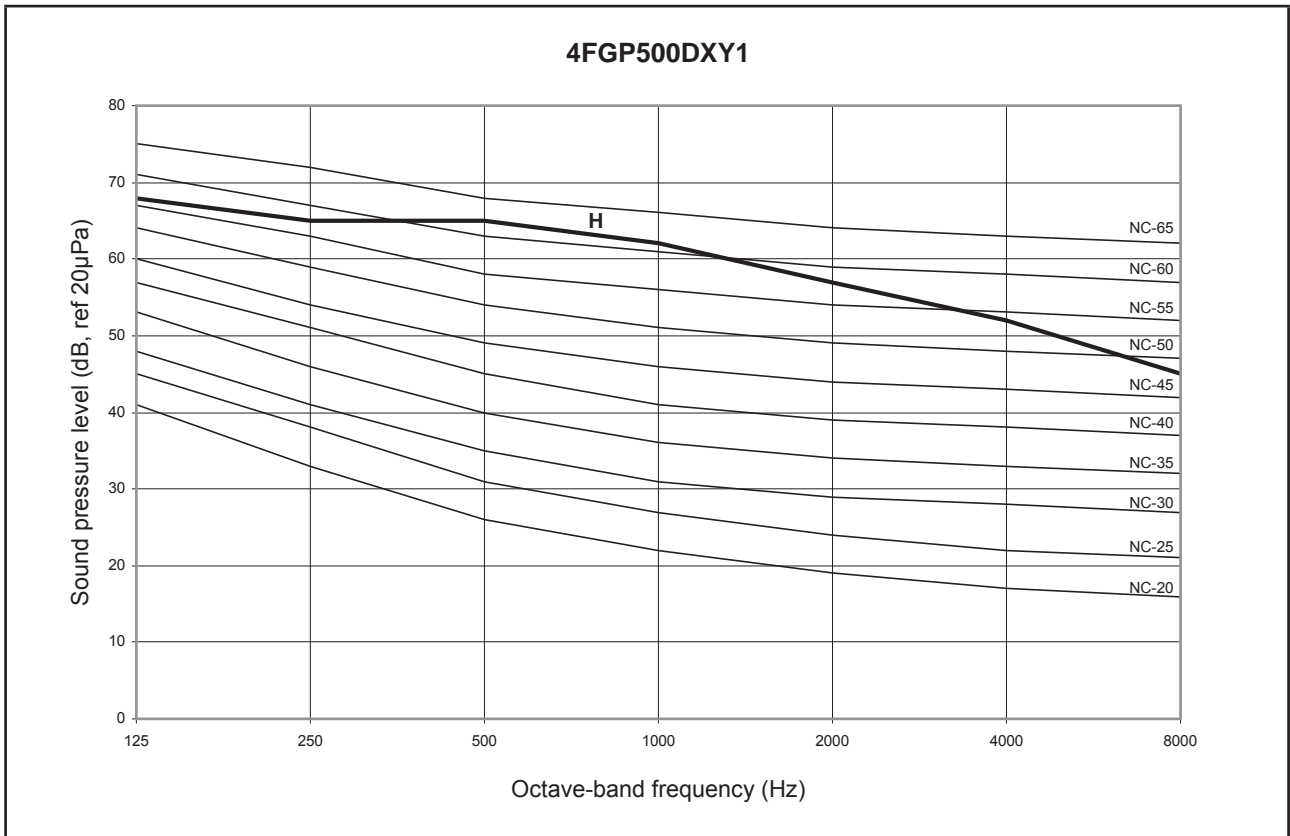
NC Curve

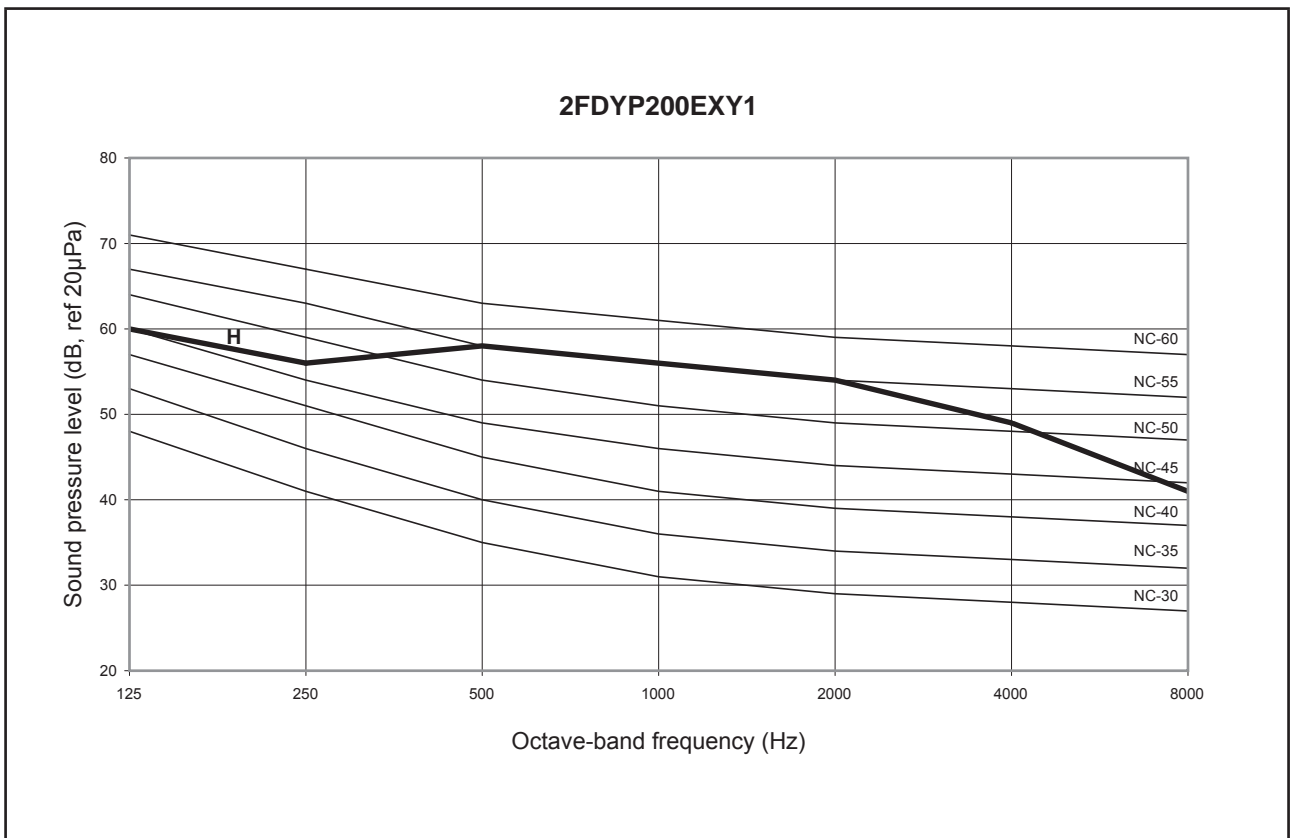
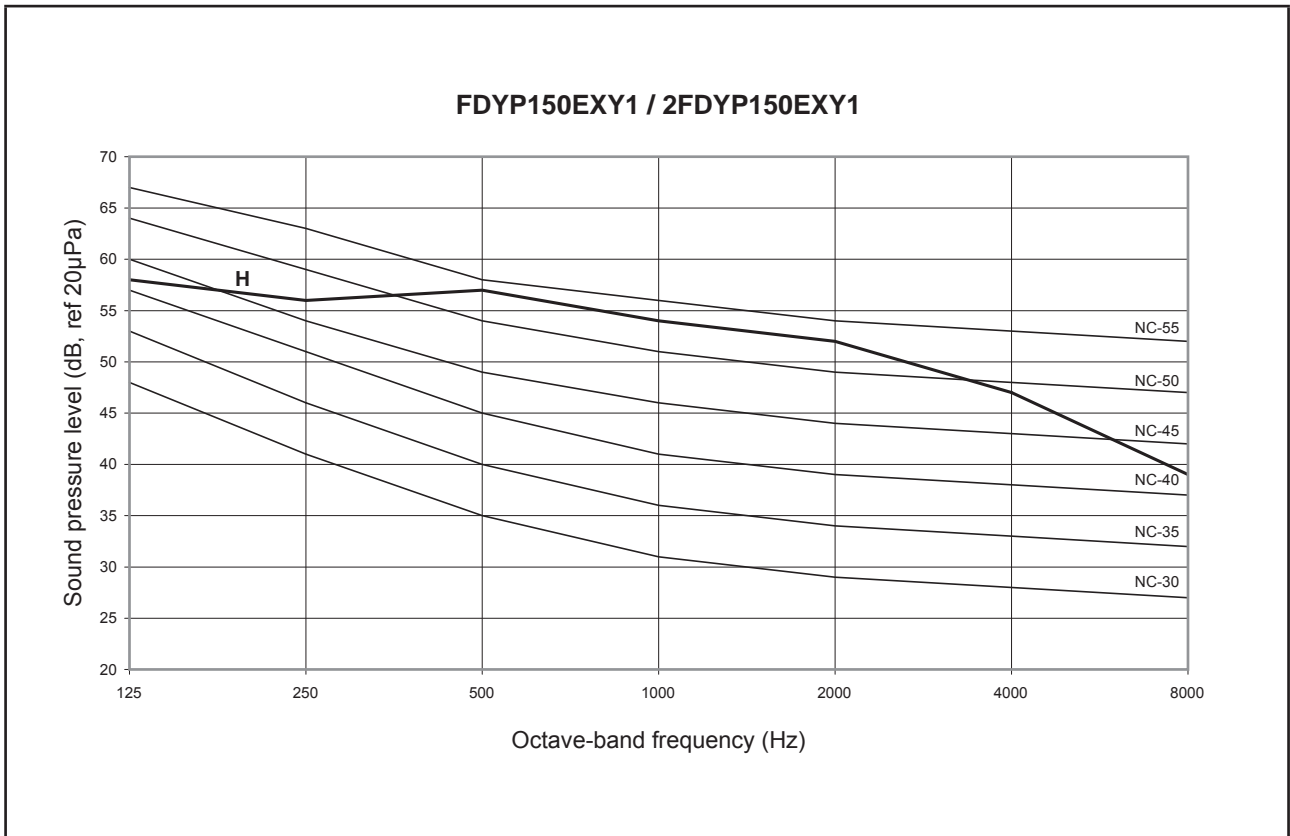


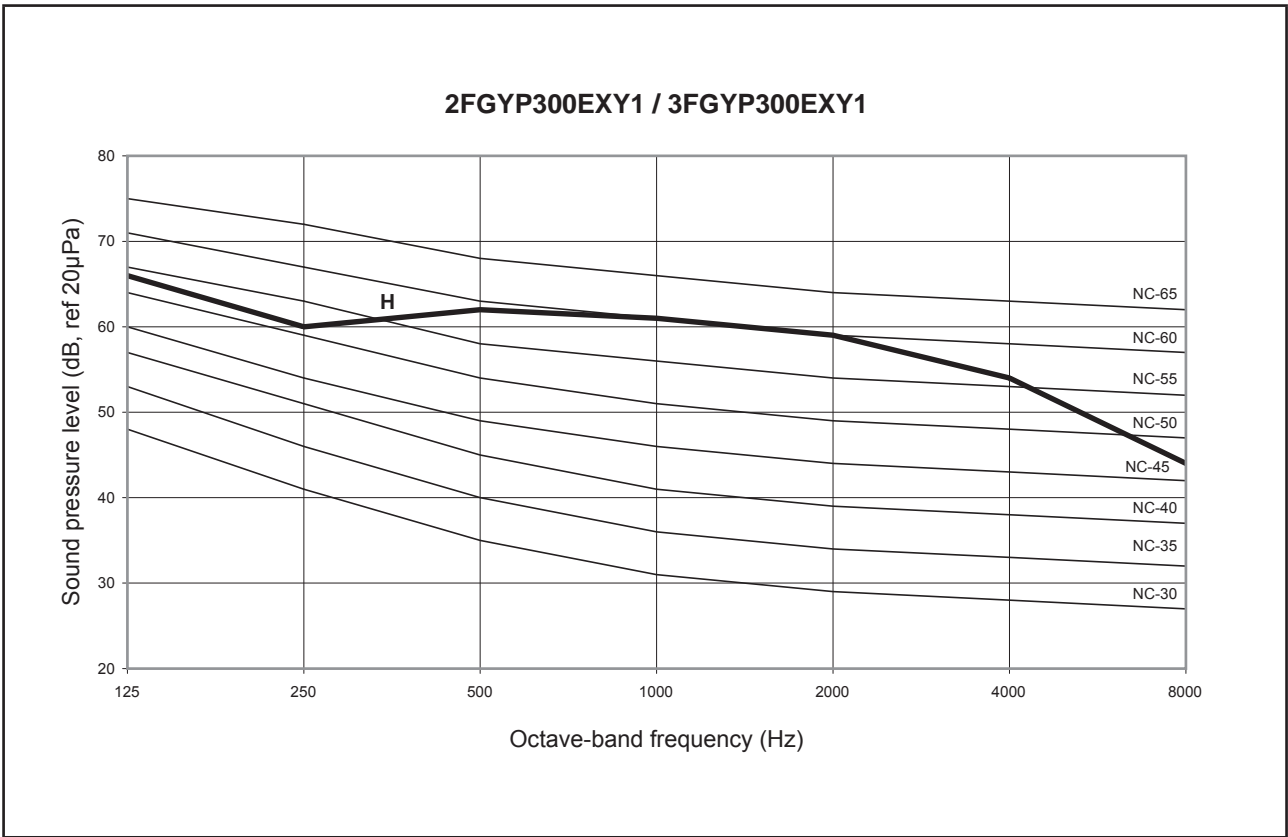
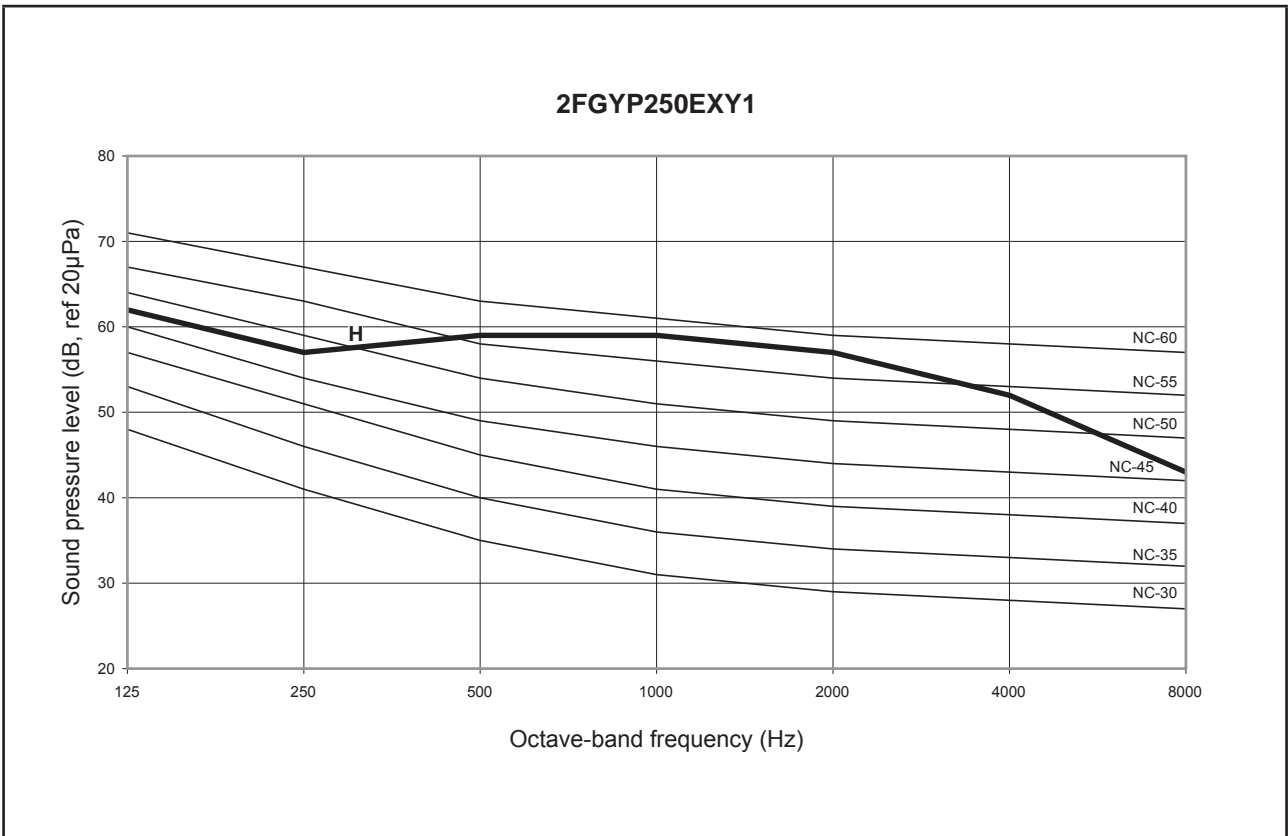


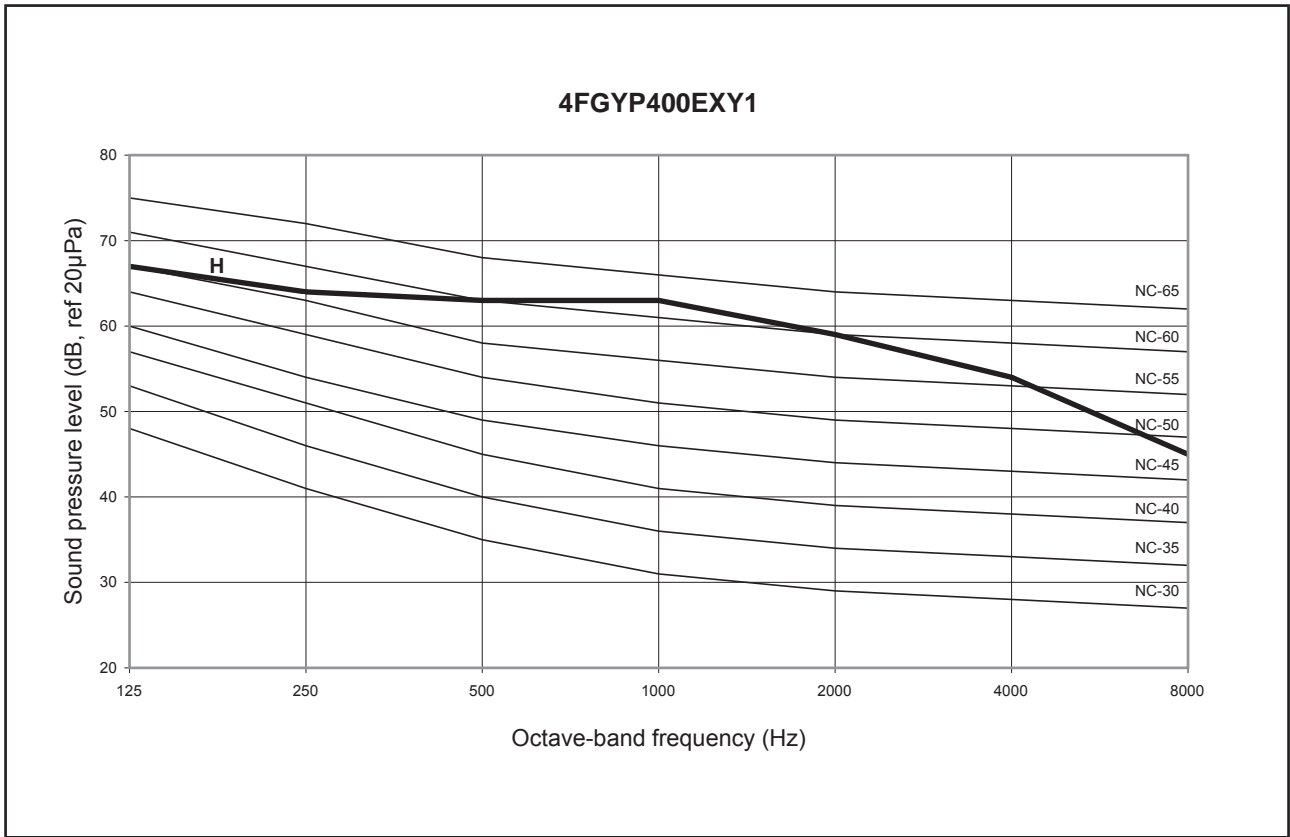
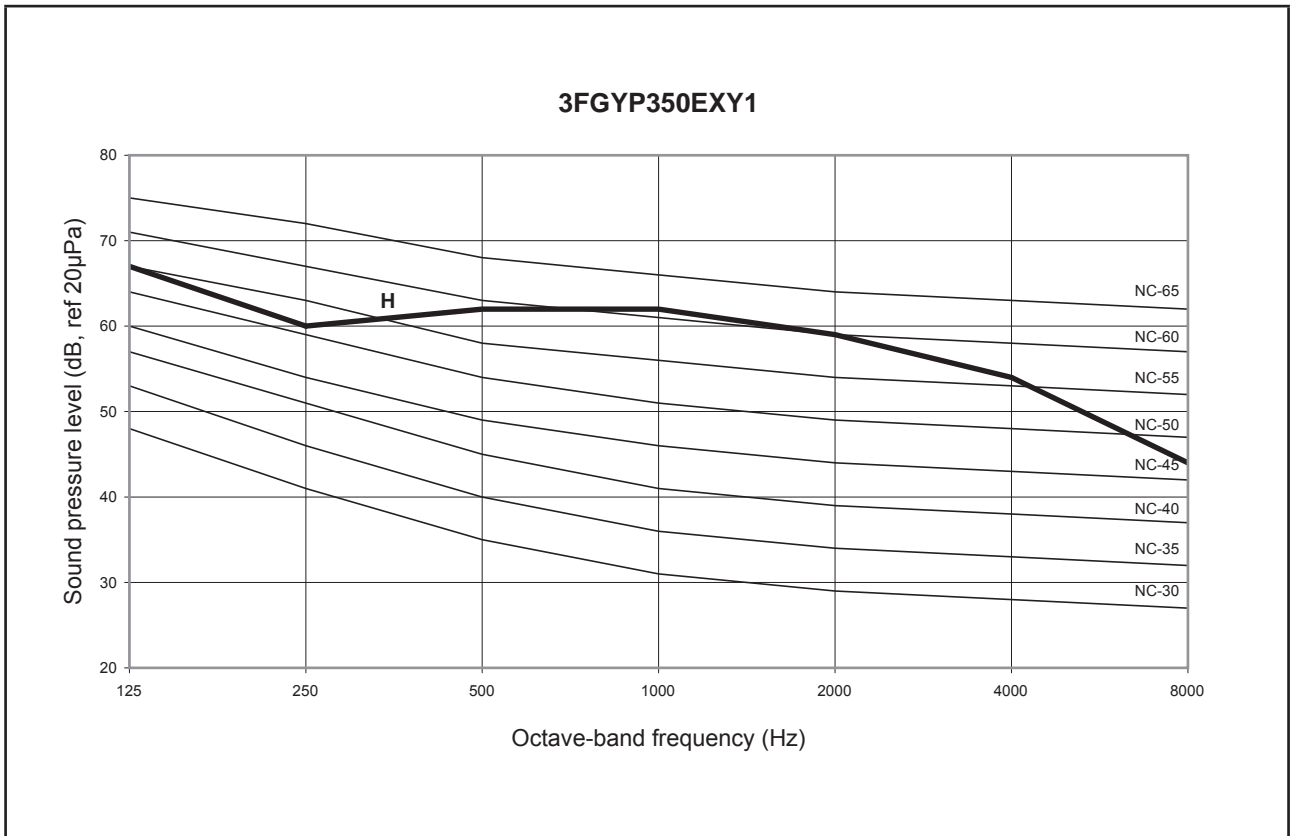


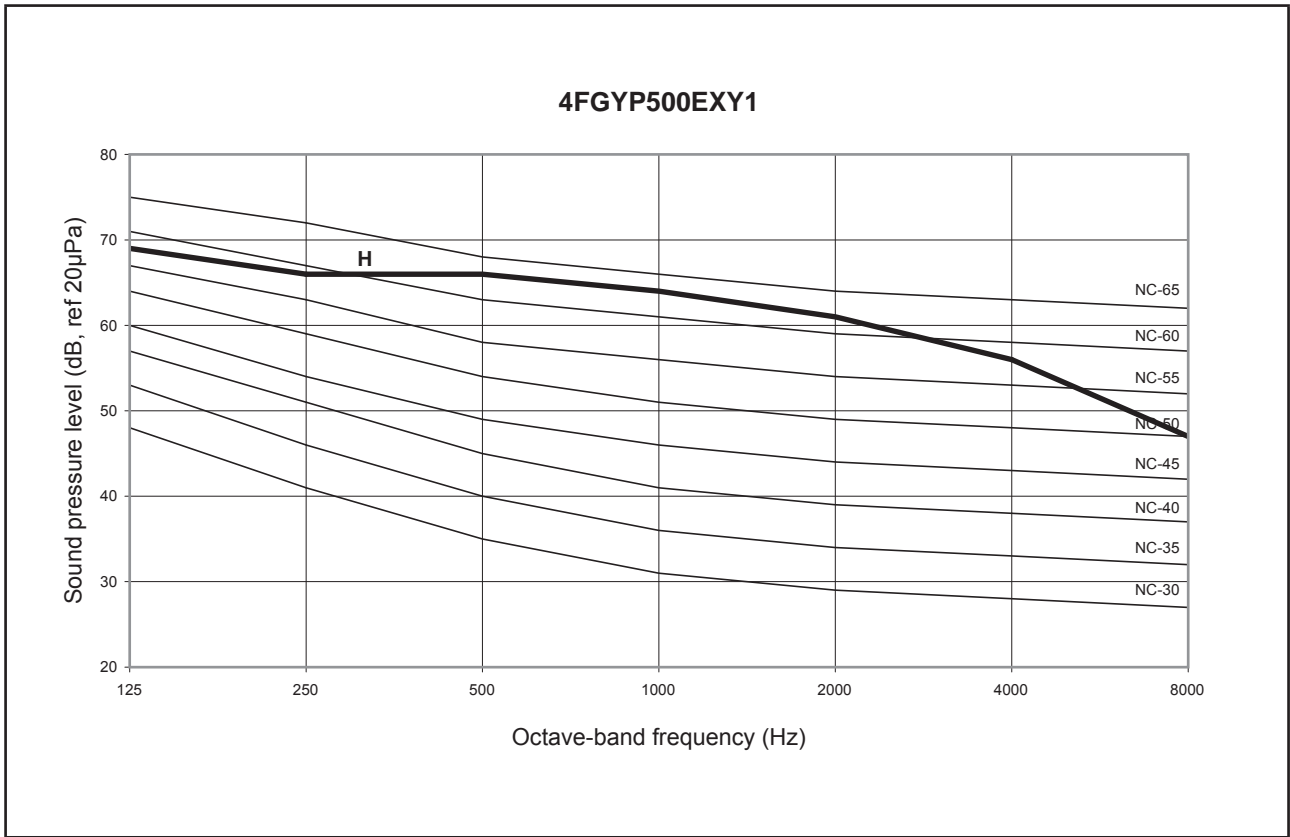
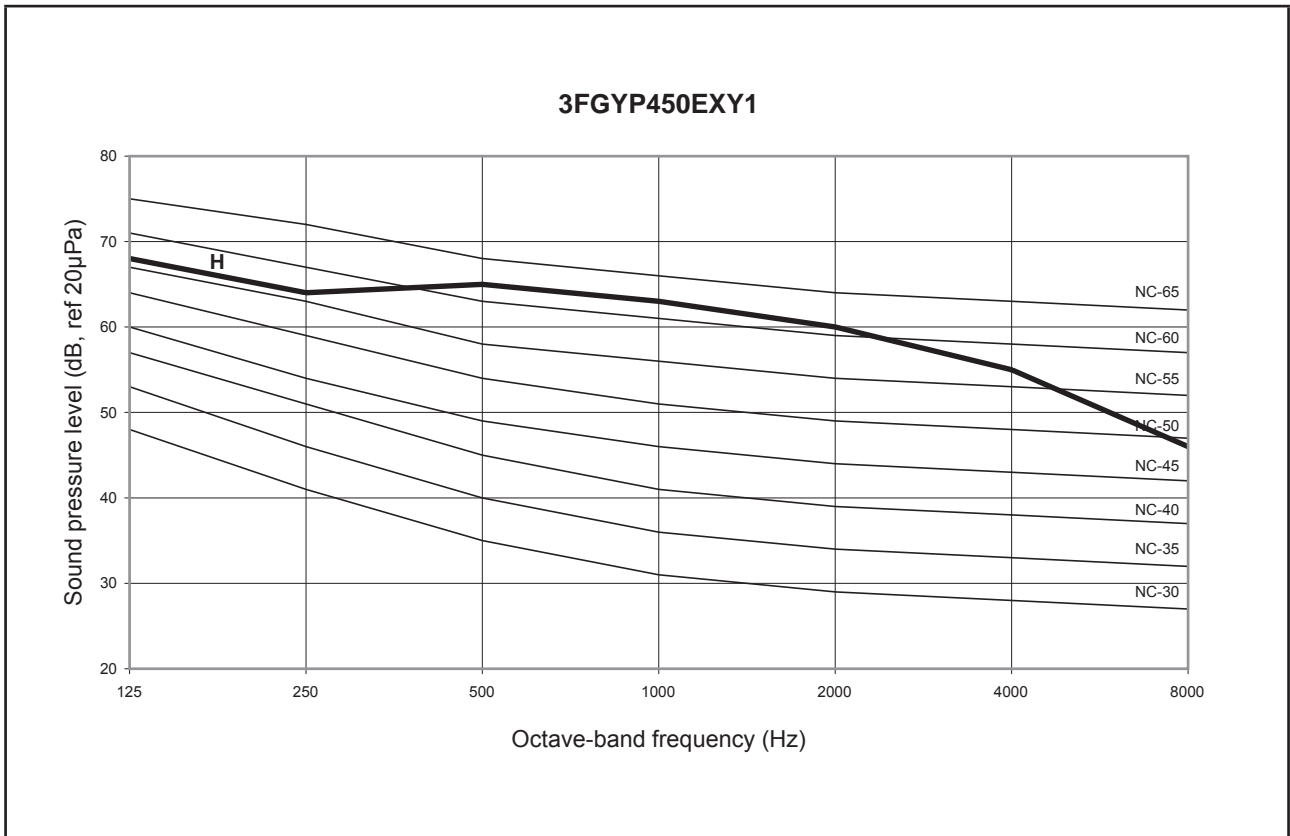


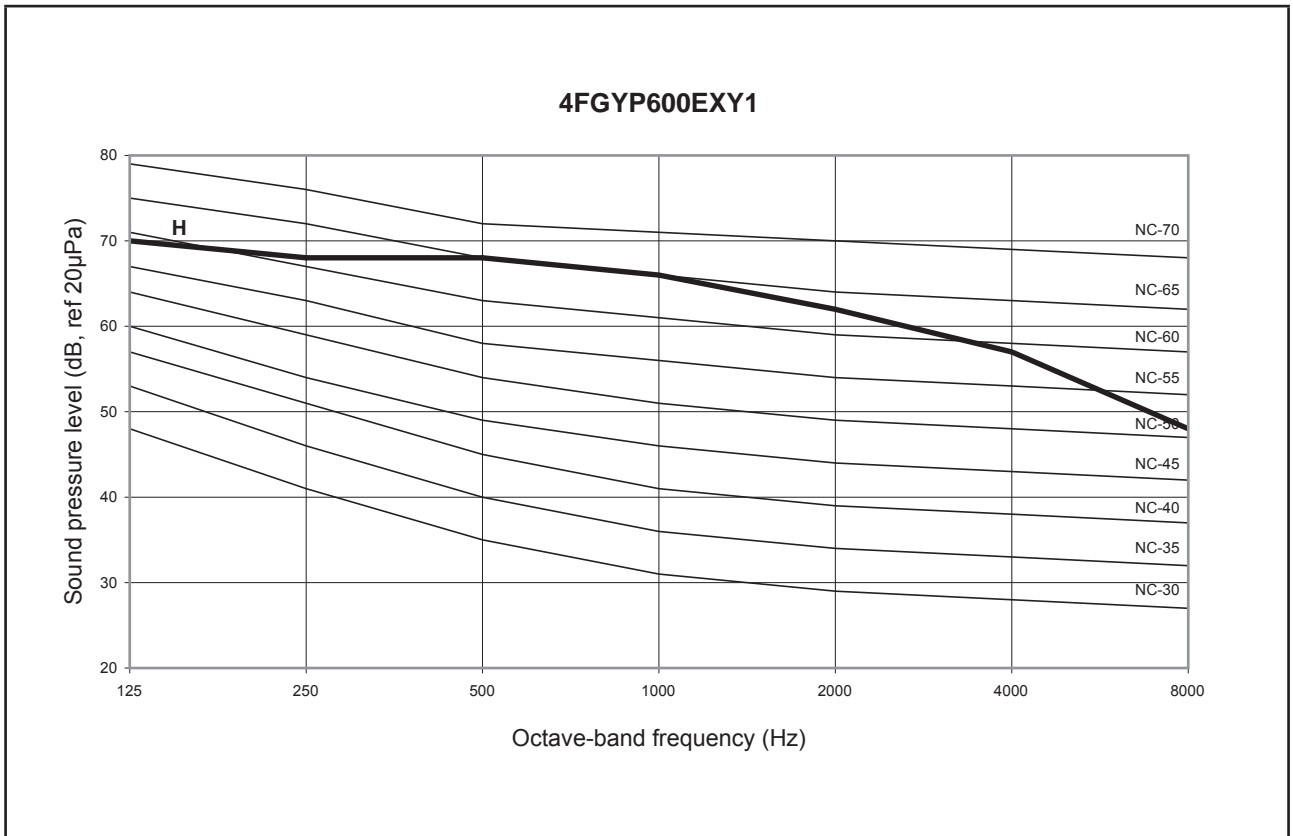












# Selection Process

## Fan Performance Chart

### Example 1 :

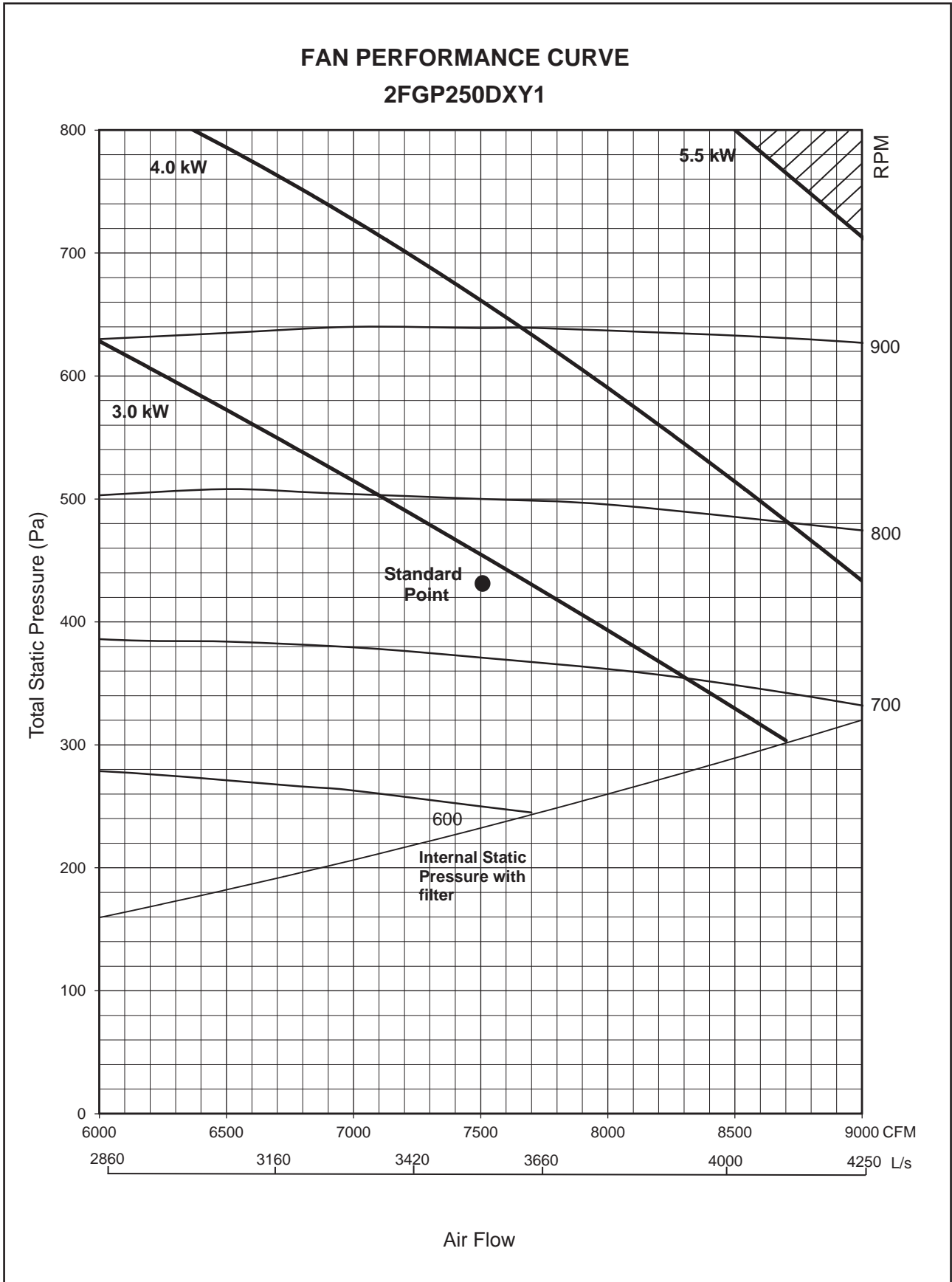
The following are the design requirements for 2FGP250DXY1 unit:			
<b>Model:</b>		<b>2FGP250DXY1</b>	
Supply Air Quantity	=	8000	CFM
External Static Pressure	=	29	mmAq
Step 1:	From the fan curve (at 8000 CFM), Standard operating system;		
	Total Static Pressure	=	<b>46.5</b> mmAq
	Internal Static Pressure	=	<b>26</b> mmAq
	External Static Pressure	=	<b>20.5</b> mmAq
	External Static Pressure of 20.5 mmAq did not fulfill the design requirements.		
Step 2:	Therefore at 8000 CFM and 14 mmAq External static pressure,		
	Total Static Pressure	=	26 + 29 mmAq
		=	<b>55</b> mmAq
Step 3:	From the fan curve, the design requirement calls for RPM about 850, whereas the unit can only deliver RPM about 700 under the same CFM. Therefore, it is necessary to resize the pulley sizes.		
	From the table:		
	Motor pulley	=	95 mm
	Blower pulley	=	180 mm
	Motor RPM	=	1440
	In order to obtain 850 RPM, we recalculate the new blower pulley as: (while maintaining the motor pulley)		
	Db	=	95 x (1440/850)
		=	160.9 mm
	The nearest pulley size will be a diameter of 160mm		
	Recheck, with Db = <b>160mm</b>		
	Blower pulley	=	1440 x (95/160)
		=	<b>855</b>
	We thus need to change the blower pulley from 180mm to 160mm in order to obtain the higher operating static pressure.		
Step 4:	When the pulley is changed, the V-belt length must be rechecked. We have for horizontal air throw configuration:		
	V-belt length, L	=	2C + 1.57 (Db + Dm)
		=	(2 x 580) + 1.57 (95 + 160)
		=	1560.35mm
	We thus can use a belt with a length of <b>1600mm</b>		
	where, C	=	distance between the centres of the two pulleys
	Db	=	diameter of blower pulley
	Dm	=	diameter of motor pulley
Step 5:	From the fan curve, we can also notice that the motor power input has increased. At the new operating point, the power is approximately 2.7 kW.		
	By applying a safety factor of 1.2 to account for losses, we calculate that the motor power input requirement should be = 2.7 x 1.2 = <b>3.24 kW</b>		
	Thus, the existing motor is still sufficient to drive the blower with the smaller 160mm pulley.		
	<b>Summary:</b>		
	i) Fan motor kW	=	<b>4.0</b> kW
	ii) Blower pulley diameter	=	<b>160</b> mm
	iii) V-belt size	=	<b>1600</b> mm

The following table summarizes the pulley data, motor size used for the FDP/FDYP/ FGP/FGYP series, as manufactured:

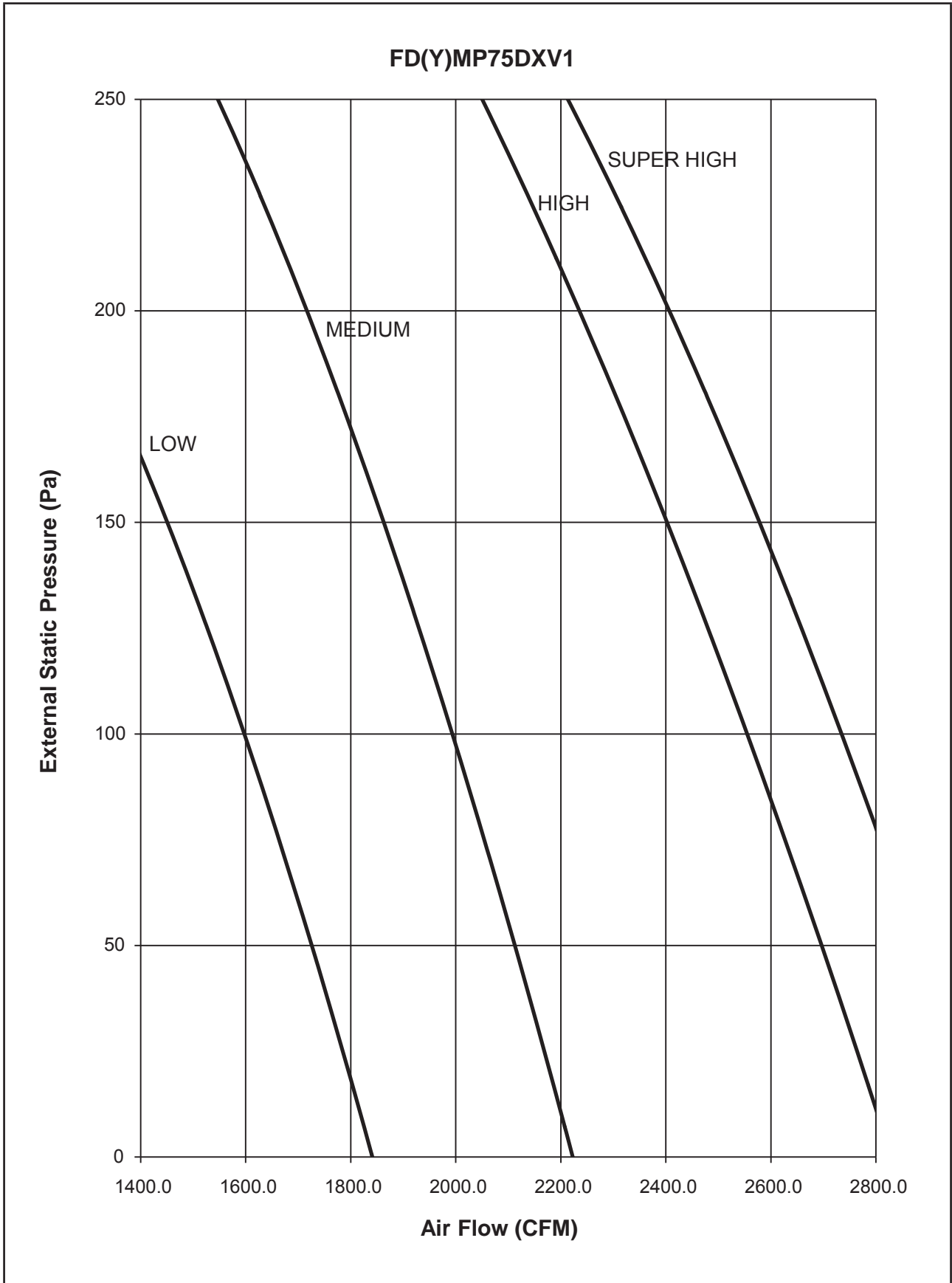
Model	Pulley Centre Distance, C		Motor (kW)	Motor RPM
	Horizontal	Vertical		
FDP125DXY1	180	-	1.5	1425
FDP150DXY1	180	-	1.5	1425
2FDP150DXY1	180	-	1.5	1425
2FDP200DXY1	515	410	3.0	1430
2FGP250DXY1	580	480	4.0	1440
2FGP300DXY1	615	495	5.5	1445
4FGP400DXY1	780	630	7.5	1445
4FGP500DXY1	820	650	11.0	1450

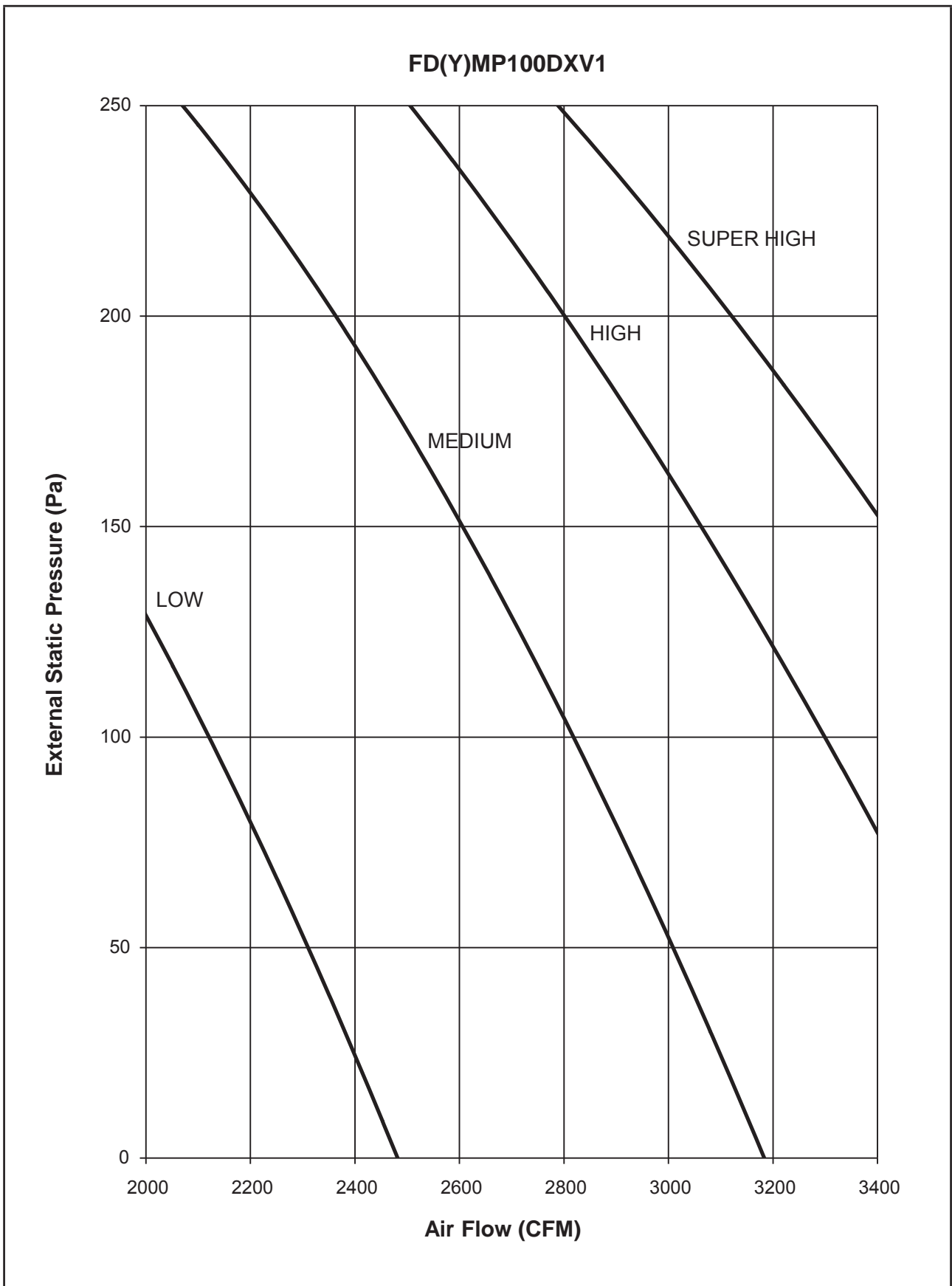
Model	Pulley Centre Distance, C		Motor (kW)	Motor RPM
	Horizontal	Vertical		
FDYP125EXY1	180	-	1.5	1425
FDYP150EXY1	180	-	1.5	1425
2FDYP150EXY1	180	-	1.5	1425
2FDYP200EXY1	314	330	3	1430
2FGYP250EXY1	599	623	4	1440
2FGYP300EXY1	599	623	4	1440
3FGYP300EXY1	599	623	4	1440
3FGYP350EXY1	840	870	5.5	1445
4FGYP400EXY1	732	782	5.5	1445
3FGYP450EXY1	738	768	7.5	1445
4FGYP500EXY1	700	751	11	1445
4FGYP600EXY1	300	490	11	1450

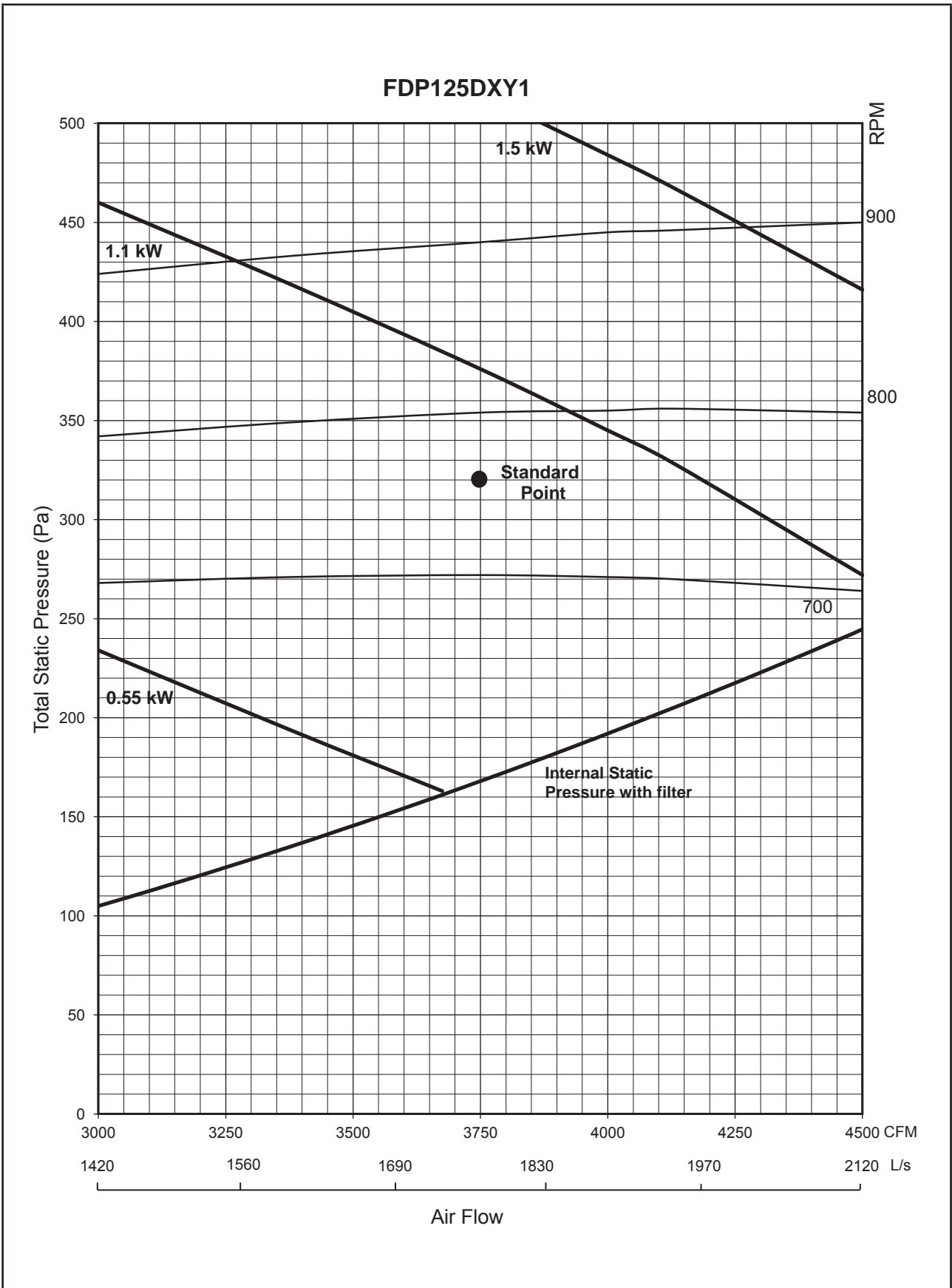
Example 1:

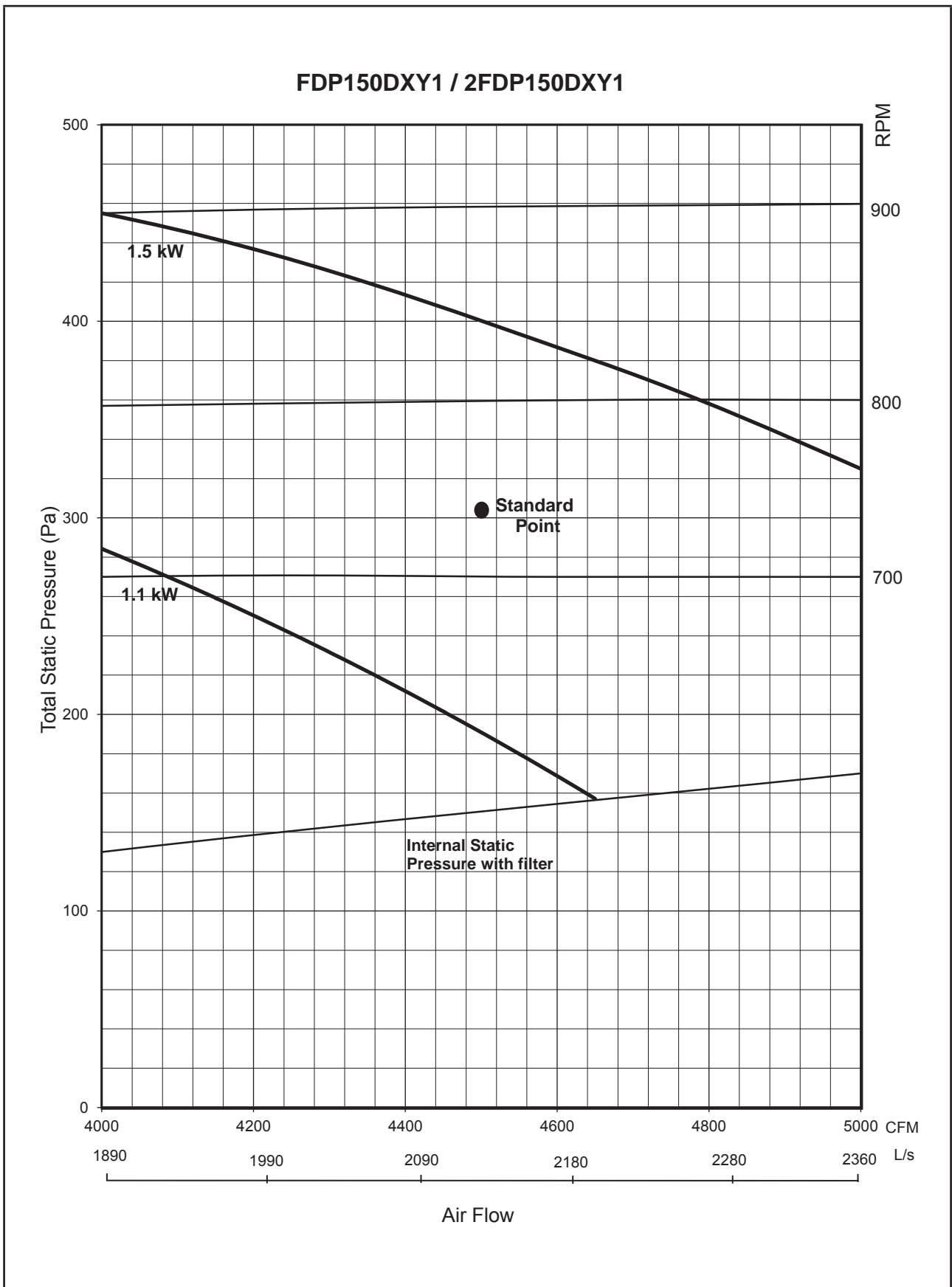


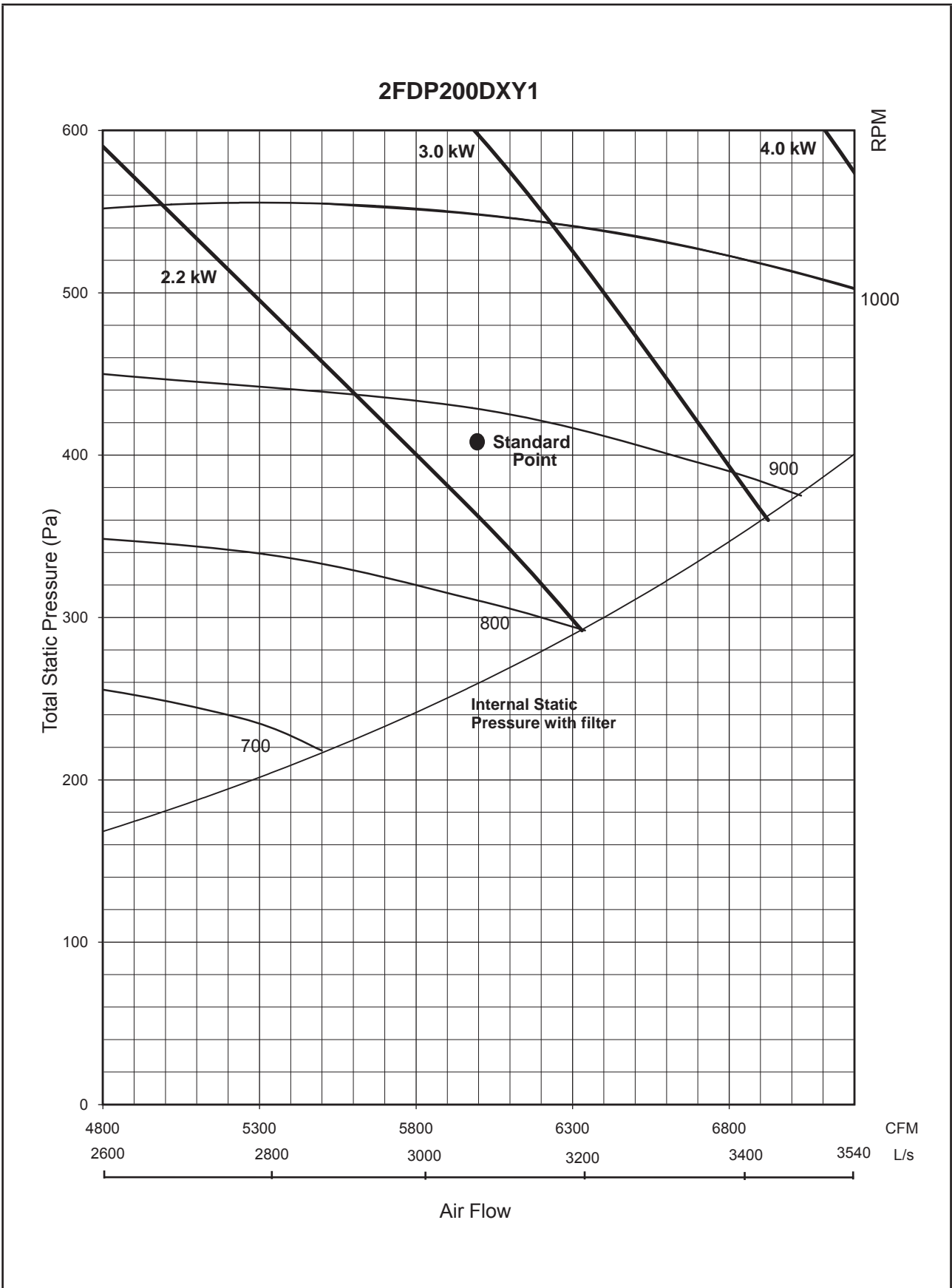
### FAN PERFORMANCE CURVE

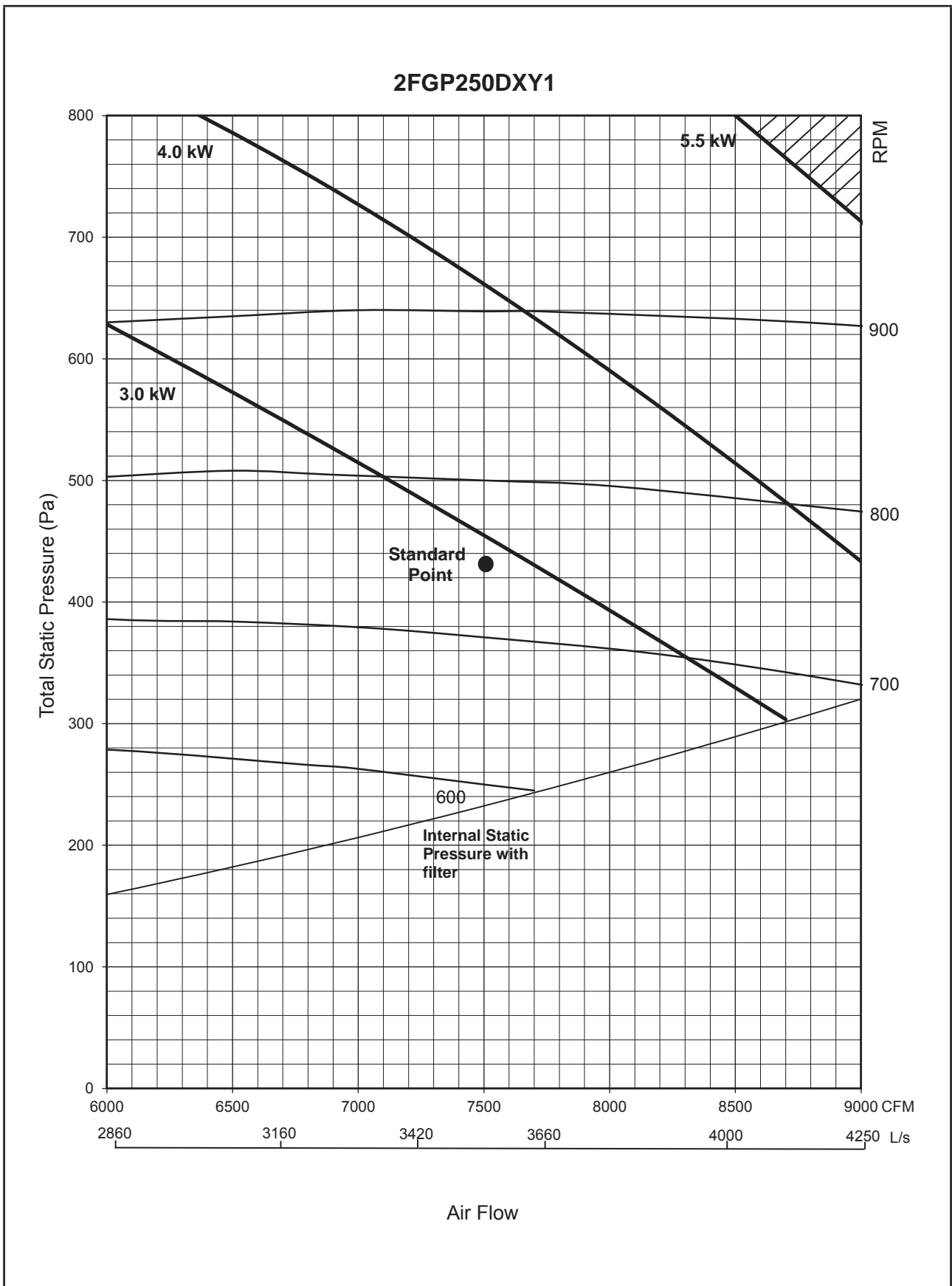


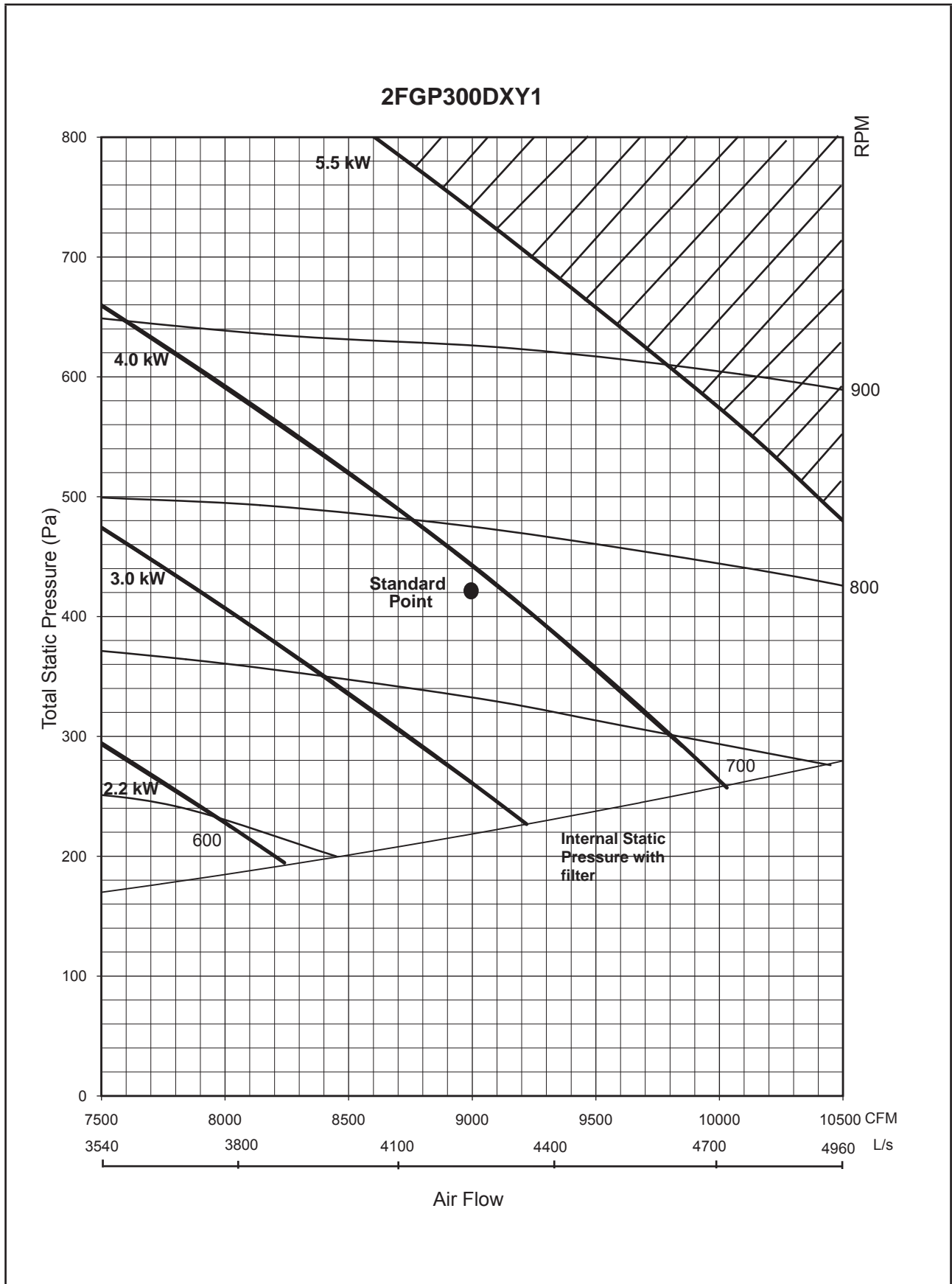


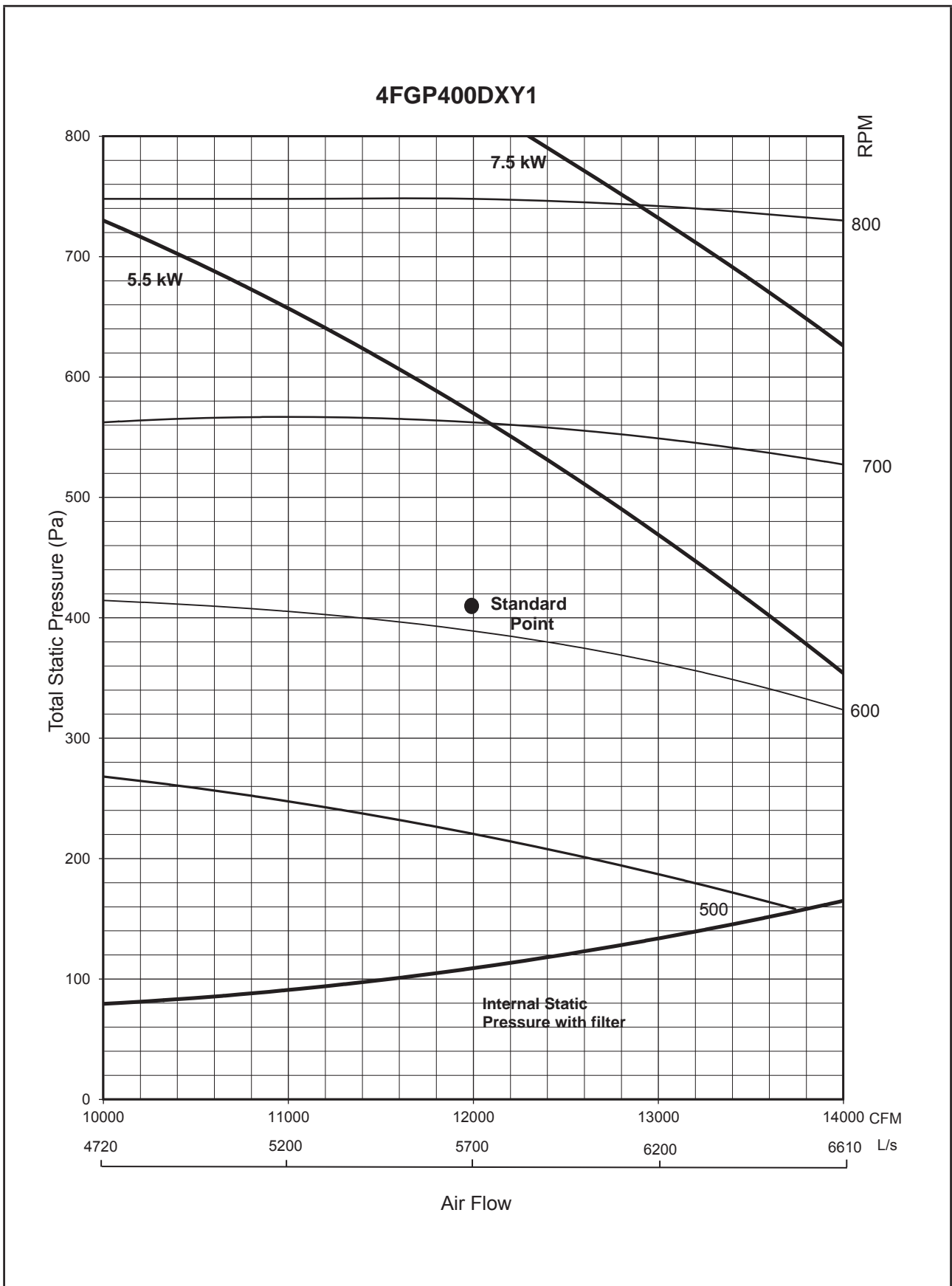


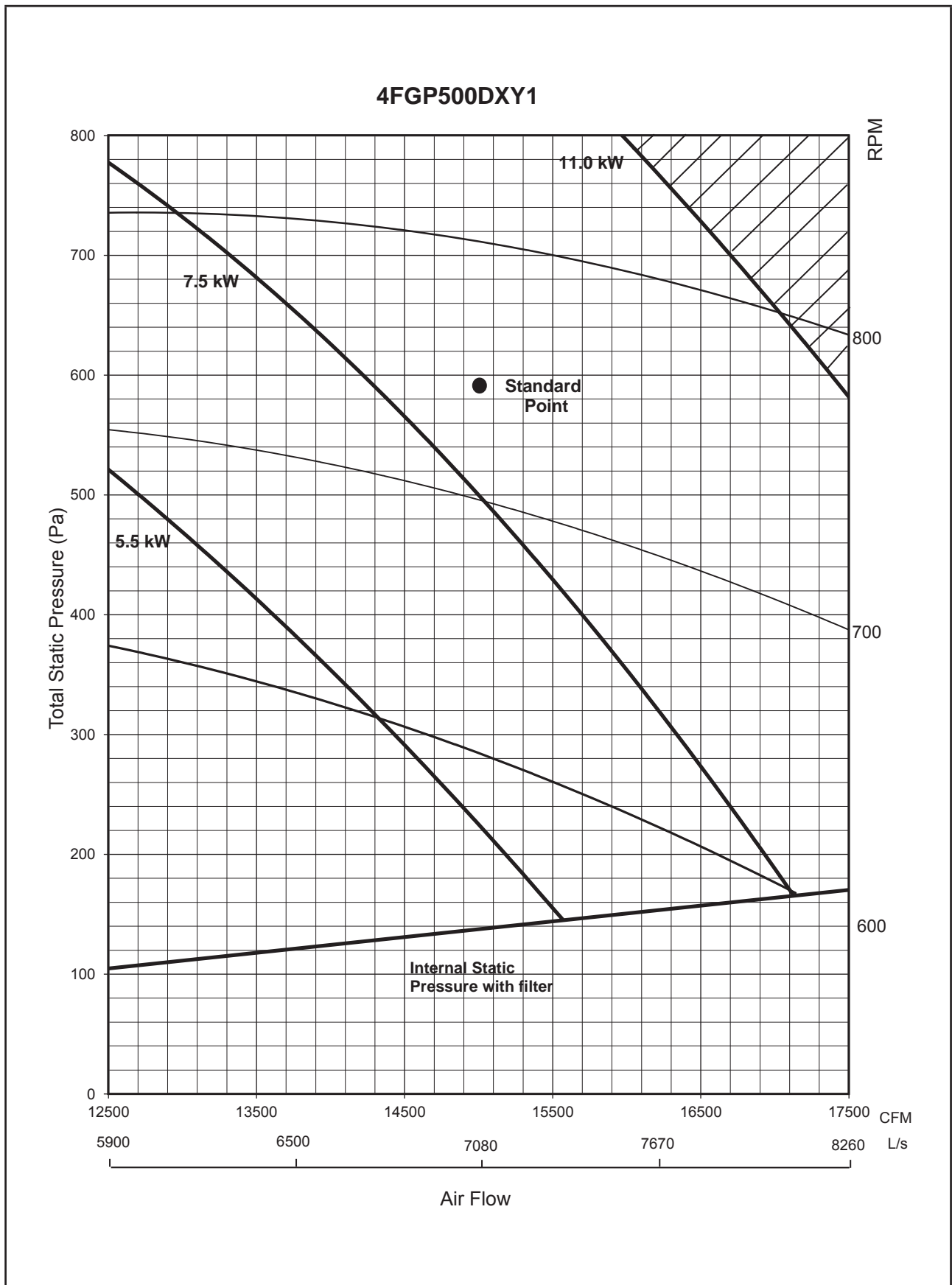


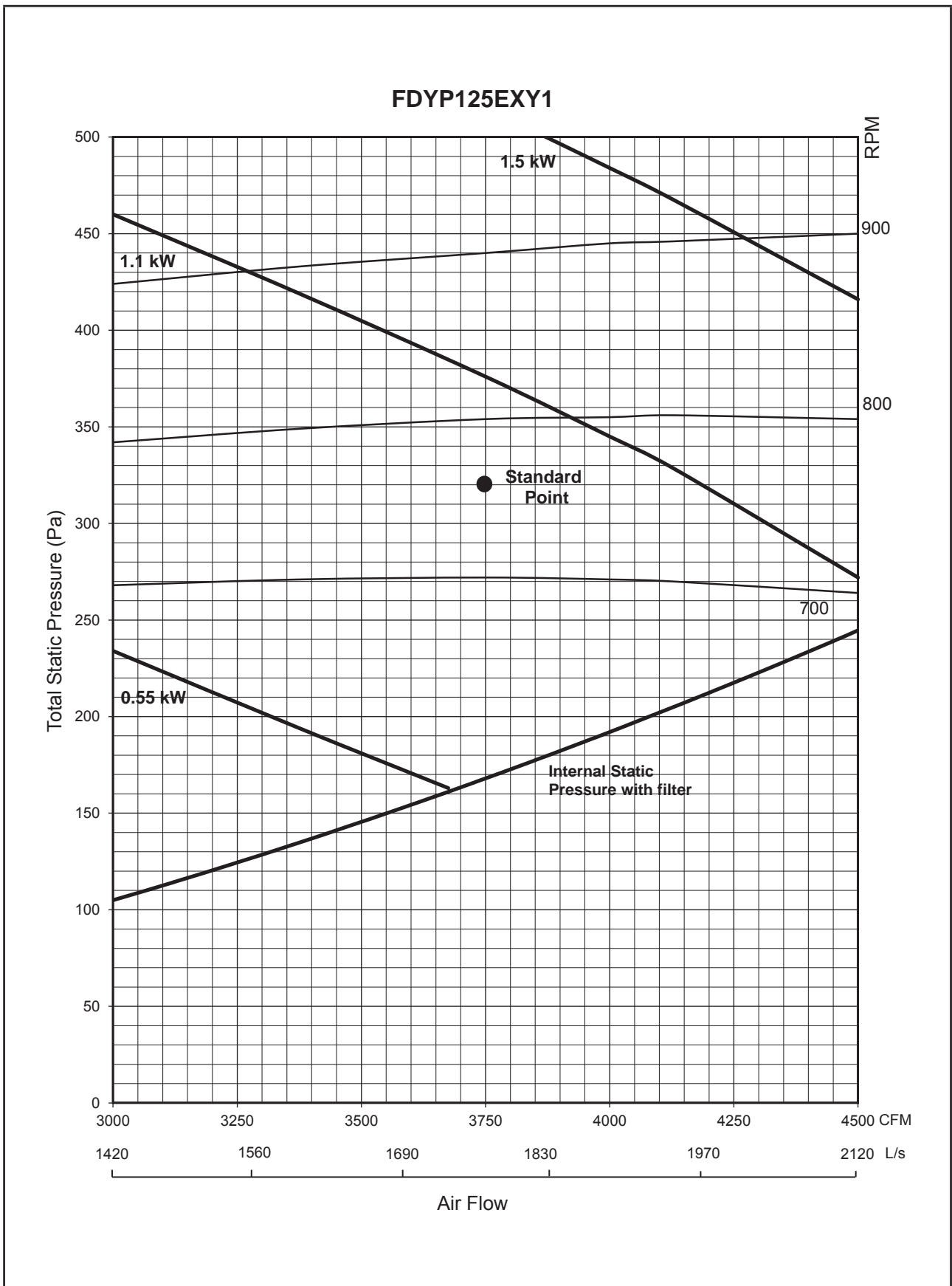


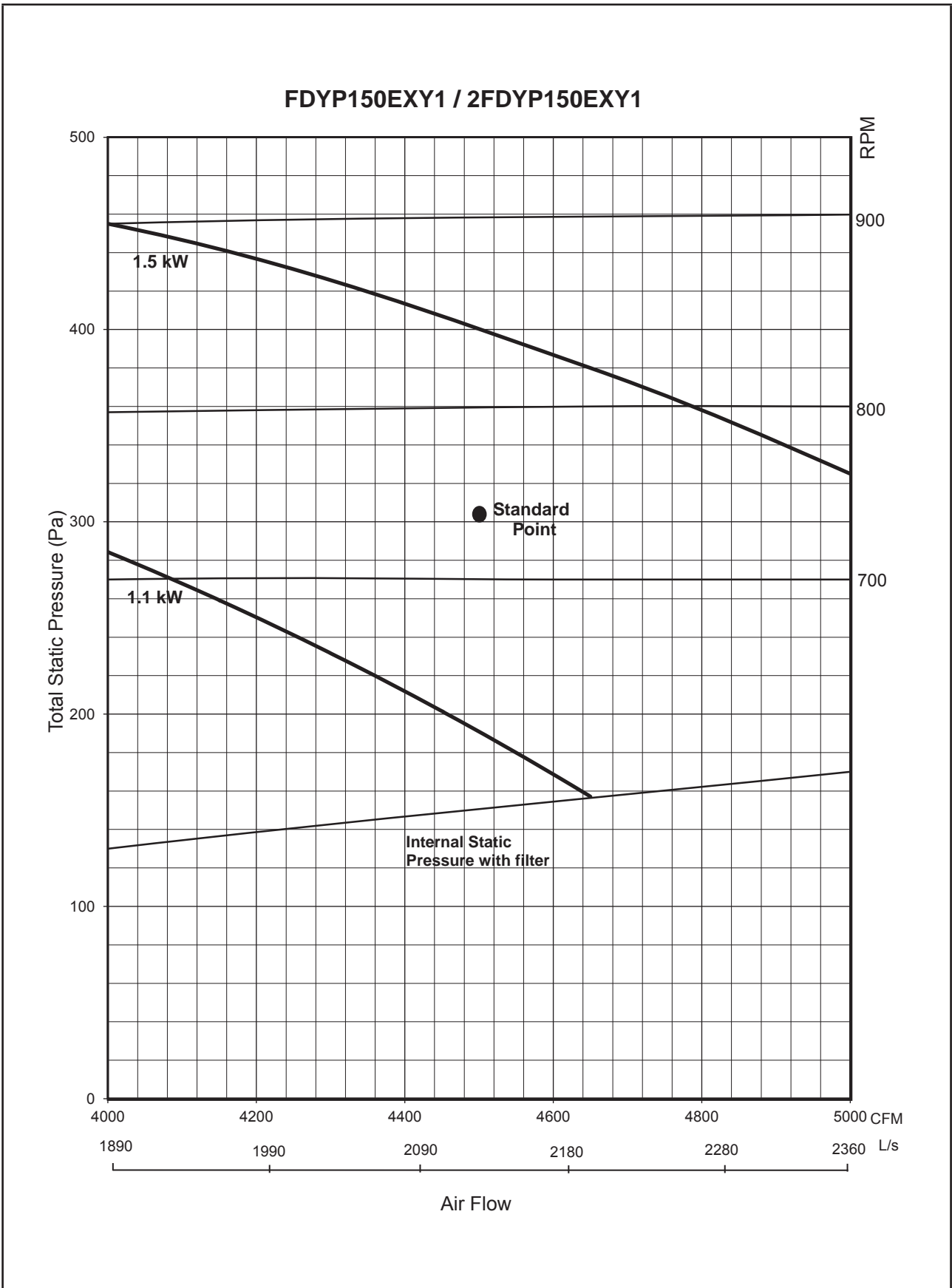




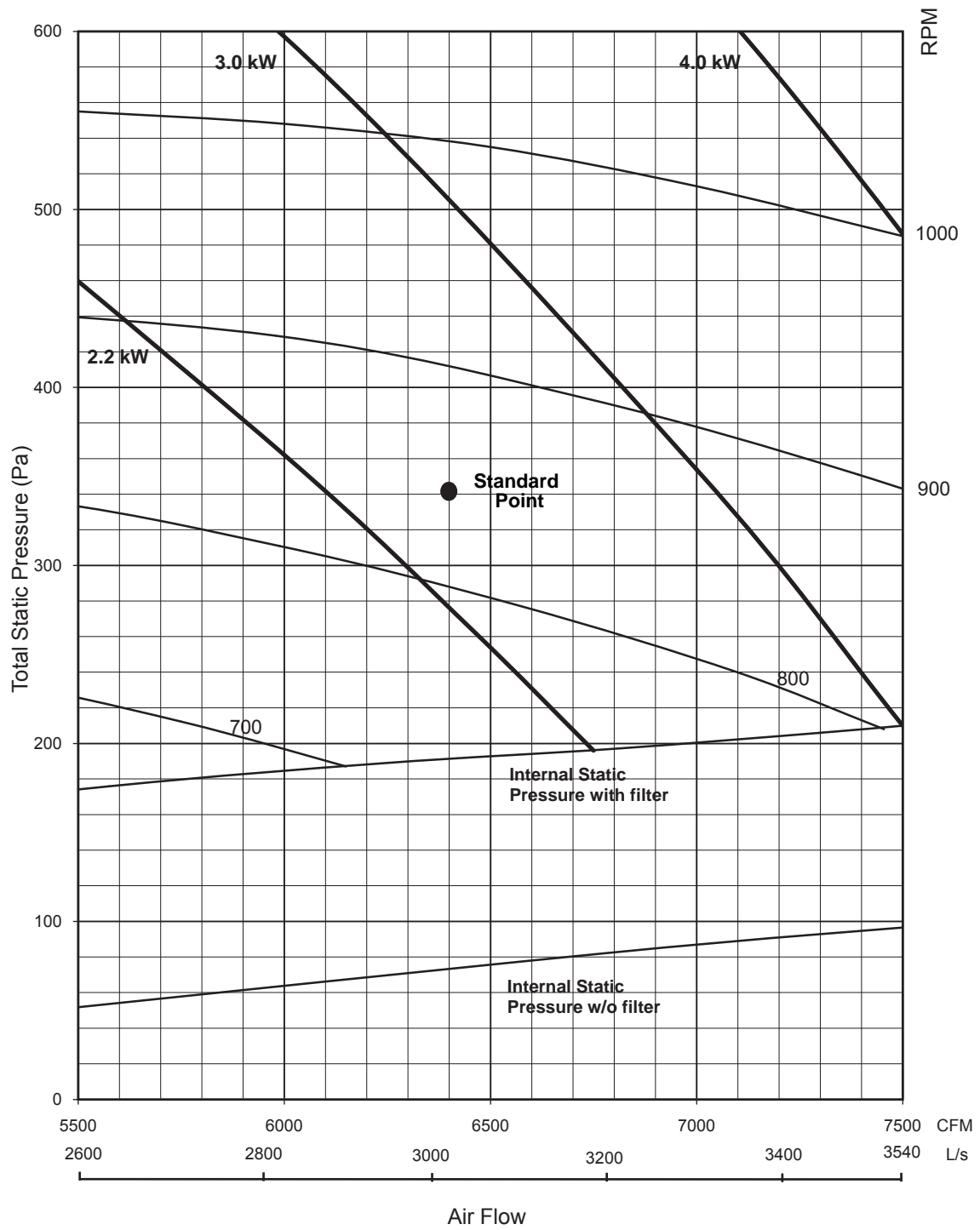


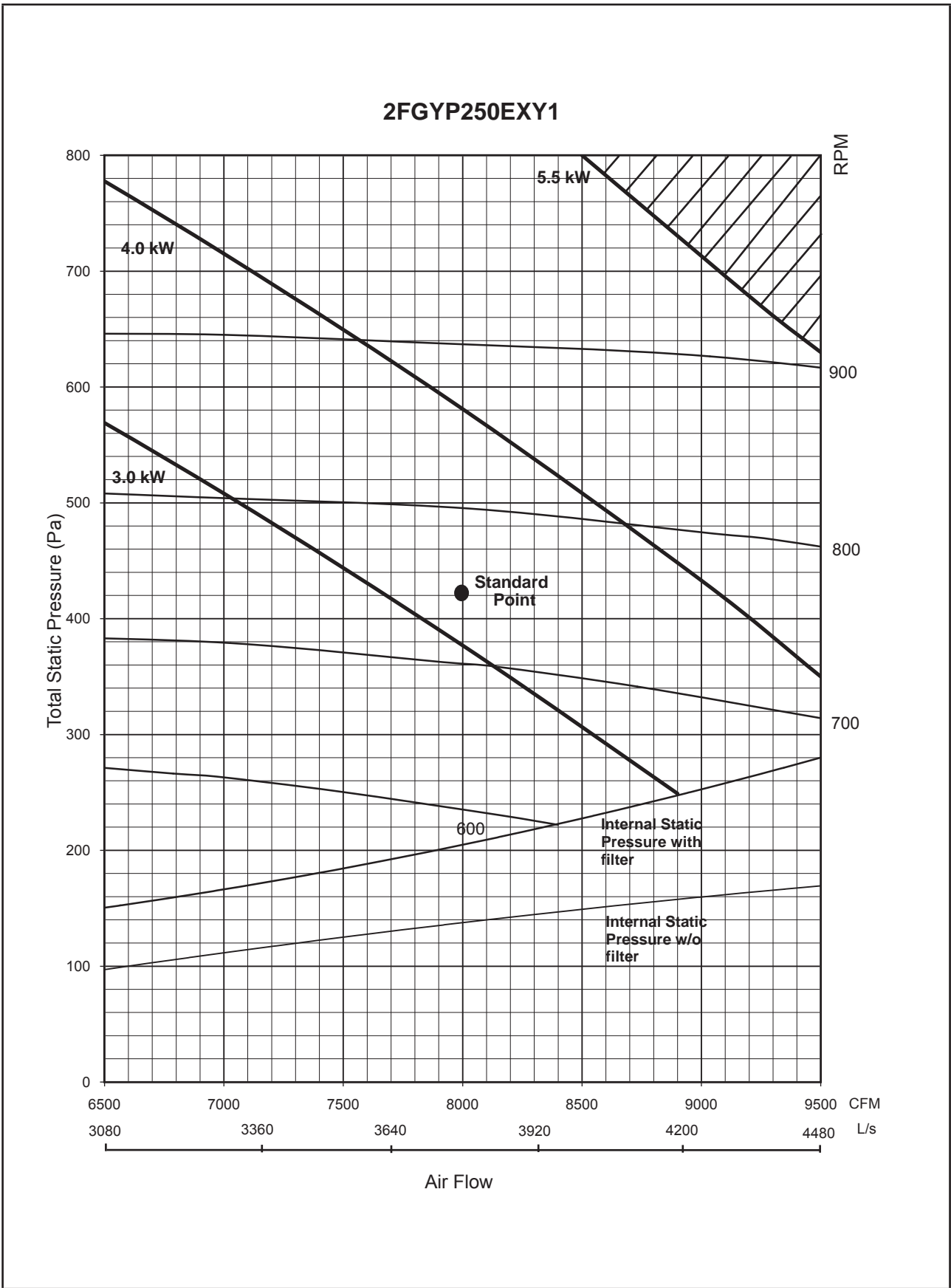




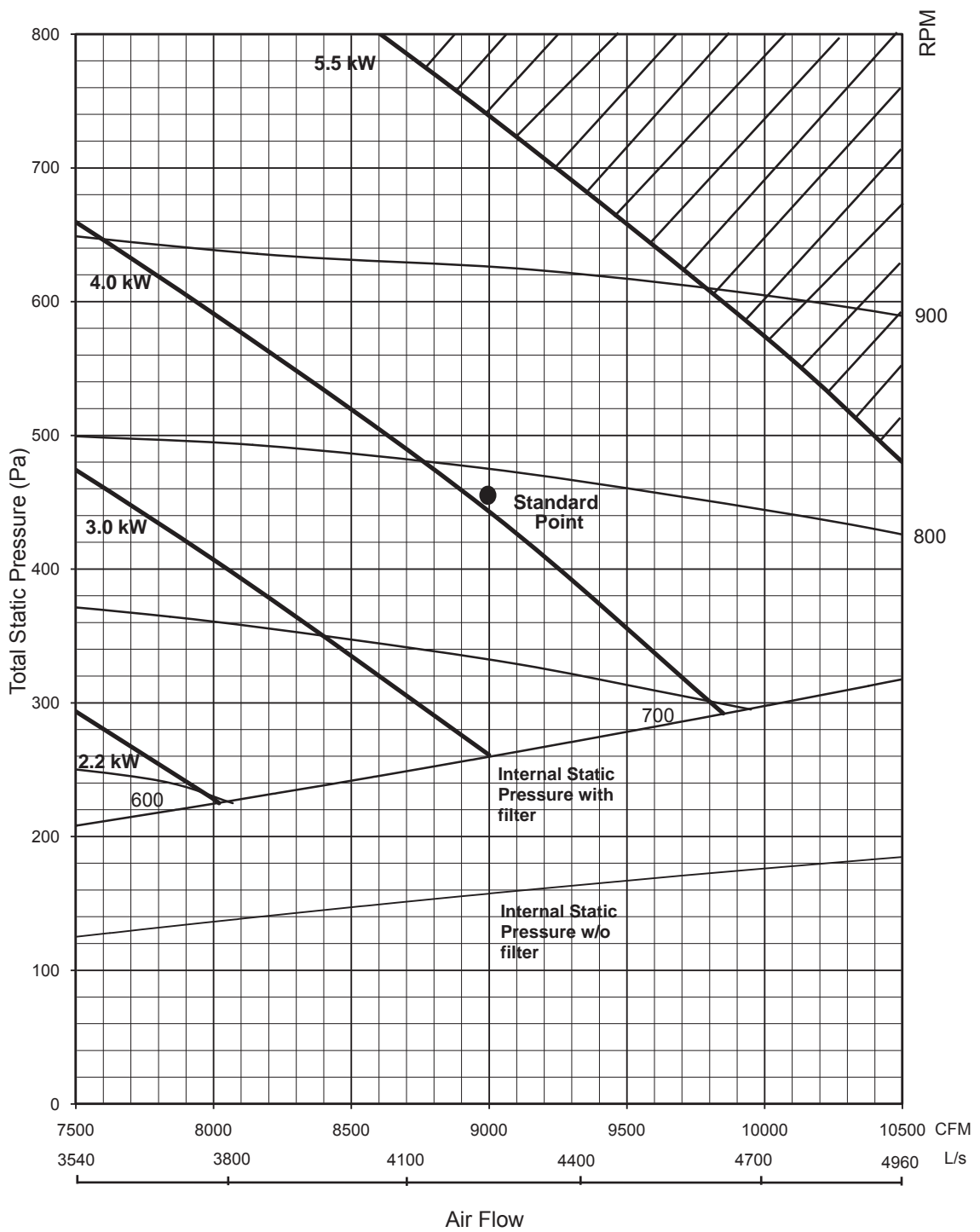


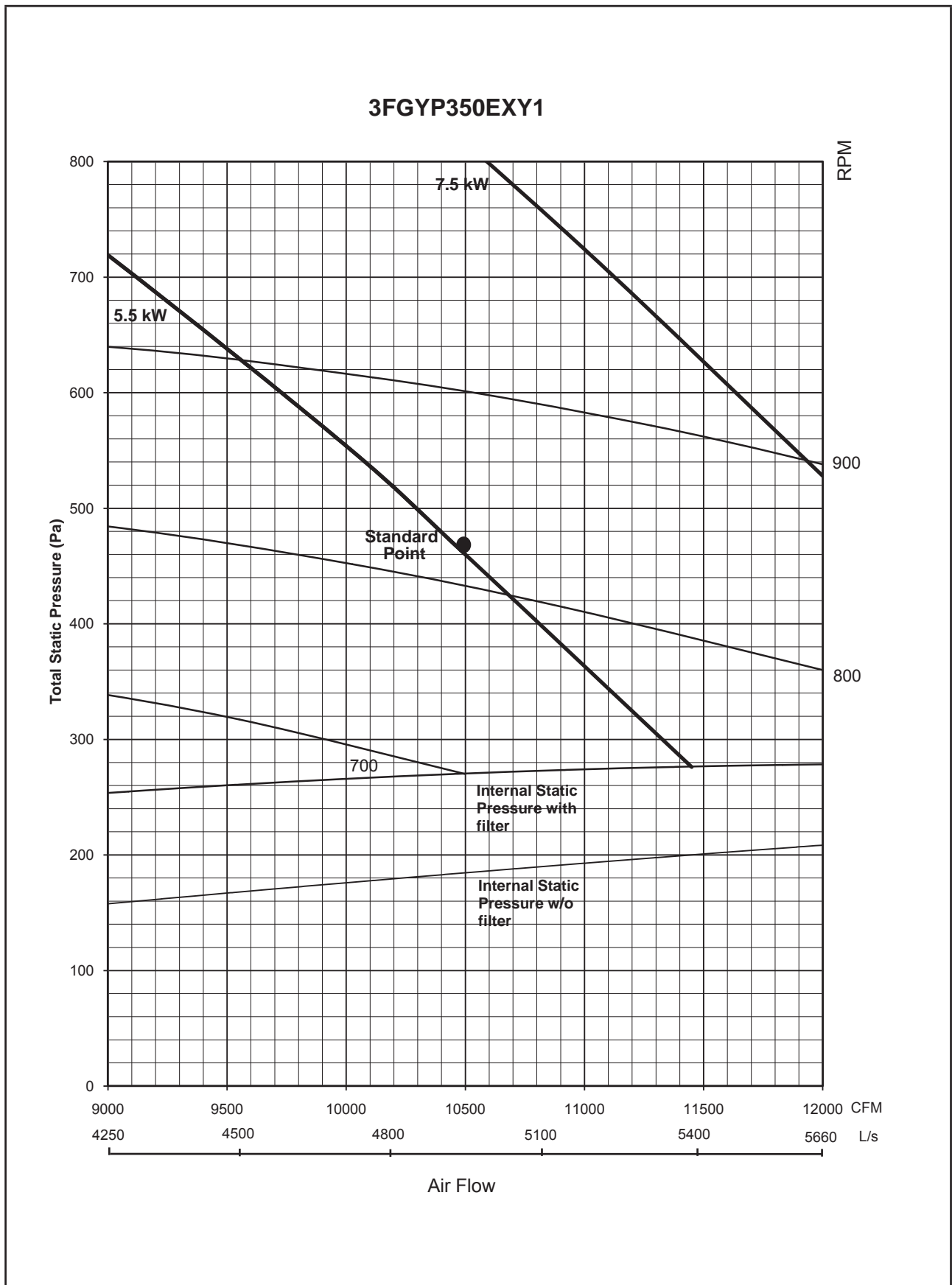
### 2FDYP200EXY1



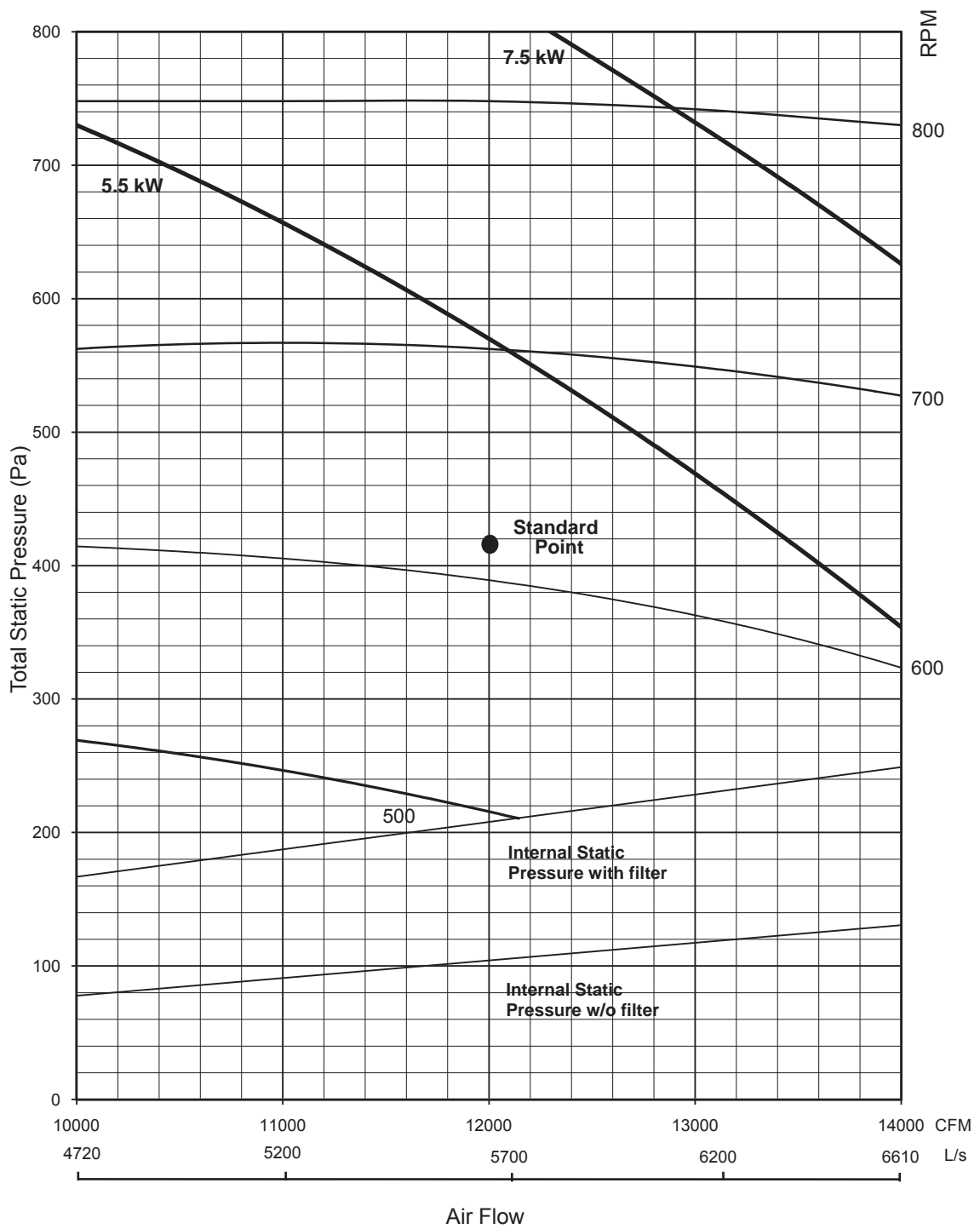


2FGYP300EXY1 / 3FGYP300EXY1

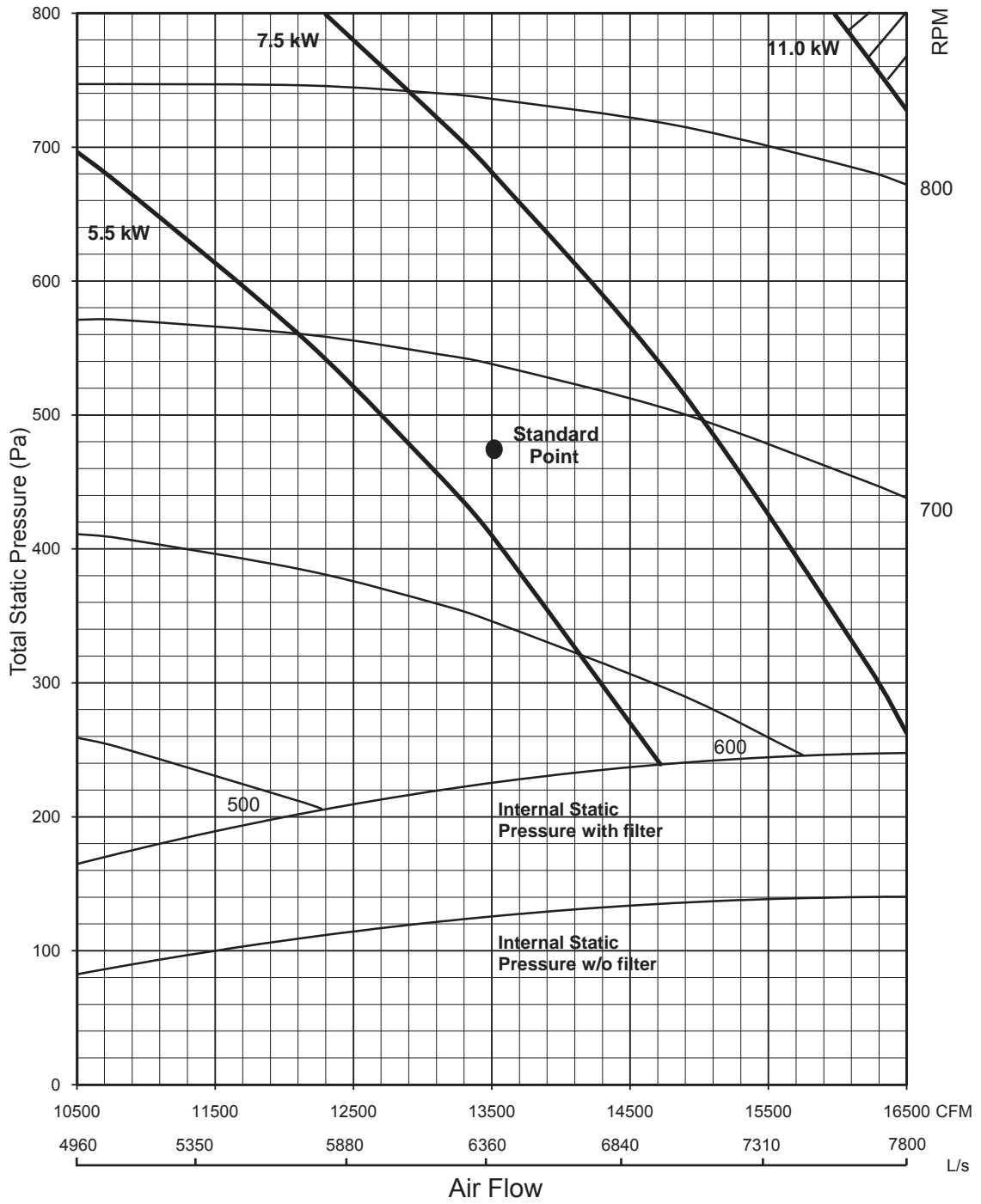




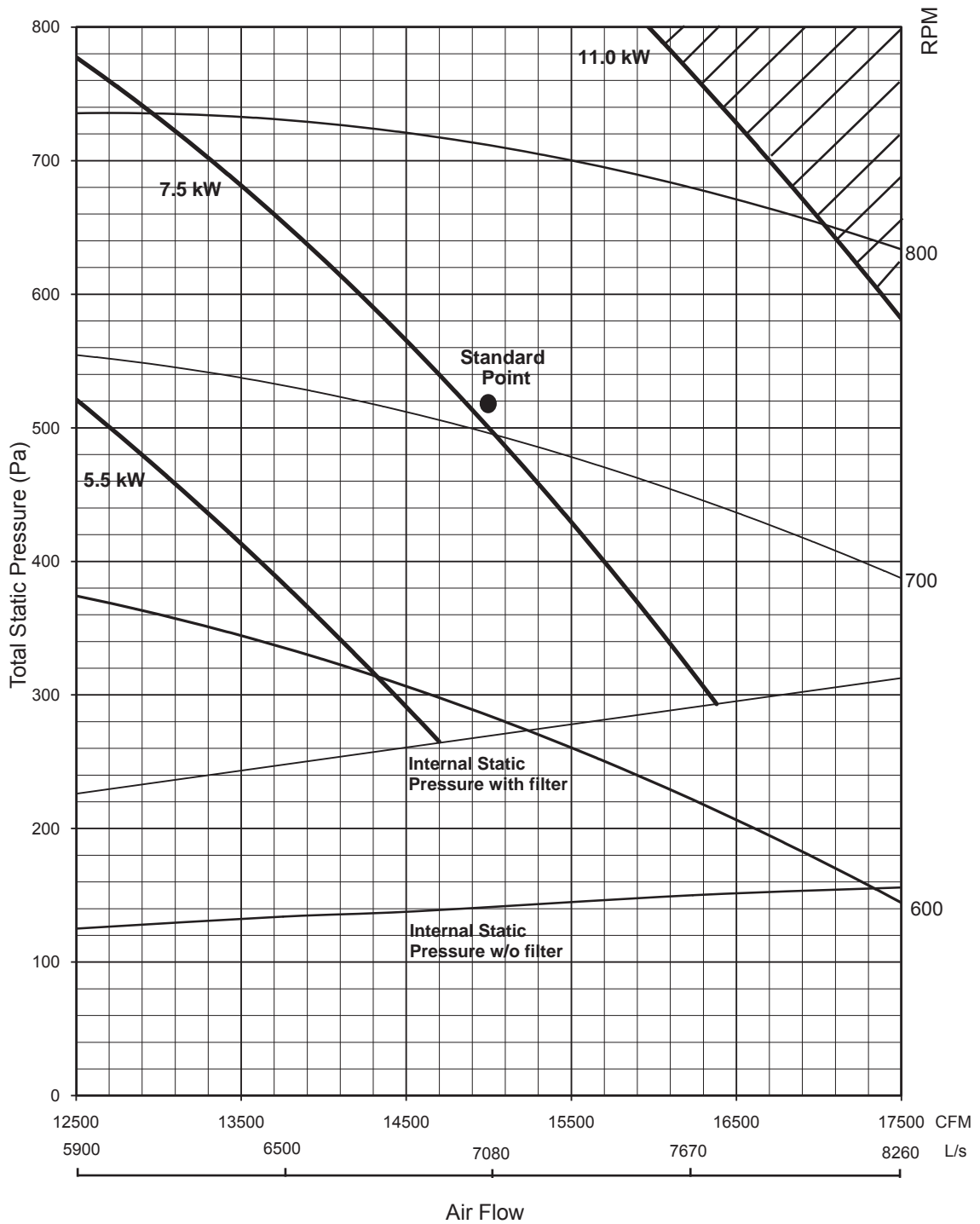
### 4FGYP400EXY1

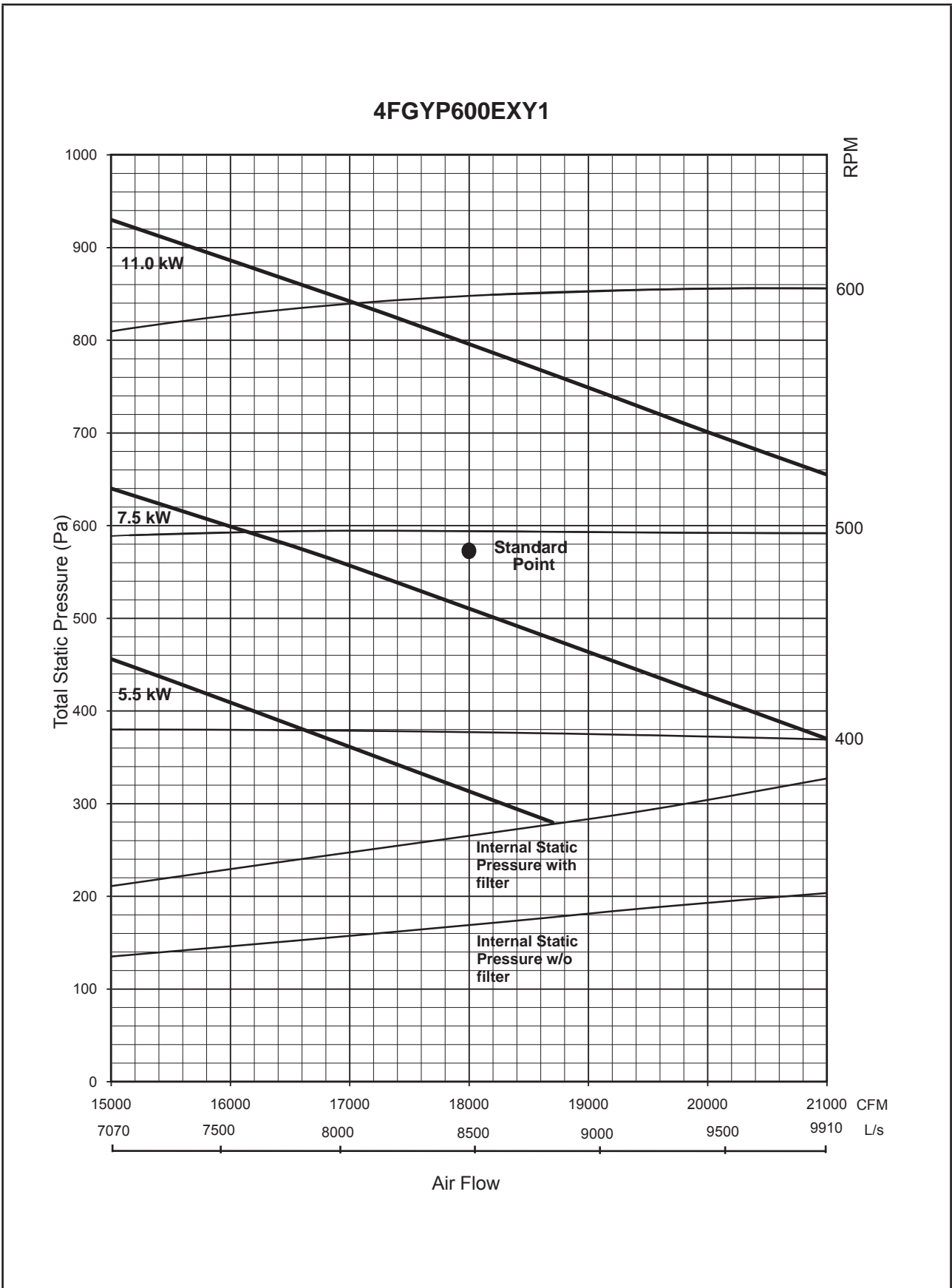


### 3FGYP450EXY1



### 4FGYP500EXY1





# Engineering & Physical Data

## Engineering Data – R407C COOLING MODEL

MODEL	INDOOR UNIT		FDMP75DXV1	FDMP100DXV1	FDP125DXY1	FDP150DXY1	
	OUTDOOR UNIT		RCP75DXY1	RCP100DXY1	RCP125DXY1	RCP150DXY1	
NOMINAL COOLING CAPACITY	Btu/h		75000	100000	108000	145000	
	W		21980	29310	31640	42500	
NOMINAL TOTAL INPUT POWER (COOLING)	W		8080	11040	12100	16239	
NOMINAL RUNNING CURRENT (COOLING)	A		15.10	19.00	21.70	28.40	
EER	W/W		2.72	2.65	2.61	2.62	
REFRIGERANT CONTROL (EXPANSION DEVICE)			INDOOR TXV				
REFRIGERANT CHARGE			kg	6.50	9.50	10.10	
POWER SOURCE			V/Ph/Hz	380-415 / 3 / 50			
REFRIGERANT TYPE			R407C				
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION		HORIZONTAL		
			WIRED HANDSET BRC51A62		WIRED HANDSET BRC51B64		
	AIR FLOW	SUPER HIGH		CFM	2250	3000	N/A
		HIGH		CFM	1950	2600	3750
		MEDIUM		CFM	1600	2100	N/A
		LOW		CFM	1250	1700	N/A
	EXTERNAL STATIC PRESSURE (SH/H/M/L)		Pa	196 / 179 / 125 / 89	196 / 172 / 139 / 91	150	
	SOUND PRESSURE LEVEL (SH/H/M/L)		dBA	52 / 52 / 48 / 43	55 / 54 / 52 / 48	58	59
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	430 X 1370 X 710	430 X 1599 X 710	710 X 1694 X 775	710 X 1973 X 775
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	612 X 1535 X 974	612 X 1765 X 974	892 X 1894 X 1111	892 X 2214 X 1111
	UNIT WEIGHT		kg	92	119	155	175
	CONDENSATE DRAIN SIZE		mm	25.40			
	FAN	TYPE		CENTRIFUGAL			
		DRIVE		DIRECT		BELT DRIVEN	
	FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR		INDUCTION	
		INDEX OF PROTECTION (IP)		IP54			
		INSULATION GRADE		CLASS B		CLASS F	
		RATED INPUT POWER	W	1182	1254	1420	1740
		RATED RUNNING CURRENT	A	4.99	5.79	3.00	3.30
		MOTOR OUTPUT	W	750	1000	1500	1500
COIL	TUBE	MATERIAL	COPPER				
		DIAMETER	9.52				
	FIN	MATERIAL	ALUMINIUM				
		FACE AREA	m <sup>2</sup>	0.45	0.55	0.89	1.06
AIR QUALITY	FILTER	TYPE	SARANET	SARANET	WASHABLE VILEDON		
		QUANTITY	pc	2	2	3	3
CASING		COLOUR	LIGHT GREY				
OUTDOOR UNIT	AIR FLOW		CFM	7000	7000	10000	10000
	SOUND PRESSURE LEVEL		dBA	64	64	66	67
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1041 X 981 X 981	1041 X 981 X 981	1142 X 1083 X 1083	1142 X 1083 X 1083
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1224 X 1175 X 1150	1224 X 1175 X 1150	1326 X 1277 X 1252	1326 X 1277 X 1252
	UNIT WEIGHT		kg	170	184	197	268
	PIPE CONNECTION	SIZE	TYPE	BRAZED			
			LIQUID	mm	12.70	15.88	15.88
	FAN	DRIVE		PROPELLER			
		TYPE		INDUCTION			
	FAN MOTOR	INDEX OF PROTECTION (IP)		IP54			
		INSULATION GRADE		CLASS F			
		RATED INPUT POWER	W	600	600	880	880
		RATED RUNNING CURRENT	A	1.00	1.00	1.73	1.73
		MOTOR OUTPUT	W	350		560	560
	COMPRESSOR	TYPE		SCROLL			
		INSULATION GRADE		CLASS F			
		OIL TYPE		POE			
		OIL AMOUNT	cm <sup>3</sup>	2510	3250	3250	4140
		RATED INPUT POWER	W	6298	9186	9800	13619
	RATED RUNNING CURRENT	A	12.44	16.07	17.00	23.40	
LOCKED ROTOR AMP.	A	95.00	118.00	118.00	174.00		
COIL	TUBE	MATERIAL	COPPER				
		DIAMETER	9.52				
	FIN	MATERIAL	ALUMINIUM				
		FACE AREA	m <sup>2</sup>	2.29	2.29	2.54	2.82
CASING	COLOUR	ROW	1	2	2	2	
		LIGHT GREY					

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING		HEATING	
INDOOR: 27°C DB/ 19°C WB		INDOOR: 20°C DB	
OUTDOOR: 35°C DB/ 24°C WB		OUTDOOR: 7°C DB/ 6°C WB	

### Engineering Data – R407C COOLING MODEL

MODEL	INDOOR UNIT		2FDP150DX1	2FDP200DX1	2FGP250DX1	2FGP300DX1		
	OUTDOOR UNIT		RCP75DX1 x 2	RCP100DX1 x 2	RCP125DX1 x 2	RCP150DX1 x 2		
NOMINAL COOLING CAPACITY		Btu/h	146000	182000	216000	290000		
		W	42790	53340	63310	84990		
	NOMINAL TOTAL INPUT POWER (COOLING)	W	15536	22372	25660	33998		
	NOMINAL RUNNING CURRENT (COOLING)	A	30.20	39.50	45.20	59.20		
EER		W/W	2.75	2.38	2.47	2.50		
REFRIGERANT CONTROL (EXPANSION DEVICE)			INDOOR TXV					
REFRIGERANT CHARGE		kg	6.50 x 2	9.50 x 2	10.1 x 2	9.00 x 2		
POWER SOURCE		V/Ph/Hz	380-415 / 3 / 50					
REFRIGERANT TYPE			R407C					
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION		HORIZONTAL		VERTICAL	
	AIR FLOW		CFM	4500	6000	7500	9000	
	EXTERNAL STATIC PRESSURE		Pa	150	150	200	200	
	SOUND PRESSURE LEVEL		dBA	59	60	62	65	
	UNIT DIMENSION		HEIGHT X WIDTH X DEPTH	mm	710 X 1973 X 775	821 X 1113 X 1064	922 X 1202 X 1226	922 X 1405 X 1226
	PACKING DIMENSION		HEIGHT X WIDTH X DEPTH	mm	892 X 2214 X 1111	1054 X 1424 X 1370	1156 X 1586 X 1459	1156 X 1586 X 1662
	UNIT WEIGHT		kg	175	248	321	394	
	CONDENSATE DRAIN SIZE		mm	25.40				
	FAN		TYPE	CENTRIFUGAL				
			DRIVE	BELT DRIVEN				
			TYPE	INDUCTION				
			INDEX OF PROTECTION (IP)	IP54				
			INSULATION GRADE	CLASS F				
	FAN MOTOR		RATED INPUT POWER	W	1740	2800	4300	5000
			RATED RUNNING CURRENT	A	3.30	5.40	7.80	9.00
			MOTOR OUTPUT	W	1500	3000	4000	5500
			POLES		4	4	4	4
	COIL		TUBE	MATERIAL	COPPER			
				DIAMETER	9.52			
			FIN	MATERIAL	ALUMINIUM			
			FACE AREA	1.06	1.43	1.77	2.12	
			ROW	3	3	3	3	
AIR QUALITY		FILTER	TYPE	WASHABLE VILEDON				
			QUANTITY	3	8	8	8	
CASING			COLOUR	LIGHT GREY				
OUTDOOR UNIT	AIR FLOW		CFM	7000	7000	10000	10000	
	SOUND PRESSURE LEVEL		dBA	64	64	66	67	
	UNIT DIMENSION		HEIGHT X WIDTH X DEPTH	mm	1041 X 981 X 981	1041 X 981 X 981	1142 X 1083 X 1083	1142 X 1083 X 1083
	PACKING DIMENSION		HEIGHT X WIDTH X DEPTH	mm	1224 X 1175 X 1150	1224 X 1175 X 1150	1326 X 1277 X 1252	1326 X 1277 X 1252
	UNIT WEIGHT		kg	170	184	197	268	
	PIPE CONNECTION		TYPE	BRAZED				
			SIZE	LIQUID	mm	12.70	15.88	15.88
				GAS	mm	25.40	28.58	34.92
	FAN		TYPE	PROPELLER				
			DRIVE	DIRECT				
			TYPE	INDUCTION				
			INDEX OF PROTECTION (IP)	IP54				
			INSULATION GRADE	CLASS F				
	FAN MOTOR		RATED INPUT POWER	W	600	600	880	880
			RATED RUNNING CURRENT	A	1.00	1.00	1.73	1.73
			MOTOR OUTPUT	W	350	350	560	560
	COMPRESSOR		TYPE	SCROLL				
			INSULATION GRADE	CLASS F				
			OIL TYPE	POE				
			OIL AMOUNT	cm <sup>3</sup>	2510	3250	3250	4140
		RATED INPUT POWER	W	6298	9186	9800	13619	
		RATED RUNNING CURRENT	A	12.44	16.07	17.00	23.40	
		LOCKED ROTOR AMP.	A	95.00	118.00	118.00	174.00	
COIL		TUBE	MATERIAL	COPPER				
			DIAMETER	9.52				
		FIN	MATERIAL	ALUMINIUM				
			FACE AREA	2.29	2.26	2.54	2.82	
			ROW	1	2	2	2	
CASING			COLOUR	LIGHT GREY				

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB/ 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB/ 24°C WB	OUTDOOR: 7°C DB/ 6°C WB

## Engineering Data – R407C COOLING MODEL

MODEL	INDOOR UNIT	4FGP400DXY1	4FGP500DXY1		
	OUTDOOR UNIT	RCP100DXY1 x 4	RCP125DXY1 x 4		
NOMINAL COOLING CAPACITY	Btu/h	364000	432000		
	W	106680	126610		
NOMINAL TOTAL INPUT POWER (COOLING)	W	45044	53820		
NOMINAL RUNNING CURRENT (COOLING)	A	79.30	93.10		
EER	W/W	2.37	2.35		
REFRIGERANT CONTROL (EXPANSION DEVICE)		INDOOR TXV			
REFRIGERANT CHARGE	kg	9.50 x 4	10.10 x 4		
POWER SOURCE	V/Ph/Hz	380-415 / 3 / 50			
REFRIGERANT TYPE		R407C			
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION	VERTICAL WIRED HANDSET BRC51C61		
	AIR FLOW	CFM	12000 15000		
	EXTERNAL STATIC PRESSURE	Pa	300 450		
	SOUND PRESSURE LEVEL	dBA	66 67		
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1115 X 1596 X 1462 1115 X 1952 X 1462	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1349 X 1822 X 1852 1349 X 1822 X 2208	
	UNIT WEIGHT	kg	470 567		
	CONDENSATE DRAIN SIZE	mm	25.40		
	FAN	TYPE	CENTRIFUGAL		
		DRIVE	BELT DRIVEN		
	FAN MOTOR	TYPE	INDUCTION		
		INDEX OF PROTECTION (IP)	IP54		
		INSULATION GRADE	CLASS F		
		RATED INPUT POWER	W	5900 11100	
		RATED RUNNING CURRENT	A	11.00 18.30	
	MOTOR OUTPUT	W	7500 11000		
	POLES		4 4		
	COIL	TUBE	MATERIAL	COPPER	
			DIAMETER	mm	9.52
		FIN	MATERIAL	ALUMINIUM	
		FACE AREA	m <sup>2</sup>	2.89 3.61	
	ROW		3 3		
AIR QUALITY	FILTER	TYPE	WASHABLE VILEDON		
		QUANTITY	pc	12 12	
CASING		COLOUR	LIGHT GREY		
OUTDOOR UNIT	AIR FLOW	CFM	7000 10000		
	SOUND PRESSURE LEVEL	dBA	64 66		
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1041 X 981 X 981 1142 X 1083 X 1083	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1224 X 1175 X 1150 1326 X 1277 X 1252	
	UNIT WEIGHT	kg	184 197		
	PIPE CONNECTION	SIZE	TYPE	BRAZED	
			LIQUID	mm	15.88 15.88
			GAS	mm	28.58 34.92
	FAN	TYPE	PROPELLER		
		DRIVE	DIRECT		
	FAN MOTOR	TYPE	INDUCTION		
		INDEX OF PROTECTION (IP)	IP54		
		INSULATION GRADE	CLASS F		
		RATED INPUT POWER	W	600 880	
		RATED RUNNING CURRENT	A	1.00 1.73	
	MOTOR OUTPUT	W	350 560		
	COMPRESSOR	TYPE	SCROLL		
		INSULATION GRADE	CLASS F		
		OIL TYPE	POE		
		OIL AMOUNT	cm <sup>3</sup>	3250 3250	
RATED INPUT POWER		W	9186 9800		
RATED RUNNING CURRENT	A	16.07 17.00			
LOCKED ROTOR AMP.	A	118.00 118.00			
COIL	TUBE	MATERIAL	COPPER		
		DIAMETER	mm	9.52	
	FIN	MATERIAL	ALUMINIUM		
		FACE AREA	m <sup>2</sup>	2.26 2.54	
	ROW		2 2		
CASING		COLOUR	LIGHT GREY		

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB/ 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB/ 24°C WB	OUTDOOR: 7°C DB/ 6°C WB

## Engineering Data – R407C HEATPUMP MODEL

MODEL	INDOOR UNIT		FDYMP75DXV1	FDYMP100DXV1	FDYP125EXY1	FDYP150EXY1		
	OUTDOOR UNIT		RCYP75EXY1	RCYP100EXY1	RCYP125EXY1	RCYP150EXY1		
NOMINAL COOLING CAPACITY	Btu/h		75000	100000	108000	145000		
	W		21980	29310	31650	42500		
NOMINAL HEATING CAPACITY	Btu/h		84000	110000	124000	150000		
	W		24620	32240	36340	43960		
NOMINAL TOTAL INPUT POWER (COOLING)	W		8080	11550	12150	15244		
NOMINAL TOTAL INPUT POWER (HEATING)	W		8305	10670	11100	14060		
NOMINAL RUNNING CURRENT (COOLING)	A		15.10	20.50	22.40	27.50		
NOMINAL RUNNING CURRENT (HEATING)	A		14.90	19.30	20.30	25.80		
EER	W/W		2.72	2.54	2.60	2.79		
COP	W/W		2.96	3.02	3.27	3.13		
REFRIGERANT CONTROL (EXPANSION DEVICE)			INDOOR TXV (COOLING) & OUTDOOR TXV (HEATING)					
REFRIGERANT CHARGE			kg	6.50	9.50	10.10	9.00	
POWER SOURCE			V/Ph/Hz	380-415 / 3 / 50				
REFRIGERANT TYPE			R407C					
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION					
			HORIZONTAL					
	AIR FLOW	SUPER HIGH		CFM	2250	3000	N/A	N/A
		HIGH		CFM	1950	2600	3750	4500
		MEDIUM		CFM	1600	2100	N/A	N/A
		LOW		CFM	1250	1700	N/A	N/A
	EXTERNAL STATIC PRESSURE (SH/H/M/L)		Pa	196 / 179 / 125 / 89	196 / 172 / 139 / 91	150		
	SOUND PRESSURE LEVEL (SH/H/M/L)		dBA	52 / 52 / 48 / 43	55 / 54 / 52 / 48	58	59	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	430 X 1370 X 710	430 X 1599 X 710	710 X 1694 X 775	710 X 1973 X 775	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	612 X 1535 X 974	612 X 1765 X 974	892 X 1894 X 1110	892 X 2214 X 1110	
	UNIT WEIGHT		kg	92	119	155	175	
	CONDENSATE DRAIN SIZE		mm	25.40				
	FAN	TYPE		CENTRIFUGAL				
		DRIVE		DIRECT		BELT DRIVEN		
	FAN MOTOR	TYPE		PERMANENT SPLIT CAPACITOR		INDUCTION		
		INDEX OF PROTECTION (IP)		IP54				
		INSULATION GRADE		CLASS B		CLASS F		
		RATED INPUT POWER	W	1182	1254	1420	1740	
		RATED RUNNING CURRENT	A	4.99	5.79	3.00	3.30	
		MOTOR OUTPUT	W	750	1000	1500	1500	
POLES			4	4	4	4		
COIL	TUBE	MATERIAL		COPPER				
		DIAMETER		9.52				
	FIN	MATERIAL		ALUMINIUM				
FACE AREA		m <sup>2</sup>	0.45	0.55	0.89	1.03		
AIR QUALITY	FILTER	TYPE		SARANET	SARANET	WASHABLE VILEDON		
		QUANTITY		pc	2	2	3	3
CASING		COLOUR	LIGHT GREY					
OUTDOOR UNIT	AIR FLOW		l/s / CFM	7000	7000	10000	10000	
	SOUND PRESSURE LEVEL		dBA	64	64	66	67	
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1041 X 981 X 981	1041 X 981 X 981	1041 X 1083 X 1083	1142 X 1083 X 1083	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1224 X 1175 X 1150	1224 X 1175 X 1150	1224 X 1277 X 1252	1326 X 1277 X 1252	
	UNIT WEIGHT		kg	170	184	197	268	
	PIPE CONNECTION	TYPE		BRAZED				
		SIZE	LIQUID	mm	12.70	15.88	15.88	15.88
			GAS	mm	25.40	28.58	34.92	34.92
	FAN	TYPE		PROPELLER				
		DRIVE		DIRECT				
	FAN MOTOR	TYPE		INDUCTION				
		INDEX OF PROTECTION (IP)		IP54				
		INSULATION GRADE		CLASS F				
		RATED INPUT POWER	W	600	600	880	880	
		RATED RUNNING CURRENT	A	1.00	1.00	1.73	1.73	
		MOTOR OUTPUT	W	350	350	560	560	
	COMPRESSOR	TYPE		SCROLL				
		INSULATION GRADE		N/A				
		OIL TYPE		POE				
		OIL AMOUNT	cm <sup>3</sup>	2510	3250	3250	4140	
RATED INPUT POWER (COOLING)		W	6298	9696	9850	12624		
RATED INPUT POWER (HEATING)		W	6523	8816	8800	11440		
RATED RUNNING CURRENT (COOLING)		A	12.44	17.57	17.67	22.47		
RATED RUNNING CURRENT (HEATING)		A	12.24	16.37	15.57	20.77		
LOCKED ROTOR AMP.	A	95.00	118.00	118.00	174.00			
COIL	TUBE	MATERIAL		COPPER				
		DIAMETER		9.52				
	FIN	MATERIAL		ALUMINIUM				
FACE AREA		m <sup>2</sup>	2.29	2.29	2.54	2.82		
		ROW	1	2	2	2		
CASING		COLOUR	LIGHT GREY					

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING		HEATING	
INDOOR: 27°C DB/ 19°C WB		INDOOR: 20°C DB	
OUTDOOR: 35°C DB/ 24°C WB		OUTDOOR: 7°C DB/ 6°C WB	

### Engineering Data – R407C HEATPUMP MODEL

MODEL	INDOOR UNIT		2FDYP150EXY1	2FDYP200EXY1	2FGYP250EXY1	2FGYP300EXY1			
	OUTDOOR UNIT		RCYP75EXY1 x 2	RCYP100EXY1 x 2	RCYP125EXY1 x 2	RCYP150EXY1 x 2			
NOMINAL COOLING CAPACITY	Btu/h		146000	182000	216000	290000			
	W		42790	53340	63310	84990			
NOMINAL HEATING CAPACITY	Btu/h		162000	218000	248000	300000			
	W		47480	63890	72680	87920			
NOMINAL TOTAL INPUT POWER (COOLING)	W		15536	23177	25340	31228			
NOMINAL TOTAL INPUT POWER (HEATING)	W		15986	21417	23240	28860			
NOMINAL RUNNING CURRENT (COOLING)	A		30.20	42.20	46.40	56.40			
NOMINAL RUNNING CURRENT (HEATING)	A		29.80	39.80	42.20	53.00			
EER	W/W		2.75	2.30	2.50	2.72			
COP	W/W		2.97	2.98	3.13	3.05			
REFRIGERANT CONTROL (EXPANSION DEVICE)			INDOOR TXV (COOLING) & OUTDOOR TXV (HEATING)						
REFRIGERANT CHARGE			kg	6.50 x 2	9.50 x 2	10.10 x 2	9.00 x 2		
POWER SOURCE			V/Ph/Hz	380-415 / 3 / 50					
REFRIGERANT TYPE			R407C						
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION		HORIZONTAL		VERTICAL		
	AIR FLOW		CFM	4500	6400	8000	9000		
	EXTERNAL STATIC PRESSURE		Pa	150	150	200	200		
	SOUND PRESSURE LEVEL		dBA	59	61	63	66		
	UNIT DIMENSION		HEIGHT X WIDTH X DEPTH	mm	710 X 1973 X 775	885 X 1794 X 850	1231 X 1766 X 1069	1231 X 1766 X 1069	
	PACKING DIMENSION		HEIGHT X WIDTH X DEPTH	mm	892 X 2214 X 1110	1154 X 2052 X 1188	1506 X 2034 X 1412	1506 X 2034 X 1412	
	UNIT WEIGHT		kg	175	220	343	343		
	CONDENSATE DRAIN SIZE		mm	25.40					
	FAN		TYPE	CENTRIFUGAL					
			DRIVE	BELT DRIVEN					
			TYPE	INDUCTION					
			INDEX OF PROTECTION (IP)	IP54					
			INSULATION GRADE	CLASS F					
			RATED INPUT POWER	W	1740	2585	3880	4220	
			RATED RUNNING CURRENT	A	3.30	5.02	7.59	8.02	
			MOTOR OUTPUT	W	1500	3000	4000	4000	
			POLES		4	4	4	4	
	COIL		TUBE	MATERIAL	COPPER				
				DIAMETER	mm	9.52			
			FIN	MATERIAL	ALUMINIUM				
FACE AREA				m <sup>2</sup>	1.03	1.20	1.20	1.62	
		ROW		3	4	4	5		
AIR QUALITY		TYPE	WASHABLE VILEDON						
		QUANTITY	pc	3	3	6	6		
CASING		COLOUR	LIGHT GREY						
OUTDOOR UNIT	AIR FLOW		l/s / CFM	7000	7000	10000	10000		
	SOUND PRESSURE LEVEL		dBA	64	64	66	67		
	UNIT DIMENSION		HEIGHT X WIDTH X DEPTH	mm	1041 X 981 X 981	1041 X 981 X 981	1041 X 1083 X 1083	1142 X 1083 X 1083	
	PACKING DIMENSION		HEIGHT X WIDTH X DEPTH	mm	1224 X 1175 X 1150	1224 X 1175 X 1150	1224 X 1277 X 1252	1326 X 1277 X 1252	
	UNIT WEIGHT		kg	170	184	197	268		
	PIPE CONNECTION		SIZE	TYPE	BRAZED				
				LIQUID	mm	12.70	15.88	15.88	15.88
				GAS	mm	25.40	28.58	34.92	34.92
	FAN		TYPE	PROPELLER					
			DRIVE	DIRECT					
			TYPE	INDUCTION					
			INDEX OF PROTECTION (IP)	IP54					
			INSULATION GRADE	CLASS F					
			RATED INPUT POWER	W	600	600	880	880	
			RATED RUNNING CURRENT	A	1.00	1.00	1.73	1.73	
			MOTOR OUTPUT	W	350	350	560	560	
	COMPRESSOR		TYPE	SCROLL					
			INSULATION GRADE	CLASS F					
			OIL TYPE	POE					
			OIL AMOUNT	cm <sup>3</sup>	2510	3250	3250	4140	
RATED INPUT POWER (COOLING)			W	6298	9696	9850	12624		
RATED INPUT POWER (HEATING)			W	6523	8816	8800	11440		
RATED RUNNING CURRENT (COOLING)			A	12.44	17.57	17.67	22.47		
		RATED RUNNING CURRENT (HEATING)	A	12.24	16.37	15.57	20.77		
		LOCKED ROTOR AMP.	A	95.00	118.00	118.00	174.00		
COIL		TUBE	MATERIAL	COPPER					
			DIAMETER	mm	9.52				
		FIN	MATERIAL	ALUMINIUM					
			FACE AREA	m <sup>2</sup>	2.29	2.3	2.5	2.82	
		ROW		1	2	2	2		
CASING		COLOUR	LIGHT GREY						

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB/ 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB/ 24°C WB	OUTDOOR: 7°C DB/ 6°C WB

### Engineering Data – R407C HEATPUMP MODEL

MODEL	INDOOR UNIT		3FGYP300EXY1	3FGYP350EXY1	4FGYP400EXY1						
	OUTDOOR UNIT		RCYP100EXY1 x 3	RCYP100EXY1	RCYP125EXY1 x 2	RCYP100EXY1 x 4					
NOMINAL COOLING CAPACITY	Btu/h		273000	307000	364000						
	W		80010	89980	106680						
NOMINAL HEATING CAPACITY	Btu/h		327000	357000	436000						
	W		95840	104630	127780						
NOMINAL TOTAL INPUT POWER (COOLING)	W		35108	37376	46410						
NOMINAL TOTAL INPUT POWER (HEATING)	W		32468	34396	42890						
NOMINAL RUNNING CURRENT (COOLING)	A		63.70	67.30	83.70						
NOMINAL RUNNING CURRENT (HEATING)	A		60.10	61.90	78.90						
EER	W/W		2.28	2.41	2.30						
COP	W/W		2.95	3.04	2.98						
REFRIGERANT CONTROL (EXPANSION DEVICE)			INDOOR TXV (COOLING) & OUTDOOR TXV (HEATING)								
REFRIGERANT CHARGE		kg	9.50 x 3	9.50	10.10 x 2	9.50 x 4					
POWER SOURCE		V/Ph/Hz	380-415 / 3 / 50								
REFRIGERANT TYPE			R407C								
INDOOR UNIT	CONTROL		AIR DISCHARGE OPERATION			VERTICAL					
	AIR FLOW		CFM	9000	10500	12000					
	EXTERNAL STATIC PRESSURE		Pa	200	200	200					
	SOUND PRESSURE LEVEL		dBA	66	66	66					
	UNIT DIMENSION		HEIGHT X WIDTH X DEPTH	mm	1231 X 1766 X 1069	1486 X 2022 X 1069	1486 X 2174 X 1336				
	PACKING DIMENSION		HEIGHT X WIDTH X DEPTH	mm	1506 X 2034 X 1412	1766 X 2279 X 1412	1766 X 2431 X 1684				
	UNIT WEIGHT		kg	343	440	513					
	CONDENSATE DRAIN SIZE		mm	25.40							
	FAN		TYPE	CENTRIFUGAL							
			DRIVE	BELT DRIVEN							
	FAN MOTOR		TYPE	INDUCTION							
			INDEX OF PROTECTION (IP)	IP54							
			INSULATION GRADE	CLASS F							
			RATED INPUT POWER	W	4220	5620	5226				
			RATED RUNNING CURRENT	A	8.02	9.97	9.43				
			MOTOR OUTPUT	W	4000	5500	5500				
			POLES		4	4					
	COIL		TUBE	MATERIAL	COPPER						
				DIAMETER	mm	9.52					
			FIN	MATERIAL	ALUMINIUM						
			FACE AREA	m <sup>2</sup>	1.62	2.38	2.38				
			ROW		5	4	4				
AIR QUALITY		FILTER	TYPE	WASHABLE VILEDON							
			QUANTITY	pc	6						
CASING			COLOUR	LIGHT GREY							
OUTDOOR UNIT	AIR FLOW		l/s / CFM	7000	7000	10000	7000				
	SOUND PRESSURE LEVEL		dBA	64	64	66	64				
	UNIT DIMENSION		HEIGHT X WIDTH X DEPTH	mm	1041 X 981 X 981	1041 X 981 X 981	1041 X 1083 X 1083	1041 X 981 X 981			
	PACKING DIMENSION		HEIGHT X WIDTH X DEPTH	mm	1224 X 1175 X 1150	1224 X 1175 X 1150	1224 X 1277 X 1252	1224 X 1175 X 1150			
	UNIT WEIGHT		kg	184	184	197	268				
	PIPE CONNECTION		TYPE	LIQUID			mm	15.88	15.88	15.88	15.88
			SIZE	GAS			mm	28.58	28.58	34.92	28.58
	FAN		TYPE	PROPELLER							
			DRIVE	DIRECT							
	FAN MOTOR		TYPE	INDUCTION							
			INDEX OF PROTECTION (IP)	IP54							
			INSULATION GRADE	CLASS F							
			RATED INPUT POWER	W	600	600	880	600			
			RATED RUNNING CURRENT	A	1.00	1.00	1.73	1.00			
			MOTOR OUTPUT	W	350	350	560	350			
	COMPRESSOR		TYPE	SCROLL							
			INSULATION GRADE	CLASS F							
			OIL TYPE	POE							
			OIL AMOUNT	cm <sup>3</sup>	3250	3250	3250	3250			
			RATED INPUT POWER (COOLING)	W	9696	9696	9850	9696			
		RATED INPUT POWER (HEATING)	W	8816	8816	8800	8816				
		RATED RUNNING CURRENT (COOLING)	A	17.57	17.57	17.67	17.57				
		RATED RUNNING CURRENT (HEATING)	A	16.37	16.37	15.57	16.37				
		LOCKED ROTOR AMP.	A	118.00	118.00	125.00	125.00				
COIL		TUBE	MATERIAL	COPPER							
			DIAMETER	mm	9.52						
		FIN	MATERIAL	ALUMINIUM							
			FACE AREA	m <sup>2</sup>	2.26	2.26	2.54	2.26			
			ROW		2	2	2	2			
CASING			COLOUR	LIGHT GREY							

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING		HEATING	
INDOOR: 27°C DB/ 19°C WB		INDOOR: 20°C DB	
OUTDOOR: 35°C DB/ 24°C WB		OUTDOOR: 7°C DB/ 6°C WB	

## Engineering Data – R407C HEATPUMP MODEL

MODEL	INDOOR UNIT		3FGYP450EXY1	4FGYP500EXY1	4FGYP600EXY1		
	OUTDOOR UNIT		RCYP150EXY1 x 3	RCYP125EXY1 x 4	RCYP150EXY1 x 4		
NOMINAL COOLING CAPACITY	Btu/h		432000	435000	580000		
	W		126610	127490	169990		
NOMINAL HEATING CAPACITY	Btu/h		450000	496000	600000		
	W		131890	145370	175850		
NOMINAL TOTAL INPUT POWER (COOLING)	W		46820	51264	63080		
NOMINAL TOTAL INPUT POWER (HEATING)	W		43268	47064	58344		
NOMINAL RUNNING CURRENT (COOLING)	A		83.50	93.70	113.70		
NOMINAL RUNNING CURRENT (HEATING)	A		78.40	85.30	106.90		
EER	W/W		2.70	2.49	2.69		
COP	W/W		3.05	3.09	3.01		
REFRIGERANT CONTROL (EXPANSION DEVICE)			INDOOR TXV (COOLING) & OUTDOOR TXV (HEATING)				
REFRIGERANT CHARGE	kg		9.00 x 3	10.10 x 4	9.00 x 4		
POWER SOURCE	V/Ph/Hz		380-415 / 3 / 50				
REFRIGERANT TYPE			R407C				
INDOOR UNIT	CONTROL	AIR DISCHARGE OPERATION	VERTICAL WIRED HANDSET BRC51C61				
	AIR FLOW	CFM	13500	15000	18000		
	EXTERNAL STATIC PRESSURE	Pa	250	250	300		
	SOUND PRESSURE LEVEL	dBA	68	68	70		
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1486 X 2174 X 1336	1486 X 2174 X 1336	1918 X 2174 X 1775	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1766 X 2431 X 1684	1766 X 2431 X 1684	1977 X 2431 X 2174	
	UNIT WEIGHT	kg	606	606	991		
	CONDENSATE DRAIN SIZE	mm		25.40			
	FAN	TYPE		CENTRIFUGAL			
		DRIVE		BELT DRIVEN			
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		IP54			
		INSULATION GRADE		CLASS F			
		RATED INPUT POWER	W	6308	8344	9064	
		RATED RUNNING CURRENT	A	10.90	16.10	16.86	
		MOTOR OUTPUT	W	7500	11000	11000	
	POLES		4	4	4		
	COIL	TUBE	MATERIAL	COPPER			
			DIAMETER	mm	9.52		
		FIN	MATERIAL	ALUMINIUM			
FACE AREA			m <sup>2</sup>	2.58	2.55	3.37	
ROW		6	6	9			
AIR QUALITY	FILTER	TYPE	WASHABLE VILEDON				
QUANTITY	pc		6				
CASING	COLOUR		LIGHT GREY				
OUTDOOR UNIT	AIR FLOW	l/s / CFM	10000	10000	10000		
	SOUND PRESSURE LEVEL	dBA	67	66	67		
	UNIT DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1142 X 1083 X 1083	1041 X 1083 X 1083	1142 X 1083 X 1083	
	PACKING DIMENSION	HEIGHT X WIDTH X DEPTH	mm	1326 X 1277 X 1252	1224 X 1277 X 1252	1326 X 1277 X 1252	
	UNIT WEIGHT	kg	184	197	268		
	PIPE CONNECTION	SIZE	TYPE	BRAZED			
			LIQUID	mm	15.88	15.88	15.88
			GAS	mm	34.92	34.92	34.92
	FAN	TYPE		PROPELLER			
	DRIVE		DIRECT				
	FAN MOTOR	TYPE		INDUCTION			
		INDEX OF PROTECTION (IP)		IP54			
		INSULATION GRADE		CLASS F			
		RATED INPUT POWER	W	880	880	880	
		RATED RUNNING CURRENT	A	1.73	1.73	1.73	
		MOTOR OUTPUT	W	560	560	560	
	COMPRESSOR	TYPE		SCROLL			
		INSULATION GRADE		CLASS F			
		OIL TYPE		POE			
		OIL AMOUNT	cm <sup>3</sup>	4140	3250	4140	
RATED INPUT POWER (COOLING)		W	12624	9850	12624		
RATED INPUT POWER (HEATING)		W	11440	8800	11440		
RATED RUNNING CURRENT (COOLING)		A	22.47	17.67	22.47		
RATED RUNNING CURRENT (HEATING)		A	20.77	15.57	20.77		
LOCKED ROTOR AMP.	A	198.00	118.00	198.00			
COIL	TUBE	MATERIAL	COPPER				
		DIAMETER	mm	9.52			
	FIN	MATERIAL	ALUMINIUM				
		FACE AREA	m <sup>2</sup>	2.82	2.26	2.82	
ROW		2	2	2			
CASING	COLOUR		LIGHT GREY				

ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

COOLING	HEATING
INDOOR: 27°C DB/ 19°C WB	INDOOR: 20°C DB
OUTDOOR: 35°C DB/ 24°C WB	OUTDOOR: 7°C DB/ 6°C WB

**Safety Device - Cooling Only (R407C)****Cooling Only Models**

MODEL	INDOOR		FDMP75DXV1	FDMP100DXV1	FDP125DXY1
	OUTDOOR		RCP75DXY1	RCP100DXY1	RCP125DXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	3240536 / 470	
		CLOSE	Pa / psi	2647587 / 384	
	LOW PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	124105.6 / 18	
		CLOSE	Pa / psi	193053.2 / 28	
	PHASE SEQUENCER			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	

MODEL	INDOOR		FDP150DXY1	2FDP150DXY1	2FDP200DXY1
	OUTDOOR		RCP150DXY1	RCP75DXY1 x 2	RCP100DXY1 x 2
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	3240536 / 470	
		CLOSE	Pa / psi	2647587 / 384	
	LOW PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	124105.6 / 18	
		CLOSE	Pa / psi	193053.2 / 28	
	PHASE SEQUENCER			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	

MODEL	INDOOR		2FGP250DXY1	2FGP300DXY1	4FGP400DXY1
	OUTDOOR		RCP125DXY1 x 2	RCP150DXY1 x 2	RCP100DXY1 x 4
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	3240536 / 470	
		CLOSE	Pa / psi	2647587 / 384	
	LOW PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	124105.6 / 18	
		CLOSE	Pa / psi	193053.2 / 28	
	PHASE SEQUENCER			YES	
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257	

MODEL	INDOOR		4FGP500DXY1	
	OUTDOOR		RCP125DXY1 x 4	
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	3240536 / 470
		CLOSE	Pa / psi	2647587 / 384
	LOW PRESSURE SWITCH	TYPE		AUTO RESET
		OPEN	Pa / psi	124105.6 / 18
		CLOSE	Pa / psi	193053.2 / 28
	PHASE SEQUENCER			YES
	DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257

ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

## Safety Device - Heatpump (R407C)

## Heatpump Models

MODEL	INDOOR		FDYMP75DXV1	FDYMP100DXV1	FDYP125EXY1
	OUTDOOR		RCYP75EXY1	RCYP100EXY1	RCYP125EXY1
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	3240536 / 470	
		CLOSE	Pa / psi	2647587 / 384	
	LOW PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	124105.6 / 18	
		CLOSE	Pa / psi	193053.2 / 28	
	PHASE SEQUENCER			YES	
DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257		

MODEL	INDOOR		FDYP150EXY1	2FDYP150EXY1	2FDYP200EXY1
	OUTDOOR		RCYP150EXY1	RCYP75EXY1 x 2	RCYP100EXY1 x 2
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	3240536 / 470	
		CLOSE	Pa / psi	2647587 / 384	
	LOW PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	124105.6 / 18	
		CLOSE	Pa / psi	193053.2 / 28	
	PHASE SEQUENCER			YES	
DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257		

MODEL	INDOOR		2FGYP250EXY1	2FGYP300EXY1	3FGYP300EXY1
	OUTDOOR		RCYP125EXY1 x 2	RCYP150EXY1 x 2	RCYP100EXY1 x 3
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	3240536 / 470	
		CLOSE	Pa / psi	2647587 / 384	
	LOW PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	124105.6 / 18	
		CLOSE	Pa / psi	193053.2 / 28	
	PHASE SEQUENCER			YES	
DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257		

MODEL	INDOOR		3FGYP350EXY1		4FGYP400EXY1
	OUTDOOR		RCYP100EXY1	RCYP125EXY1 x 2	RCYP100EXY1 x 4
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	3240536 / 470	
		CLOSE	Pa / psi	2647587 / 384	
	LOW PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	124105.6 / 18	
		CLOSE	Pa / psi	193053.2 / 28	
	PHASE SEQUENCER			YES	
DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257		

MODEL	INDOOR		3FGYP450EXY1	4FGYP500EXY1	4FGYP600EXY1
	OUTDOOR		RCYP150EXY1 x 3	RCYP125EXY1 x 4	RCYP150EXY1 x 4
SAFETY DEVICE	HIGH PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	3240536 / 470	
		CLOSE	Pa / psi	2647587 / 384	
	LOW PRESSURE SWITCH	TYPE		AUTO RESET	
		OPEN	Pa / psi	124105.6 / 18	
		CLOSE	Pa / psi	193053.2 / 28	
	PHASE SEQUENCER			YES	
DISCHARGE THERMOSTAT SETTING		°C / °F	125 / 257		

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# Performance Data

## Calculation Steps

Interpolation method can be used to get the total cooling capacity, **TC** and sensible cooling capacity, **SC** and power input, **PI** at those temperatures which are not stated out in the table. Extrapolation method is not allowed to be used.

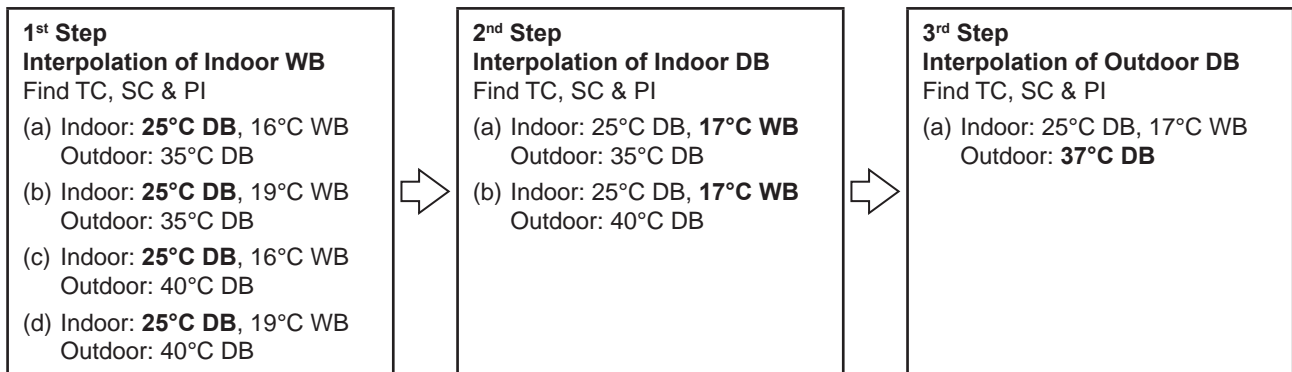
**Example:**

**Model:** FDMP75DXV1 – RCP75DXY1  
**Indoor Condition:** 25°C DB, 17°C WB  
**Outdoor Condition:** 37°C DB  
**Fan Speed:** High

**Solution:**

Based on the Performance Table,

1. Refer to the Indoor DB column,
  - **25°C** is located between 24°C & 27°C for 16°C WB.
  - **25°C** is located between 24°C & 27°C for 19°C WB.
  - Thus, Interpolation needs to be applied.
2. Refer to the Indoor WB column,
  - **17°C** is located between 16°C & 19°C for 25°C DB.
  - Thus, Interpolation needs to be applied.
3. Refer to the Outdoor DB column,
  - **37°C** is located between 35°C & 40°C.
  - Thus, Interpolation needs to be applied.



**Details of Calculation:**

**1st Step:**

To obtain the TC, SC & PI for

**(a) Indoor Condition:** 25°C DB, 16°C WB  
**Outdoor Condition:** 35°C DB

EWB	EDB	Outdoor temperature			
		35°C			
		TC	SC	PI	
		⋮	⋮	⋮	
16	24	20.00	18.46	7.94	
	25	----- x <sub>1</sub>	y <sub>1</sub>	z <sub>1</sub>	
	27	20.58	20.58	7.98	

**By Interpolation Method**

$$\Rightarrow \frac{25^\circ\text{C} - 24^\circ\text{C}}{27^\circ\text{C} - 24^\circ\text{C}} = \frac{x_1 - 20.00\text{kW}}{20.58\text{kW} - 20.00\text{kW}}$$

$$\Rightarrow x_1 = 20.19\text{kW}$$

**Similarly,**

$$y_1 = 19.17\text{kW}$$

$$z_1 = 7.95\text{kW}$$

(b) Indoor Condition: 25°C DB, 16°C WB  
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
		35°C				
		TC	SC	PI		
19	24		21.89	14.53	8.07	
	25	-----	x <sub>2</sub>	y <sub>2</sub>	z <sub>2</sub>	
	27		21.98	16.92	8.08	

**By Interpolation Method**

$$\Rightarrow \frac{25^\circ\text{C} - 24^\circ\text{C}}{27^\circ\text{C} - 24^\circ\text{C}} = \frac{x_2 - 21.89\text{kW}}{3.52\text{kW} - 21.98\text{kW}}$$

$$\Rightarrow x_2 = 21.92\text{kW}$$

**Similarly,**

$$y_2 = 15.33\text{kW}$$

$$z_2 = 8.07\text{kW}$$

Repeat the same process for (c) & (d) in 1<sup>st</sup> Step

(c) x<sub>3</sub> = 18.59 kW; y<sub>3</sub> = 17.83 kW; z<sub>3</sub> = 8.63 kW

(d) x<sub>4</sub> = 20.12 W; y<sub>4</sub> = 14.30 kW; z<sub>4</sub> = 8.75 kW

**2<sup>nd</sup> Step:**

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB  
Outdoor Condition: 35°C DB

EWB	EDB	Outdoor temperature				
		35°C				
		TC	SC	PI		
16	25		20.19	19.17	7.95	
17		-----	x <sub>5</sub>	y <sub>5</sub>	z <sub>5</sub>	
19			21.92	15.33	8.07	

**By Interpolation Method**

$$\Rightarrow \frac{17^\circ\text{C} - 16^\circ\text{C}}{19^\circ\text{C} - 16^\circ\text{C}} = \frac{x_5 - 20.19\text{kW}}{21.92\text{kW} - 20.19\text{kW}}$$

$$\Rightarrow x_5 = 20.77\text{kW}$$

**Similarly,**

$$y_5 = 18.57\text{kW}$$

$$z_5 = 7.99\text{kW}$$

Repeat the same process for (b) in 2<sup>nd</sup> Step

(c) x<sub>6</sub> = 19.01 kW; y<sub>6</sub> = 16.65 kW; z<sub>6</sub> = 8.67 kW

**3<sup>rd</sup> Step:**

To obtain the TC, SC & PI for

(a) Indoor Condition: 25°C DB, 17°C WB  
Outdoor Condition: 37°C DB

EWB	EDB	Outdoor temperature									
		35°C			37°C			40°C			
		TC	SC	PI	TC	SC	PI	TC	SC	PI	
25	17	-----	20.77	18.57	7.99	x	y	z	19.01	16.65	8.67

**By Interpolation Method**

$$\Rightarrow \frac{37^\circ\text{C} - 35^\circ\text{C}}{40^\circ\text{C} - 35^\circ\text{C}} = \frac{x - 20.77\text{kW}}{19.01\text{kW} - 20.77\text{kW}}$$

$$\Rightarrow x = 20.07\text{kW}$$

**Similarly,**

$$y = 17.80\text{kW}$$

$$z = 8.26\text{kW}$$

## Performance Tables

## R407C Cooling Only

Model: FDMP75DXV1 - RCP75DXY1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1250	16°C	21°C	20.72	15.04	6.14	19.98	14.65	6.64	19.24	14.26	7.19	18.47	13.85	7.80	16.96	12.89	8.46	15.66	12.12	9.32
		24°C	20.74	18.01	6.14	20.01	17.60	6.64	19.27	17.19	7.19	18.50	16.77	7.80	16.99	15.66	8.46	15.72	14.77	9.33
		27°C	20.91	20.42	6.15	20.21	19.96	6.65	19.50	19.49	7.21	18.77	18.77	7.82	17.32	17.32	8.49	16.11	16.11	9.36
		30°C	21.55	21.55	6.18	20.93	20.93	6.69	20.30	20.30	7.25	19.65	19.65	7.88	18.21	18.21	8.56	17.04	17.04	9.45
	19°C	24°C	22.85	14.05	6.24	22.05	13.69	6.75	21.24	13.32	7.31	20.40	12.95	7.93	18.75	12.06	8.61	17.33	11.36	9.48
		27°C	22.87	16.07	6.24	22.06	15.71	6.75	21.25	15.35	7.32	20.42	14.98	7.93	18.77	14.01	8.61	17.35	13.27	9.49
		30°C	22.90	19.83	6.24	22.11	19.41	6.75	21.33	18.98	7.32	20.52	18.52	7.94	18.89	17.32	8.62	17.53	16.39	9.50
		33°C	23.17	23.17	6.25	22.42	22.42	6.77	21.69	21.69	7.34	20.95	20.95	7.97	19.39	19.39	8.66	18.12	18.12	9.56
	22°C	27°C	25.14	13.75	6.35	24.27	13.42	6.88	23.39	13.08	7.46	22.47	12.72	8.09	20.66	11.85	8.77	19.13	11.17	9.67
		30°C	25.15	16.75	6.35	24.28	16.40	6.88	23.39	16.02	7.46	22.48	15.64	8.09	20.67	14.64	8.77	19.13	13.89	9.67
		33°C	25.16	19.57	6.35	24.29	19.19	6.88	23.41	18.81	7.46	22.49	18.42	8.09	20.70	17.30	8.78	19.18	16.43	9.67
		36°C	25.24	22.19	6.35	24.41	21.74	6.89	23.56	21.29	7.47	22.71	20.82	8.11	20.94	19.52	8.80	19.47	18.52	9.70
1600	16°C	21°C	21.56	15.70	6.19	20.78	15.29	6.70	20.00	14.89	7.25	19.18	14.47	7.87	17.60	13.47	8.53	16.23	12.68	9.40
		24°C	21.63	19.05	6.20	20.85	18.61	6.70	20.07	18.16	7.26	19.26	17.71	7.87	17.69	16.52	8.54	16.35	15.59	9.41
		27°C	21.89	21.64	6.21	21.15	21.14	6.72	20.42	20.42	7.28	19.69	19.69	7.90	18.18	18.18	8.58	16.93	16.93	9.47
		30°C	22.80	22.80	6.25	22.14	22.14	6.78	21.46	21.46	7.35	20.77	20.77	7.98	19.24	19.24	8.67	17.99	17.99	9.57
	19°C	24°C	23.75	14.85	6.30	22.91	14.48	6.81	22.05	14.10	7.38	21.16	13.71	8.01	19.43	12.78	8.68	17.95	12.04	9.57
		27°C	23.80	17.10	6.30	22.95	16.73	6.82	22.09	16.35	7.39	21.20	15.96	8.01	19.48	14.92	8.69	18.01	14.13	9.57
		30°C	23.91	21.10	6.30	23.08	20.65	6.83	22.25	20.18	7.40	21.40	19.69	8.02	19.70	18.41	8.71	18.28	17.39	9.60
		33°C	24.31	24.31	6.33	23.57	23.57	6.85	22.82	22.82	7.44	22.06	22.06	8.07	20.43	20.43	8.77	19.10	19.10	9.68
	22°C	27°C	26.10	14.54	6.41	25.18	14.20	6.95	24.24	13.84	7.53	23.28	13.47	8.16	21.39	12.56	8.85	19.79	11.85	9.75
		30°C	26.13	17.84	6.41	25.21	17.47	6.95	24.27	17.08	7.53	23.31	16.69	8.17	21.42	15.63	8.86	19.82	14.83	9.76
		33°C	26.18	20.91	6.42	25.27	20.51	6.95	24.34	20.09	7.54	23.38	19.66	8.18	21.51	18.44	8.87	19.94	17.51	9.77
		36°C	26.34	23.64	6.43	25.49	23.19	6.97	24.60	22.71	7.56	23.70	22.18	8.20	21.87	20.75	8.90	20.39	19.58	9.82
1950	16°C	21°C	22.36	16.38	6.24	21.54	15.97	6.75	20.71	15.55	7.31	19.86	15.11	7.93	18.21	14.07	8.60	16.79	13.25	9.48
		24°C	22.48	19.91	6.25	21.66	19.44	6.76	20.85	18.96	7.32	20.00	18.46	7.94	18.37	17.23	8.61	16.97	16.24	9.49
		27°C	22.84	22.81	6.27	22.09	22.09	6.79	21.35	21.35	7.35	20.58	20.58	7.98	19.02	19.02	8.67	17.72	17.72	9.56
		30°C	23.98	23.98	6.32	23.28	23.28	6.85	22.57	22.57	7.43	21.82	21.82	8.07	20.21	20.21	8.77	18.87	18.87	9.68
	19°C	24°C	24.61	15.71	6.35	23.72	15.33	6.87	22.82	14.93	7.44	21.89	14.53	8.07	20.09	13.54	8.75	18.55	12.78	9.64
		27°C	24.68	18.18	6.35	23.80	17.77	6.88	22.90	17.35	7.45	21.98	16.93	8.08	20.18	15.83	8.76	18.65	14.97	9.66
		30°C	24.89	22.37	6.36	24.01	21.89	6.89	23.15	21.39	7.47	22.26	20.85	8.10	20.50	19.47	8.79	19.03	18.36	9.69
		33°C	25.43	25.43	6.39	24.68	24.68	6.93	23.92	23.92	7.52	23.14	23.14	8.17	21.43	21.43	8.87	20.04	20.04	9.79
	22°C	27°C	27.01	15.37	6.47	26.05	15.04	7.01	25.07	14.66	7.59	24.06	14.27	8.23	22.10	13.32	8.93	20.42	12.58	9.83
		30°C	27.06	18.95	6.47	26.10	18.59	7.01	25.12	18.19	7.60	24.11	17.77	8.24	22.15	16.64	8.93	20.49	15.78	9.84
		33°C	27.16	22.21	6.48	26.22	21.82	7.02	25.25	21.36	7.61	24.26	20.89	8.25	22.32	19.58	8.95	20.68	18.58	9.86
		36°C	27.40	25.08	6.49	26.54	24.62	7.04	25.62	24.08	7.63	24.70	23.49	8.29	22.82	21.91	8.99	21.29	20.62	9.92
2250	16°C	21°C	22.36	16.53	6.31	21.57	16.13	6.79	20.78	15.73	7.34	19.97	15.32	7.98	18.35	14.27	8.70	16.94	13.45	9.66
		24°C	22.43	20.21	6.31	21.63	19.77	6.79	20.86	19.34	7.35	20.05	18.88	7.98	18.43	17.66	8.70	17.08	16.66	9.67
		27°C	22.81	22.81	6.33	22.10	22.10	6.82	21.40	21.40	7.38	20.68	20.68	8.02	19.16	19.16	8.75	17.90	17.90	9.74
		30°C	24.03	24.03	6.39	23.36	23.36	6.88	22.69	22.69	7.46	21.98	21.98	8.11	20.39	20.39	8.84	19.09	19.09	9.83
	19°C	24°C	24.61	15.85	6.41	23.75	15.47	6.90	22.90	15.10	7.47	22.02	14.71	8.11	20.25	13.74	8.83	18.74	12.99	9.81
		27°C	24.67	18.38	6.42	23.81	17.99	6.91	22.97	17.62	7.47	22.08	17.23	8.11	20.31	16.15	8.84	18.80	15.34	9.81
		30°C	24.79	22.83	6.42	23.97	22.35	6.92	23.16	21.87	7.48	22.33	21.35	8.13	20.61	19.95	8.86	19.20	18.81	9.84
		33°C	25.46	25.46	6.46	24.72	24.72	6.96	24.04	24.04	7.54	23.31	23.31	8.20	21.65	21.65	8.94	20.30	20.30	9.94
	22°C	27°C	27.04	15.54	6.53	26.11	15.18	7.04	25.20	14.84	7.61	24.24	14.47	8.26	22.32	13.52	8.99	20.69	12.79	9.97
		30°C	27.10	19.22	6.54	26.17	18.83	7.04	25.25	18.44	7.61	24.29	18.04	8.26	22.37	16.92	8.99	20.74	16.09	9.97
		33°C	27.16	22.65	6.54	26.23	22.25	7.05	25.30	21.85	7.62	24.37	21.42	8.27	22.46	20.13	9.00	20.87	19.12	9.98
		36°C	27.42	25.67	6.55	26.55	25.16	7.06	25.69	24.63	7.64	24.86	24.03	8.31	23.02	22.46	9.04	21.54	21.20	10.04

**Remark:**

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

PI: Power Input (kW)

**Notes:**

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

## Model: FDMP100DXV1 - RCP100DXY1

## Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1700	16°C	21°C	27.63	19.28	8.39	26.65	18.78	9.07	25.66	18.27	9.82	24.63	17.75	10.65	22.62	16.52	11.56	20.88	15.54	12.74
		24°C	27.66	23.09	8.39	26.68	22.56	9.07	25.69	22.03	9.83	24.67	21.49	10.66	22.66	20.07	11.56	20.96	18.93	12.75
		27°C	27.88	26.18	8.40	26.95	25.58	9.09	26.01	24.98	9.85	25.03	24.34	10.68	23.09	22.65	11.59	21.49	21.27	12.79
		30°C	28.74	28.74	8.44	27.91	27.91	9.14	27.07	27.07	9.91	26.20	26.20	10.76	24.28	24.28	11.69	22.72	22.72	12.92
	19°C	24°C	30.47	18.00	8.52	29.40	17.54	9.22	28.33	17.08	9.99	27.20	16.60	10.84	25.00	15.46	11.76	23.11	14.56	12.96
		27°C	30.49	20.59	8.52	29.42	20.13	9.22	28.34	19.67	10.00	27.23	19.19	10.84	25.03	17.95	11.76	23.14	17.01	12.96
		30°C	30.54	25.41	8.52	29.49	24.87	9.23	28.44	24.32	10.00	27.37	23.74	10.85	25.20	22.20	11.78	23.38	21.01	12.98
		33°C	30.90	30.90	8.54	29.90	29.90	9.25	28.93	28.93	10.03	27.94	27.94	10.89	25.85	25.85	11.83	24.17	24.17	13.06
	22°C	27°C	33.52	17.62	8.68	32.36	17.19	9.40	31.19	16.76	10.19	29.97	16.30	11.05	27.56	15.19	11.99	25.51	14.32	13.21
		30°C	33.54	21.47	8.68	32.38	21.01	9.40	31.19	20.54	10.19	29.97	20.05	11.05	27.57	18.77	11.99	25.52	17.80	13.21
		33°C	33.55	25.08	8.68	32.39	24.60	9.40	31.21	24.11	10.19	29.99	23.61	11.05	27.60	22.17	11.99	25.58	21.06	13.22
		36°C	33.66	28.44	8.68	32.55	27.87	9.41	31.42	27.29	10.21	30.28	26.68	11.08	27.92	25.02	12.02	25.96	23.73	13.25
2100	16°C	21°C	28.75	20.12	8.46	27.71	19.60	9.15	26.66	19.08	9.91	25.57	18.54	10.75	23.47	17.26	11.66	21.65	16.25	12.85
		24°C	28.84	24.42	8.47	27.80	23.84	9.16	26.76	23.27	9.92	25.68	22.69	10.76	23.59	21.17	11.67	21.81	19.98	12.86
		27°C	29.18	27.73	8.49	28.20	27.09	9.18	27.23	26.39	9.95	26.25	25.60	10.80	24.24	23.78	11.72	22.58	22.25	12.94
		30°C	30.40	30.40	8.55	29.52	29.52	9.26	28.62	28.62	10.04	27.69	27.69	10.90	25.66	25.66	11.84	23.98	23.98	13.08
	19°C	24°C	31.67	19.03	8.60	30.55	18.55	9.31	29.40	18.07	10.09	28.22	17.57	10.94	25.91	16.37	11.86	23.94	15.43	13.07
		27°C	31.73	21.92	8.60	30.60	21.43	9.31	29.45	20.95	10.09	28.27	20.45	10.94	25.98	19.12	11.87	24.01	18.10	13.08
		30°C	31.88	27.04	8.61	30.77	26.46	9.33	29.67	25.86	10.11	28.54	25.23	10.96	26.27	23.59	11.90	24.38	22.29	13.11
		33°C	32.41	32.41	8.64	31.43	31.43	9.37	30.42	30.42	10.16	29.41	29.41	11.03	27.25	27.25	11.98	25.47	25.47	13.23
	22°C	27°C	34.80	18.63	8.76	33.58	18.20	9.49	32.33	17.73	10.29	31.04	17.26	11.16	28.53	16.09	12.10	26.39	15.19	13.32
		30°C	34.84	22.86	8.76	33.62	22.39	9.49	32.36	21.89	10.29	31.08	21.38	11.16	28.56	20.02	12.10	26.42	19.00	13.33
		33°C	34.91	26.79	8.77	33.69	26.28	9.50	32.46	25.74	10.30	31.18	25.20	11.17	28.68	23.63	12.12	26.59	22.44	13.35
		36°C	35.12	30.29	8.78	33.99	29.71	9.52	32.80	29.09	10.32	31.61	28.42	11.20	29.16	26.59	12.16	27.19	25.09	13.41
2600	16°C	21°C	29.82	20.99	8.53	28.73	20.46	9.23	27.62	19.92	9.99	26.48	19.37	10.83	24.28	18.04	11.75	22.39	16.97	12.95
		24°C	29.98	25.51	8.54	28.88	24.91	9.24	27.80	24.30	10.01	26.68	23.66	10.85	24.50	22.08	11.77	22.63	20.82	12.97
		27°C	30.46	29.24	8.57	29.46	28.48	9.27	28.47	27.68	10.05	27.45	26.83	10.90	25.36	24.85	11.84	23.63	23.20	13.07
		30°C	31.98	31.98	8.64	31.05	31.05	9.36	30.09	30.09	10.15	29.10	29.10	11.03	26.95	26.95	11.98	25.17	25.17	13.22
	19°C	24°C	32.82	20.14	8.67	31.63	19.64	9.39	30.43	19.14	10.17	29.19	18.62	11.03	26.79	17.36	11.96	24.73	16.37	13.18
		27°C	32.92	23.30	8.68	31.73	22.77	9.40	30.54	22.23	10.18	29.31	21.69	11.04	26.91	20.28	11.97	24.87	19.19	13.19
		30°C	33.19	28.67	8.70	32.01	28.05	9.42	30.87	27.41	10.20	29.68	26.72	11.07	27.33	24.95	12.01	25.37	23.52	13.24
		33°C	33.91	33.91	8.74	32.92	32.92	9.47	31.90	31.90	10.28	30.85	30.85	11.16	28.58	28.58	12.12	26.73	26.73	13.38
	22°C	27°C	36.01	19.70	8.84	34.73	19.27	9.57	33.43	18.78	10.38	32.08	18.29	11.25	29.47	17.07	12.20	27.24	16.12	13.43
		30°C	36.09	24.29	8.84	34.80	23.83	9.58	33.49	23.31	10.38	32.15	22.78	11.26	29.54	21.33	12.21	27.32	20.22	13.44
		33°C	36.21	28.46	8.85	34.96	27.97	9.59	33.68	27.38	10.40	32.35	26.77	11.28	29.76	25.09	12.23	27.57	23.82	13.47
		36°C	36.54	32.14	8.87	35.39	31.55	9.62	34.17	30.86	10.43	32.94	30.10	11.32	30.43	28.07	12.29	28.39	26.43	13.56
3000	16°C	21°C	29.81	21.18	8.62	28.76	20.67	9.27	27.72	20.16	10.03	26.62	19.63	10.90	24.46	18.29	11.88	22.59	17.23	13.20
		24°C	29.91	25.89	8.62	28.85	25.34	9.28	27.81	24.79	10.04	26.74	24.20	10.91	24.58	22.63	11.89	22.77	21.35	13.22
		27°C	30.41	29.69	8.65	29.48	28.95	9.31	28.53	28.19	10.08	27.58	27.35	10.96	25.55	25.55	11.96	23.87	23.87	13.31
		30°C	32.05	32.05	8.72	31.15	31.15	9.41	30.25	30.25	10.19	29.31	29.31	11.08	27.19	27.19	12.08	25.45	25.45	13.44
	19°C	24°C	32.81	20.31	8.76	31.67	19.82	9.43	30.54	19.35	10.20	29.36	18.85	11.08	27.01	17.61	12.07	24.99	16.65	13.40
		27°C	32.90	23.55	8.77	31.76	23.06	9.44	30.62	22.58	10.21	29.44	22.07	11.09	27.09	20.69	12.07	25.06	19.65	13.41
		30°C	33.06	29.26	8.77	31.96	28.64	9.45	30.88	28.03	10.22	29.77	27.36	11.11	27.48	25.57	12.10	25.61	24.10	13.45
		33°C	33.95	33.95	8.82	32.97	32.97	9.51	32.05	32.05	10.30	31.09	31.09	11.20	28.87	28.87	12.21	27.07	27.07	13.58
	22°C	27°C	36.06	19.92	8.93	34.82	19.46	9.62	33.60	19.01	10.40	32.33	18.54	11.29	29.76	17.32	12.28	27.59	16.39	13.62
		30°C	36.14	24.63	8.93	34.90	24.13	9.62	33.67	23.63	10.40	32.39	23.12	11.29	29.83	21.69	12.29	27.65	20.62	13.63
		33°C	36.22	29.02	8.94	34.98	28.51	9.63	33.74	28.00	10.41	32.49	27.45	11.30	29.95	25.80	12.30	27.83	24.51	13.64
		36°C	36.56	32.89	8.95	35.40	32.24	9.65	34.26	31.56	10.45	33.15	30.79	11.35	30.70	28.78	12.36	28.73	27.16	13.72

## Remark:

AFR: Air flow rate (CFM)  
EWB: Entering Wet Bulb Temp. (°C)  
EDB: Entering Dry Bulb Temp. (°C)  
TC: Total Cooling Capacity (kW)  
SC: Sensible Cooling Capacity (kW)  
PI: Power Input (kW)

## Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

**Model: FDP125DXY1 - RCP125DXY1**

**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3375	16°C	21°C	31.27	22.35	9.49	30.28	21.85	10.14	29.22	21.33	10.90	28.09	20.78	11.76	25.28	18.97	12.73	23.48	17.94	14.01
		24°C	31.39	26.62	9.50	30.40	26.06	10.15	29.35	25.48	10.91	28.23	24.86	11.78	25.41	22.75	12.74	23.60	21.62	14.03
		27°C	31.50	30.64	9.51	30.54	30.07	10.17	29.52	29.45	10.93	28.47	28.47	11.80	25.77	25.77	12.78	24.19	24.19	14.10
		30°C	32.75	32.75	9.61	31.93	31.93	10.28	31.04	31.04	11.06	30.09	30.09	11.95	27.33	27.33	12.95	25.70	25.70	14.28
	19°C	24°C	34.35	21.11	9.73	33.28	20.65	10.39	32.14	20.17	11.16	30.93	19.65	12.03	27.86	17.96	13.00	25.90	17.05	14.30
		27°C	34.44	24.66	9.74	33.37	24.16	10.40	32.23	23.62	11.17	31.02	23.06	12.04	27.96	21.12	13.01	26.01	20.09	14.31
		30°C	34.57	30.10	9.75	33.48	29.55	10.41	32.33	28.98	11.18	31.11	28.37	12.05	28.06	26.09	13.03	26.12	24.94	14.32
		33°C	34.77	34.77	9.76	33.78	33.78	10.44	32.80	32.80	11.22	31.81	31.81	12.12	28.93	28.93	13.12	27.24	27.24	14.46
	22°C	27°C	37.69	19.83	9.99	36.50	19.40	10.67	35.26	18.95	11.45	33.95	18.47	12.33	30.62	16.90	13.31	28.51	16.05	14.62
		30°C	37.74	24.52	10.00	36.56	24.03	10.68	35.32	23.53	11.46	34.02	22.98	12.34	30.69	21.07	13.32	28.59	20.07	14.62
		33°C	37.85	28.57	10.01	36.67	28.06	10.69	35.43	27.53	11.47	34.12	26.97	12.35	30.79	24.81	13.33	28.69	23.74	14.64
		36°C	37.96	32.53	10.02	36.77	32.02	10.70	35.52	31.48	11.48	34.22	30.92	12.36	30.91	28.48	13.34	28.94	27.15	14.67
3750	16°C	21°C	31.93	23.25	9.54	30.90	22.75	10.20	29.80	22.21	10.95	28.64	21.60	11.82	25.77	19.70	12.78	23.92	18.62	14.06
		24°C	32.09	27.71	9.56	31.07	27.15	10.21	29.98	26.55	10.97	28.81	25.91	11.83	25.93	23.73	12.80	24.06	22.57	14.08
		27°C	32.31	32.13	9.57	31.36	31.36	10.23	30.37	30.37	11.00	29.39	29.39	11.89	26.66	26.66	12.87	25.01	25.01	14.19
		30°C	33.99	33.99	9.70	33.11	33.11	10.38	32.17	32.17	11.16	31.17	31.17	12.06	28.30	28.30	13.05	26.60	26.60	14.38
	19°C	24°C	35.05	21.94	9.79	33.94	21.48	10.45	32.75	20.99	11.22	31.49	20.47	12.09	28.36	18.73	13.06	26.37	17.79	14.35
		27°C	35.18	25.69	9.80	34.07	25.17	10.46	32.89	24.62	11.23	31.64	24.05	12.10	28.50	22.04	13.07	26.50	20.98	14.37
		30°C	35.34	31.51	9.81	34.22	30.95	10.48	33.02	30.36	11.24	31.78	29.76	12.12	28.65	27.35	13.09	26.72	26.01	14.40
		33°C	35.90	35.90	9.85	34.98	34.98	10.54	34.01	34.01	11.33	32.98	32.98	12.23	29.98	29.98	13.24	28.22	28.22	14.58
	22°C	27°C	38.42	20.60	10.05	37.19	20.16	10.73	35.90	19.71	11.51	34.55	19.23	12.39	31.14	17.62	13.37	28.99	16.76	14.67
		30°C	38.51	25.59	10.06	37.28	25.07	10.74	36.00	24.54	11.52	34.65	23.99	12.40	31.25	22.00	13.38	29.10	20.97	14.68
		33°C	38.66	29.92	10.07	37.43	29.40	10.75	36.14	28.86	11.53	34.79	28.29	12.42	31.37	26.04	13.40	29.22	24.93	14.70
		36°C	38.79	34.21	10.09	37.56	33.68	10.77	36.29	33.08	11.55	35.04	32.38	12.44	31.76	29.93	13.44	29.86	28.54	14.78
4125	16°C	21°C	32.49	23.88	9.59	31.43	23.33	10.24	30.30	22.74	11.00	29.12	22.11	11.86	26.19	20.16	12.82	24.29	19.06	14.11
		24°C	32.70	28.46	9.60	31.64	27.88	10.26	30.51	27.28	11.02	29.31	26.64	11.88	26.36	24.40	12.84	24.46	23.23	14.13
		27°C	33.16	33.16	9.64	32.23	32.23	10.31	31.29	31.29	11.08	30.27	30.27	11.97	27.44	27.44	12.96	25.72	25.72	14.28
		30°C	35.08	35.08	9.79	34.15	34.15	10.47	33.17	33.17	11.26	32.12	32.12	12.15	29.15	29.15	13.15	27.38	27.38	14.48
	19°C	24°C	35.64	22.96	9.83	34.49	22.49	10.50	33.26	21.99	11.26	31.97	21.46	12.13	28.79	19.61	13.10	26.74	18.58	14.40
		27°C	35.82	26.88	9.85	34.67	26.35	10.51	33.44	25.78	11.28	32.16	25.19	12.15	28.95	23.10	13.12	26.90	22.01	14.42
		30°C	36.01	33.12	9.86	34.83	32.55	10.53	33.63	31.94	11.30	32.38	31.25	12.17	29.26	28.57	13.16	27.39	26.98	14.48
		33°C	37.06	37.06	9.95	36.10	36.10	10.64	35.09	35.09	11.43	34.01	34.01	12.34	30.90	30.90	13.34	29.07	29.07	14.68
	22°C	27°C	39.03	21.55	10.10	37.76	21.11	10.78	36.44	20.65	11.56	35.05	20.18	12.44	31.59	18.50	13.42	29.39	17.61	14.72
		30°C	39.16	26.80	10.12	37.90	26.27	10.80	36.59	25.72	11.57	35.20	25.15	12.45	31.73	23.08	13.43	29.53	22.02	14.74
		33°C	39.34	31.47	10.13	38.07	30.94	10.81	36.75	30.38	11.59	35.36	29.80	12.47	31.86	27.44	13.45	29.66	26.30	14.76
		36°C	39.54	36.05	10.15	38.36	35.38	10.83	37.15	34.60	11.63	35.95	33.70	12.53	32.68	30.99	13.55	30.79	29.42	14.90

**Remark:**

- AFR: Air flow rate (CFM)
- EWB: Entering Wet Bulb Temp. (°C)
- EDB: Entering Dry Bulb Temp. (°C)
- TC: Total Cooling Capacity (kW)
- SC: Sensible Cooling Capacity (kW)
- PI: Power Input (kW)

**Notes:**

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

## Model: FDP150DXY1 - RCP150DXY1

## Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
4050	16°C	21°C	42.00	28.04	12.74	40.67	27.42	13.61	39.25	26.77	14.63	37.74	26.07	15.79	33.96	23.80	17.08	31.54	22.52	18.81
		24°C	42.16	33.40	12.75	40.83	32.71	13.63	39.42	31.97	14.65	37.91	31.20	15.80	34.14	28.55	17.10	31.70	27.13	18.83
		27°C	42.32	38.45	12.77	41.03	37.73	13.64	39.65	36.95	14.66	38.24	36.00	15.84	34.62	32.78	17.15	32.49	30.79	18.92
		30°C	44.00	44.00	12.89	42.89	42.89	13.80	41.69	41.69	14.85	40.42	40.42	16.04	36.71	36.71	17.38	34.52	34.52	19.16
	19°C	24°C	46.14	26.49	13.06	44.71	25.92	13.95	43.17	25.30	14.98	41.54	24.66	16.15	37.42	22.54	17.45	34.79	21.39	19.19
		27°C	46.26	30.95	13.07	44.82	30.32	13.96	43.29	29.65	14.99	41.67	28.94	16.16	37.56	26.50	17.46	34.94	25.21	19.21
		30°C	46.44	37.77	13.08	44.98	37.08	13.98	43.43	36.36	15.01	41.79	35.61	16.18	37.69	32.73	17.48	35.08	31.30	19.22
		33°C	46.71	46.71	13.10	45.38	45.38	14.01	44.05	44.05	15.06	42.73	42.73	16.26	38.86	38.86	17.61	36.60	36.60	19.41
	22°C	27°C	50.63	24.89	13.41	49.03	24.34	14.32	47.36	23.77	15.37	45.61	23.18	16.55	41.14	21.21	17.86	38.30	20.15	19.61
		30°C	50.70	30.77	13.42	49.10	30.16	14.33	47.45	29.52	15.37	45.70	28.84	16.55	41.22	26.44	17.87	38.40	25.19	19.62
		33°C	50.84	35.85	13.43	49.25	35.21	14.34	47.59	34.55	15.39	45.84	33.85	16.57	41.35	31.13	17.89	38.53	29.79	19.64
		36°C	50.98	40.82	13.44	49.40	40.18	14.36	47.71	39.50	15.40	45.97	38.80	16.59	41.52	35.74	17.91	38.87	34.06	19.68
4500	16°C	21°C	42.88	29.17	12.81	41.51	28.55	13.68	40.03	27.87	14.70	38.46	27.11	15.86	34.62	24.73	17.15	32.13	23.37	18.87
		24°C	43.11	34.78	12.83	41.73	34.07	13.70	40.27	33.32	14.72	38.70	32.52	15.88	34.83	29.78	17.17	32.31	28.32	18.90
		27°C	43.40	40.31	12.85	42.12	39.45	13.73	40.80	38.43	14.77	39.48	37.23	15.95	35.81	33.93	17.28	33.59	31.92	19.05
		30°C	45.65	45.65	13.02	44.48	44.48	13.93	43.22	43.22	14.98	41.87	41.87	16.18	38.02	38.02	17.52	35.73	35.73	19.30
	19°C	24°C	47.08	27.54	13.13	45.59	26.96	14.02	43.99	26.34	15.05	42.30	25.69	16.22	38.09	23.50	17.53	35.42	22.32	19.26
		27°C	47.26	32.23	13.15	45.77	31.58	14.04	44.18	30.90	15.07	42.50	30.18	16.24	38.28	27.65	17.54	35.60	26.33	19.28
		30°C	47.48	39.54	13.16	45.96	38.84	14.06	44.36	38.10	15.09	42.69	37.34	16.26	38.48	34.32	17.57	35.89	32.64	19.32
		33°C	48.22	48.22	13.22	46.99	46.99	14.14	45.69	45.69	15.21	44.30	44.30	16.42	40.27	40.27	17.77	37.90	37.90	19.57
	22°C	27°C	51.60	25.85	13.49	49.95	25.30	14.40	48.23	24.73	15.45	46.40	24.14	16.63	41.83	22.11	17.94	38.94	21.04	19.69
		30°C	51.73	32.11	13.50	50.08	31.47	14.41	48.36	30.80	15.46	46.55	30.10	16.64	41.97	27.61	17.96	39.09	26.32	19.71
		33°C	51.93	37.55	13.52	50.28	36.89	14.43	48.55	36.21	15.48	46.73	35.50	16.66	42.14	32.67	17.98	39.25	31.29	19.73
		36°C	52.11	42.93	13.54	50.45	42.27	14.45	48.75	41.51	15.50	47.06	40.63	16.69	42.66	37.56	18.04	40.11	35.81	19.84
4950	16°C	21°C	43.64	29.97	12.86	42.21	29.27	13.74	40.70	28.53	14.76	39.11	27.75	15.92	35.17	25.30	17.21	32.63	23.91	18.94
		24°C	43.92	35.71	12.89	42.49	34.99	13.77	40.98	34.23	14.78	39.37	33.43	15.94	35.40	30.63	17.24	32.85	29.15	18.96
		27°C	44.54	41.62	12.93	43.30	40.94	13.83	42.02	40.14	14.88	40.66	39.23	16.06	36.85	35.66	17.39	34.55	33.60	19.16
		30°C	47.12	47.12	13.14	45.88	45.88	14.05	44.56	44.56	15.11	43.15	43.15	16.30	39.16	39.16	17.64	36.78	36.78	19.43
	19°C	24°C	47.87	28.82	13.19	46.33	28.23	14.09	44.68	27.60	15.12	42.95	26.93	16.28	38.67	24.61	17.58	35.92	23.31	19.32
		27°C	48.11	33.73	13.21	46.57	33.07	14.11	44.92	32.35	15.14	43.19	31.61	16.31	38.89	28.99	17.61	36.14	27.62	19.35
		30°C	48.36	41.57	13.23	46.78	40.84	14.13	45.18	40.08	15.16	43.49	39.21	16.34	39.30	35.85	17.66	36.79	33.85	19.43
		33°C	49.78	49.78	13.35	48.49	48.49	14.28	47.14	47.14	15.35	45.69	45.69	16.56	41.51	41.51	17.91	39.05	39.05	19.71
	22°C	27°C	52.42	27.04	13.56	50.73	26.49	14.47	48.94	25.91	15.52	47.08	25.32	16.69	42.43	23.22	18.01	39.48	22.10	19.76
		30°C	52.60	33.63	13.58	50.91	32.97	14.49	49.14	32.28	15.53	47.28	31.56	16.72	42.62	28.96	18.03	39.67	27.63	19.78
		33°C	52.85	39.50	13.60	51.14	38.82	14.51	49.36	38.12	15.56	47.49	37.39	16.74	42.80	34.43	18.06	39.85	33.00	19.81
		36°C	53.11	45.23	13.62	51.52	44.40	14.54	49.90	43.42	15.61	48.29	42.29	16.82	43.89	38.88	18.18	41.35	36.92	20.00

## Remark:

AFR: Air flow rate (CFM)  
EWB: Entering Wet Bulb Temp. (°C)  
EDB: Entering Dry Bulb Temp. (°C)  
TC: Total Cooling Capacity (kW)  
SC: Sensible Cooling Capacity (kW)  
PI: Power Input (kW)

## Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: 2FDP150DX1 - RCP75DX1 x 2

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
4050	16°C	21°C	42.28	30.62	12.19	40.95	29.95	13.02	39.52	29.23	14.00	37.99	28.47	15.10	34.19	25.99	16.34	31.76	24.59	17.99
		24°C	42.45	36.47	12.20	41.11	35.71	13.04	39.69	34.91	14.01	38.17	34.06	15.12	34.37	31.18	16.36	31.92	29.62	18.01
		27°C	42.61	41.98	12.21	41.31	41.20	13.05	39.92	39.92	14.03	38.50	38.50	15.15	34.85	34.85	16.41	32.71	32.71	18.10
		30°C	44.30	44.30	12.33	43.18	43.18	13.20	41.98	41.98	14.20	40.69	40.69	15.35	36.97	36.97	16.62	34.76	34.76	18.33
	19°C	24°C	46.46	28.93	12.49	45.01	28.30	13.35	43.47	27.63	14.33	41.83	26.93	15.45	37.68	24.61	16.69	35.03	23.36	18.36
		27°C	46.58	33.79	12.50	45.13	33.10	13.35	43.59	32.37	14.34	41.95	31.60	15.46	37.81	28.94	16.71	35.18	27.53	18.37
		30°C	46.76	41.24	12.52	45.28	40.49	13.37	43.73	39.71	14.36	42.08	38.88	15.48	37.94	35.74	16.73	35.32	34.17	18.39
		33°C	47.03	47.03	12.53	45.69	45.69	13.40	44.35	44.35	14.41	43.02	43.02	15.56	39.12	39.12	16.85	36.85	36.85	18.57
	22°C	27°C	50.97	27.18	12.83	49.36	26.58	13.70	47.69	25.96	14.70	45.92	25.31	15.83	41.42	23.16	17.09	38.56	22.00	18.77
		30°C	51.04	33.59	12.84	49.44	32.93	13.71	47.77	32.23	14.71	46.01	31.49	15.84	41.50	28.87	17.10	38.66	27.50	18.77
		33°C	51.19	39.15	12.85	49.59	38.45	13.72	47.91	37.72	14.72	46.15	36.96	15.85	41.64	33.99	17.11	38.80	32.52	18.79
		36°C	51.33	44.58	12.86	49.73	43.87	13.73	48.04	43.13	14.74	46.28	42.37	15.87	41.80	39.03	17.13	39.14	37.19	18.83
4500	16°C	21°C	43.18	31.85	12.25	41.79	31.17	13.09	40.30	30.43	14.06	38.73	29.60	15.17	34.85	27.00	16.41	32.35	25.52	18.06
		24°C	43.40	37.97	12.27	42.02	37.20	13.11	40.54	36.38	14.08	38.96	35.51	15.19	35.07	32.52	16.43	32.53	30.92	18.08
		27°C	43.70	43.70	12.29	42.41	42.41	13.14	41.08	41.08	14.13	39.75	39.75	15.26	36.05	36.05	16.53	33.82	33.82	18.22
		30°C	45.97	45.97	12.46	44.78	44.78	13.33	43.51	43.51	14.34	42.16	42.16	15.48	38.28	38.28	16.76	35.97	35.97	18.47
	19°C	24°C	47.40	30.07	12.56	45.91	29.43	13.42	44.29	28.76	14.40	42.59	28.05	15.52	38.35	25.66	16.77	35.66	24.37	18.43
		27°C	47.58	35.19	12.58	46.08	34.49	13.43	44.48	33.74	14.42	42.79	32.95	15.54	38.54	30.19	16.79	35.84	28.75	18.45
		30°C	47.80	43.17	12.59	46.27	42.41	13.45	44.66	41.60	14.44	42.98	40.77	15.56	38.74	37.48	16.81	36.13	35.64	18.49
		33°C	48.55	48.55	12.65	47.31	47.31	13.53	46.00	46.00	14.55	44.61	44.61	15.71	40.54	40.54	17.00	38.16	38.16	18.72
	22°C	27°C	51.96	28.23	12.91	50.29	27.63	13.78	48.56	27.01	14.78	46.72	26.35	15.91	42.12	24.14	17.16	39.21	22.97	18.84
		30°C	52.08	35.06	12.92	50.42	34.36	13.79	48.69	33.63	14.79	46.86	32.87	15.92	42.26	30.15	17.18	39.36	28.74	18.85
		33°C	52.28	41.00	12.94	50.62	40.29	13.81	48.88	39.54	14.81	47.04	38.76	15.94	42.43	35.67	17.20	39.52	34.16	18.88
		36°C	52.46	46.87	12.95	50.80	46.15	13.82	49.08	45.33	14.83	47.38	44.37	15.97	42.95	41.01	17.26	40.38	39.10	18.98
4950	16°C	21°C	43.94	32.72	12.31	42.50	31.96	13.15	40.98	31.16	14.12	39.38	30.30	15.23	35.41	27.63	16.46	32.85	26.11	18.12
		24°C	44.22	38.99	12.33	42.78	38.21	13.17	41.26	37.38	14.14	39.64	36.50	15.25	35.65	33.44	16.49	33.08	31.83	18.14
		27°C	44.84	44.84	12.37	43.59	43.59	13.23	42.31	42.31	14.23	40.94	40.94	15.37	37.11	37.11	16.64	34.79	34.79	18.33
		30°C	47.44	47.44	12.57	46.19	46.19	13.44	44.86	44.86	14.45	43.45	43.45	15.60	39.43	39.43	16.88	37.03	37.03	18.59
	19°C	24°C	48.20	31.47	12.62	46.64	30.82	13.48	44.99	30.14	14.46	43.24	29.40	15.58	38.93	26.87	16.82	36.17	25.46	18.49
		27°C	48.44	36.83	12.64	46.89	36.10	13.50	45.23	35.33	14.48	43.49	34.52	15.60	39.15	31.65	16.85	36.39	30.16	18.51
		30°C	48.69	45.39	12.66	47.10	44.60	13.52	45.49	43.76	14.51	43.79	42.82	15.63	39.56	39.15	16.89	37.04	36.96	18.59
		33°C	50.12	50.12	12.77	48.82	48.82	13.66	47.46	47.46	14.68	46.00	46.00	15.84	41.79	41.79	17.13	39.31	39.31	18.85
	22°C	27°C	52.78	29.53	12.97	51.07	28.92	13.84	49.28	28.29	14.84	47.40	27.65	15.97	42.72	25.35	17.23	39.74	24.13	18.90
		30°C	52.96	36.72	12.99	51.26	36.00	13.86	49.48	35.25	14.86	47.61	34.46	15.99	42.91	31.62	17.25	39.94	30.17	18.92
		33°C	53.21	43.13	13.01	51.49	42.39	13.88	49.70	41.63	14.88	47.81	40.83	16.02	43.09	37.59	17.27	40.12	36.03	18.95
		36°C	53.47	49.39	13.03	51.87	48.48	13.91	50.24	47.41	14.93	48.61	46.17	16.09	44.19	42.46	17.39	41.64	40.32	19.13

Remark:

- AFR: Air flow rate (CFM)
- EWB: Entering Wet Bulb Temp. (°C)
- EDB: Entering Dry Bulb Temp. (°C)
- TC: Total Cooling Capacity (kW)
- SC: Sensible Cooling Capacity (kW)
- PI: Power Input (kW)

Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

## Model: 2FDP200DXY1 - RCP100DXY1 x 2

## Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
5400	16°C	21°C	52.71	36.68	17.55	51.04	35.87	18.76	49.27	35.02	20.15	47.36	34.11	21.75	42.62	31.14	23.53	39.59	29.46	25.91
		24°C	52.92	43.70	17.57	51.25	42.79	18.78	49.47	41.83	20.18	47.58	40.81	21.77	42.85	37.35	23.56	39.79	35.49	25.94
		27°C	53.11	50.30	17.59	51.49	49.36	18.80	49.76	48.34	20.20	47.99	47.09	21.82	43.44	42.89	23.63	40.77	40.28	26.06
		30°C	55.22	55.22	17.76	53.83	53.83	19.01	52.33	52.33	20.45	50.72	50.72	22.10	46.08	46.08	23.94	43.33	43.33	26.39
	19°C	24°C	57.91	34.66	17.99	56.11	33.90	19.22	54.18	33.10	20.63	52.14	32.26	22.24	46.97	29.49	24.04	43.67	27.98	26.44
		27°C	58.06	40.48	18.00	56.25	39.66	19.23	54.33	38.78	20.65	52.30	37.85	22.26	47.14	34.67	24.06	43.86	32.98	26.46
		30°C	58.28	49.40	18.02	56.45	48.51	19.25	54.51	47.57	20.67	52.45	46.58	22.29	47.30	42.82	24.09	44.03	40.94	26.48
		33°C	58.62	58.62	18.05	56.95	56.95	19.30	55.29	55.29	20.75	53.63	53.63	22.41	48.77	48.77	24.26	45.93	45.93	26.74
	22°C	27°C	63.54	32.56	18.48	61.53	31.84	19.73	59.44	31.10	21.17	57.24	30.32	22.80	51.63	27.74	24.61	48.07	26.35	27.02
		30°C	63.63	40.25	18.49	61.63	39.45	19.74	59.55	38.62	21.18	57.35	37.72	22.81	51.73	34.58	24.62	48.19	32.95	27.04
		33°C	63.81	46.90	18.50	61.81	46.06	19.76	59.73	45.19	21.20	57.53	44.28	22.83	51.90	40.72	24.64	48.36	38.96	27.06
		36°C	63.99	53.40	18.52	62.00	52.56	19.78	59.88	51.67	21.22	57.69	50.75	22.85	52.10	46.76	24.67	48.78	44.56	27.12
6000	16°C	21°C	53.82	38.16	17.64	52.10	37.35	18.85	50.24	36.45	20.25	48.28	35.46	21.85	43.45	32.34	23.63	40.32	30.57	26.00
		24°C	54.10	45.49	17.67	52.38	44.56	18.88	50.54	43.58	20.28	48.57	42.54	21.88	43.71	38.96	23.66	40.56	37.04	26.04
		27°C	54.48	52.74	17.70	52.86	51.60	18.92	51.21	50.26	20.35	49.55	48.70	21.98	44.94	44.38	23.80	42.16	41.76	26.24
		30°C	57.30	57.30	17.94	55.83	55.83	19.19	54.24	54.24	20.64	52.55	52.55	22.29	47.71	47.71	24.13	44.84	44.84	26.59
	19°C	24°C	59.09	36.02	18.09	57.22	35.26	19.32	55.21	34.45	20.74	53.09	33.60	22.35	47.81	30.75	24.14	44.45	29.20	26.54
		27°C	59.32	42.16	18.11	57.44	41.32	19.34	55.45	40.42	20.76	53.34	39.47	22.37	48.05	36.17	24.17	44.68	34.44	26.56
		30°C	59.59	51.72	18.14	57.68	50.80	19.37	55.67	49.84	20.79	53.57	48.85	22.40	48.30	44.90	24.20	45.04	42.70	26.62
		33°C	60.52	60.52	18.21	58.97	58.97	19.49	57.34	57.34	20.96	55.61	55.61	22.62	50.54	50.54	24.48	47.57	47.57	26.96
	22°C	27°C	64.76	33.82	18.59	62.69	33.10	19.84	60.53	32.35	21.28	58.24	31.57	22.91	52.50	28.92	24.72	48.87	27.52	27.13
		30°C	64.92	42.00	18.60	62.85	41.16	19.86	60.70	40.29	21.30	58.42	39.38	22.93	52.68	36.12	24.74	49.06	34.43	27.15
		33°C	65.17	49.12	18.63	63.11	48.26	19.88	60.93	47.37	21.33	58.64	46.43	22.96	52.89	42.74	24.77	49.26	40.93	27.18
		36°C	65.40	56.15	18.65	63.32	55.29	19.91	61.18	54.30	21.35	59.07	53.15	23.00	53.54	49.13	24.85	50.34	46.85	27.33
6600	16°C	21°C	54.77	39.20	17.72	52.98	38.29	18.93	51.08	37.32	20.33	49.08	36.30	21.93	44.15	33.10	23.71	40.95	31.28	26.09
		24°C	55.13	46.71	17.75	53.33	45.77	18.97	51.44	44.78	20.37	49.42	43.73	21.96	44.43	40.06	23.75	41.23	38.13	26.12
		27°C	55.90	54.45	17.82	54.34	53.55	19.06	52.74	52.51	20.49	51.03	51.03	22.13	46.25	46.25	23.96	43.37	43.37	26.40
		30°C	59.14	59.14	18.10	57.58	57.58	19.36	55.92	55.92	20.81	54.16	54.16	22.46	49.15	49.15	24.31	46.16	46.16	26.77
	19°C	24°C	60.08	37.70	18.18	58.14	36.92	19.41	56.08	36.10	20.83	53.90	35.22	22.43	48.53	32.19	24.23	45.09	30.50	26.62
		27°C	60.38	44.13	18.20	58.45	43.25	19.44	56.38	42.32	20.86	54.21	41.35	22.47	48.81	37.92	24.27	45.36	36.13	26.66
		30°C	60.70	54.37	18.23	58.72	53.43	19.47	56.70	52.42	20.89	54.58	51.29	22.51	49.32	46.90	24.33	46.17	44.28	26.77
		33°C	62.48	62.48	18.39	60.86	60.86	19.67	59.16	59.16	21.14	57.34	57.34	22.81	52.10	52.10	24.67	49.01	49.01	27.15
	22°C	27°C	65.79	35.37	18.68	63.67	34.65	19.94	61.43	33.89	21.37	59.09	33.12	23.00	53.25	30.38	24.81	49.54	28.90	27.22
		30°C	66.01	43.99	18.70	63.89	43.13	19.96	61.68	42.23	21.40	59.34	41.28	23.03	53.49	37.88	24.84	49.79	36.14	27.25
		33°C	66.33	51.67	18.73	64.19	50.78	19.99	61.95	49.87	21.43	59.60	48.91	23.06	53.72	45.04	24.87	50.01	43.17	27.29
		36°C	66.66	59.17	18.76	64.66	58.08	20.03	62.63	56.80	21.50	60.60	55.32	23.17	55.09	50.86	25.05	51.90	48.30	27.55

**Remark:**

AFR: Air flow rate (CFM)  
EWB: Entering Wet Bulb Temp. (°C)  
EDB: Entering Dry Bulb Temp. (°C)  
TC: Total Cooling Capacity (kW)  
SC: Sensible Cooling Capacity (kW)  
PI: Power Input (kW)

**Notes:**

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

Model: 2FGP250DXY1 - RCP125DXY1 x 2

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
6750	16°C	21°C	62.56	44.72	20.13	60.58	43.73	21.51	58.47	42.69	23.12	56.21	41.58	24.94	50.58	37.96	26.99	46.99	35.91	29.72
		24°C	62.81	53.26	20.15	60.82	52.16	21.53	58.72	50.98	23.14	56.48	49.74	24.97	50.85	45.53	27.02	47.23	43.26	29.75
		27°C	63.04	61.31	20.17	61.11	60.17	21.56	59.06	58.93	23.17	56.97	56.97	25.02	51.57	51.57	27.10	48.39	48.39	29.89
		30°C	65.54	65.54	20.37	63.89	63.89	21.80	62.11	62.11	23.46	60.21	60.21	25.35	54.69	54.69	27.46	51.43	51.43	30.27
	19°C	24°C	68.74	42.24	20.64	66.60	41.33	22.04	64.31	40.35	23.67	61.88	39.32	25.51	55.75	35.95	27.57	51.83	34.11	30.32
		27°C	68.91	49.35	20.65	66.77	48.34	22.06	64.49	47.27	23.69	62.07	46.14	25.53	55.95	42.26	27.60	52.05	40.20	30.35
		30°C	69.18	60.22	20.67	67.00	59.13	22.08	64.70	57.98	23.71	62.26	56.78	25.56	56.14	52.20	27.63	52.26	49.91	30.38
		33°C	69.58	69.58	20.70	67.60	67.60	22.13	65.62	65.62	23.80	63.65	63.65	25.70	57.89	57.89	27.83	54.51	54.51	30.67
	22°C	27°C	75.42	39.69	21.20	73.03	38.81	22.63	70.55	37.91	24.28	67.94	36.97	26.15	61.28	33.82	28.23	57.05	32.13	30.99
		30°C	75.52	49.06	21.21	73.15	48.09	22.64	70.68	47.07	24.29	68.07	45.99	26.16	61.40	42.16	28.24	57.20	40.16	31.01
		33°C	75.73	57.17	21.22	73.37	56.15	22.66	70.89	55.09	24.32	68.28	53.97	26.18	61.60	49.64	28.27	57.40	47.49	31.04
		36°C	75.95	65.10	21.24	73.58	64.07	22.68	71.07	62.98	24.34	68.48	61.87	26.21	61.84	56.99	28.29	57.90	54.32	31.11
7500	16°C	21°C	63.88	46.52	20.24	61.83	45.53	21.62	59.63	44.44	23.23	57.30	43.23	25.06	51.57	39.43	27.10	47.86	37.26	29.82
		24°C	64.21	55.45	20.27	62.17	54.32	21.65	59.98	53.13	23.26	57.65	51.85	25.09	51.88	47.49	27.14	48.14	45.15	29.86
		27°C	64.66	64.28	20.30	62.74	62.74	21.70	60.78	60.78	23.34	58.82	58.82	25.21	53.34	53.34	27.30	50.04	50.04	30.10
		30°C	68.01	68.01	20.57	66.26	66.26	22.01	64.38	64.38	23.68	62.38	62.38	25.57	56.63	56.63	27.68	53.22	53.22	30.50
	19°C	24°C	70.14	43.91	20.75	67.92	42.98	22.16	65.53	42.00	23.79	63.02	40.96	25.63	56.74	37.48	27.69	52.76	35.60	30.44
		27°C	70.40	51.40	20.77	68.18	50.36	22.18	65.81	49.27	23.81	63.31	48.12	25.66	57.03	44.09	27.72	53.03	41.99	30.47
		30°C	70.72	63.04	20.80	68.46	61.93	22.22	66.07	60.76	23.85	63.59	59.54	25.69	57.32	54.73	27.76	53.46	52.05	30.53
		33°C	71.83	71.83	20.89	70.00	70.00	22.35	68.06	68.06	24.04	66.00	66.00	25.94	59.99	59.99	28.08	56.46	56.46	30.92
	22°C	27°C	76.87	41.22	21.32	74.41	40.35	22.76	71.84	39.44	24.41	69.13	38.49	26.27	62.32	35.25	28.35	58.01	33.54	31.11
		30°C	77.05	51.20	21.34	74.60	50.17	22.78	72.04	49.11	24.43	69.34	48.00	26.30	62.52	44.02	28.37	58.23	41.97	31.14
		33°C	77.35	59.87	21.36	74.90	58.83	22.81	72.32	57.74	24.46	69.60	56.60	26.33	62.77	52.10	28.41	58.47	49.89	31.18
		36°C	77.62	68.45	21.39	75.16	67.40	22.83	72.62	66.19	24.49	70.11	64.79	26.38	63.55	59.89	28.50	59.75	57.11	31.35
8250	16°C	21°C	65.01	47.78	20.33	62.88	46.68	21.72	60.63	45.50	23.32	58.26	44.25	25.15	52.40	40.34	27.19	48.60	38.13	29.92
		24°C	65.43	56.94	20.36	63.30	55.80	21.75	61.05	54.59	23.36	58.65	53.31	25.19	52.74	48.83	27.24	48.94	46.48	29.96
		27°C	66.35	66.35	20.43	64.50	64.50	21.86	62.60	62.60	23.51	60.57	60.57	25.38	54.90	54.90	27.48	51.47	51.47	30.28
		30°C	70.20	70.20	20.76	68.34	68.34	22.20	66.38	66.38	23.87	64.28	64.28	25.76	58.33	58.33	27.88	54.79	54.79	30.70
	19°C	24°C	71.31	45.95	20.85	69.01	45.01	22.26	66.56	44.01	23.89	63.97	42.94	25.73	57.60	39.24	27.79	53.52	37.18	30.53
		27°C	71.67	53.79	20.88	69.38	52.73	22.29	66.92	51.59	23.92	64.34	50.41	25.77	57.93	46.22	27.83	53.83	44.04	30.58
		30°C	72.04	66.28	20.91	69.69	65.13	22.33	67.30	63.90	23.96	64.78	62.53	25.82	58.54	57.17	27.90	54.80	53.98	30.70
		33°C	74.16	74.16	21.09	72.24	72.24	22.56	70.22	70.22	24.25	68.06	68.06	26.16	61.83	61.83	28.30	58.17	58.17	31.14
	22°C	27°C	78.09	43.12	21.43	75.56	42.24	22.87	72.91	41.32	24.52	70.14	40.38	26.38	63.21	37.03	28.45	58.80	35.23	31.22
		30°C	78.35	53.63	21.45	75.83	52.57	22.89	73.20	51.47	24.55	70.44	50.32	26.41	63.49	46.18	28.49	59.10	44.05	31.26
		33°C	78.73	62.98	21.48	76.19	61.91	22.93	73.53	60.79	24.58	70.74	59.62	26.45	63.76	54.90	28.53	59.36	52.62	31.30
		36°C	79.12	72.13	21.52	76.75	70.79	22.98	74.33	69.23	24.66	71.93	67.43	26.58	65.39	62.00	28.73	61.60	58.88	31.60

Remark:

AFR: Air flow rate (CFM)  
 EWB: Entering Wet Bulb Temp. (°C)  
 EDB: Entering Dry Bulb Temp. (°C)  
 TC: Total Cooling Capacity (kW)  
 SC: Sensible Cooling Capacity (kW)  
 PI: Power Input (kW)

Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

## Model: 2FGP300DXY1 - RCP150DXY1 x 2

## Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8100	16°C	21°C	83.99	56.08	26.67	81.33	54.84	28.50	78.50	53.53	30.63	75.46	52.14	33.05	67.91	47.60	35.76	63.08	45.03	39.37
		24°C	84.31	66.80	26.70	81.65	65.41	28.53	78.83	63.94	30.66	75.82	62.38	33.09	68.27	57.10	35.80	63.40	54.26	39.42
		27°C	84.62	76.89	26.73	82.04	75.46	28.57	79.29	73.90	30.70	76.47	71.99	33.15	69.22	65.56	35.91	64.97	61.58	39.61
		30°C	87.98	87.98	26.99	85.76	85.76	28.89	83.38	83.38	31.08	80.82	80.82	33.58	73.42	73.42	36.38	69.04	69.04	40.11
	19°C	24°C	92.28	52.98	27.34	89.41	51.83	29.20	86.33	50.60	31.36	83.08	49.31	33.80	74.84	45.08	36.53	69.58	42.78	40.18
		27°C	92.51	61.89	27.36	89.63	60.63	29.22	86.57	59.28	31.38	83.33	57.87	33.83	75.11	53.00	36.56	69.88	50.42	40.21
		30°C	92.87	75.53	27.39	89.94	74.16	29.26	86.85	72.72	31.42	83.58	71.21	33.87	75.36	65.46	36.60	70.16	62.59	40.25
		33°C	93.41	93.41	27.43	90.74	90.74	29.32	88.10	88.10	31.53	85.45	85.45	34.05	77.71	77.71	36.87	73.18	73.18	40.63
	22°C	27°C	101.24	49.77	28.08	98.04	48.68	29.99	94.71	47.54	32.17	91.21	46.36	34.64	82.26	42.41	37.40	76.59	40.29	41.07
		30°C	101.38	61.53	28.10	98.19	60.31	30.00	94.89	59.04	32.19	91.38	57.67	34.66	82.43	52.87	37.41	76.79	50.37	41.08
		33°C	101.67	71.70	28.12	98.49	70.42	30.03	95.17	69.08	32.22	91.66	67.69	34.69	82.70	62.25	37.45	77.06	59.56	41.12
		36°C	101.96	81.64	28.15	98.78	80.35	30.06	95.41	78.99	32.25	91.93	77.59	34.72	83.02	71.48	37.49	77.73	68.12	41.21
9000	16°C	21°C	85.76	58.34	26.81	83.01	57.09	28.65	80.05	55.73	30.77	76.92	54.21	33.20	69.23	49.44	35.90	64.25	46.73	39.52
		24°C	86.20	69.54	26.85	83.45	68.13	28.69	80.52	66.63	30.82	77.39	65.03	33.24	69.65	59.56	35.95	64.62	56.63	39.57
		27°C	86.80	80.62	26.89	84.23	78.89	28.75	81.59	76.84	30.92	78.96	74.44	33.40	71.60	67.85	36.17	67.17	63.84	39.88
		30°C	91.30	91.30	27.26	88.95	88.95	29.17	86.43	86.43	31.37	83.74	83.74	33.87	76.03	76.03	36.68	71.44	71.44	40.41
	19°C	24°C	94.16	55.07	27.49	91.18	53.91	29.36	87.98	52.67	31.52	84.59	51.37	33.96	76.18	47.00	36.69	70.83	44.64	40.32
		27°C	94.51	64.46	27.52	91.53	63.16	29.39	88.35	61.79	31.55	84.99	60.34	34.00	76.56	55.30	36.73	71.19	52.65	40.37
		30°C	94.94	79.06	27.56	91.91	77.67	29.43	88.70	76.20	31.60	85.36	74.68	34.04	76.95	68.64	36.78	71.77	65.28	40.45
		33°C	96.43	96.43	27.68	93.96	93.96	29.61	91.36	91.36	31.85	88.60	88.60	34.37	80.53	80.53	37.20	75.80	75.80	40.96
	22°C	27°C	103.19	51.70	28.25	99.89	50.60	30.15	96.44	49.46	32.34	92.80	48.27	34.81	83.66	44.21	37.56	77.87	42.07	41.22
		30°C	103.44	64.21	28.27	100.15	62.92	30.18	96.71	61.59	32.37	93.08	60.20	34.84	83.94	55.21	37.59	78.17	52.63	41.26
		33°C	103.84	75.09	28.31	100.55	73.78	30.22	97.08	72.41	32.41	93.44	70.98	34.88	84.27	65.34	37.64	78.49	62.57	41.31
		36°C	104.20	85.85	28.34	100.89	84.52	30.25	97.49	83.01	32.45	94.11	81.25	34.95	85.31	75.11	37.76	80.21	71.62	41.54
9900	16°C	21°C	87.27	59.93	26.93	84.42	58.54	28.77	81.39	57.06	30.90	78.21	55.49	33.32	70.34	50.60	36.03	65.25	47.82	39.65
		24°C	87.84	71.41	26.98	84.98	69.98	28.82	81.96	68.46	30.95	78.74	66.85	33.38	70.80	61.24	36.09	65.70	58.30	39.70
		27°C	89.06	83.23	27.07	86.59	81.87	28.96	84.04	80.27	31.14	81.31	78.44	33.63	73.70	71.32	36.41	69.10	67.20	40.12
		30°C	94.23	94.23	27.50	91.74	91.74	29.42	89.11	89.11	31.63	86.29	86.29	34.13	78.31	78.31	36.94	73.55	73.55	40.68
	19°C	24°C	95.73	57.63	27.62	92.64	56.45	29.49	89.35	55.19	31.65	85.88	53.85	34.09	77.32	49.21	36.82	71.84	46.62	40.46
		27°C	96.21	67.46	27.66	93.13	66.12	29.54	89.83	64.70	31.70	86.38	63.22	34.14	77.77	57.96	36.88	72.27	55.23	40.51
		30°C	96.72	83.12	27.71	93.56	81.68	29.59	90.34	80.14	31.75	86.97	78.42	34.20	78.58	71.70	36.97	73.57	67.70	40.68
		33°C	99.55	99.55	27.94	96.98	96.98	29.89	94.26	94.26	32.13	91.37	91.37	34.66	83.01	83.01	37.49	78.09	78.09	41.26
	22°C	27°C	104.83	54.08	28.39	101.44	52.97	30.30	97.88	51.81	32.48	94.15	50.64	34.95	84.85	46.44	37.70	78.94	44.19	41.36
		30°C	105.18	67.26	28.42	101.80	65.93	30.33	98.27	64.55	32.52	94.56	63.11	34.99	85.23	57.91	37.75	79.33	55.25	41.41
		33°C	105.69	78.98	28.46	102.27	77.64	30.38	98.71	76.24	32.57	94.97	74.77	35.05	85.59	68.85	37.80	79.68	65.99	41.47
		36°C	106.21	90.46	28.51	103.03	88.78	30.44	99.79	86.83	32.68	96.56	84.57	35.22	87.78	77.76	38.06	82.70	73.84	41.86

## Remark:

AFR: Air flow rate (CFM)  
EWB: Entering Wet Bulb Temp. (°C)  
EDB: Entering Dry Bulb Temp. (°C)  
TC: Total Cooling Capacity (kW)  
SC: Sensible Cooling Capacity (kW)  
PI: Power Input (kW)

## Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

## Model: 4FGP400DXY1 - RCP100DXY1 x 4

## Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
10800	16°C	21°C	105.42	73.37	35.33	102.08	71.75	37.76	98.53	70.04	40.58	94.72	68.21	43.79	85.24	62.27	47.38	79.18	58.91	52.17
		24°C	105.83	87.39	35.37	102.49	85.57	37.80	98.95	83.65	40.62	95.17	81.61	43.84	85.69	74.70	47.43	79.58	70.98	52.22
		27°C	106.22	100.59	35.41	102.98	98.72	37.85	99.52	96.68	40.68	95.99	94.19	43.92	86.89	85.77	47.57	81.54	80.56	52.48
		30°C	110.43	110.43	35.76	107.65	107.65	38.27	104.65	104.65	41.18	101.45	101.45	44.49	92.16	92.16	48.20	86.65	86.65	53.14
	19°C	24°C	115.83	69.31	36.22	112.23	67.80	38.69	108.37	66.20	41.55	104.28	64.52	44.78	93.94	58.97	48.40	87.34	55.96	53.23
		27°C	116.12	80.97	36.25	112.50	79.31	38.72	108.67	77.56	41.58	104.60	75.71	44.82	94.27	69.34	48.44	87.71	65.96	53.27
		30°C	116.57	98.81	36.29	112.89	97.02	38.76	109.02	95.13	41.63	104.91	93.15	44.87	94.60	85.64	48.50	88.06	81.88	53.32
		33°C	117.25	117.25	36.34	113.90	113.90	38.85	110.58	110.58	41.78	107.26	107.26	45.11	97.54	97.54	48.85	91.86	91.86	53.83
	22°C	27°C	127.08	65.12	37.21	123.06	63.68	39.73	118.88	62.20	42.63	114.48	60.65	45.90	103.25	55.49	49.55	96.13	52.71	54.41
		30°C	127.26	80.49	37.22	123.25	78.90	39.75	119.10	77.23	42.65	114.70	75.45	45.92	103.47	69.17	49.57	96.39	65.89	54.43
		33°C	127.61	93.80	37.26	123.63	92.12	39.78	119.45	90.38	42.69	115.05	88.55	45.97	103.80	81.44	49.62	96.72	77.92	54.49
		36°C	127.98	106.80	37.29	123.99	105.12	39.82	119.76	103.34	42.73	115.39	101.51	46.01	104.21	93.51	49.67	97.57	89.12	54.60
12000	16°C	21°C	107.64	76.32	35.52	104.19	74.69	37.95	100.47	72.91	40.77	96.55	70.93	43.98	86.89	64.69	47.57	80.64	61.14	52.35
		24°C	108.20	90.98	35.57	104.75	89.13	38.01	101.07	87.16	40.83	97.14	85.08	44.04	87.42	77.91	47.63	81.11	74.08	52.42
		27°C	108.95	105.47	35.63	105.72	103.21	38.09	102.41	100.53	40.96	99.11	97.39	44.25	89.88	88.76	47.92	84.31	83.52	52.83
		30°C	114.60	114.60	36.12	111.65	111.65	38.64	108.48	108.48	41.56	105.11	105.11	44.88	95.43	95.43	48.59	89.67	89.67	53.54
	19°C	24°C	118.19	72.04	36.43	114.45	70.52	38.90	110.43	68.91	41.76	106.18	67.21	44.99	95.62	61.49	48.61	88.91	58.40	53.43
		27°C	118.63	84.33	36.47	114.89	82.63	38.94	110.89	80.83	41.80	106.68	78.94	45.04	96.09	72.34	48.67	89.36	68.88	53.49
		30°C	119.17	103.43	36.52	115.36	101.61	39.00	111.34	99.68	41.86	107.15	97.69	45.10	96.59	89.79	48.73	90.08	85.40	53.60
		33°C	121.04	121.04	36.67	117.94	117.94	39.24	114.68	114.68	42.19	111.21	111.21	45.54	101.08	101.08	49.28	95.14	95.14	54.27
	22°C	27°C	129.53	67.63	37.43	125.38	66.20	39.95	121.06	64.71	42.85	116.48	63.15	46.12	105.01	57.84	49.76	97.74	55.03	54.62
		30°C	129.84	84.00	37.46	125.70	82.32	39.98	121.39	80.58	42.88	116.83	78.75	46.16	105.36	72.23	49.81	98.12	68.85	54.67
		33°C	130.34	98.23	37.50	126.21	96.52	40.04	121.86	94.73	42.94	117.29	92.87	46.22	105.78	85.47	49.87	98.52	81.86	54.73
		36°C	130.79	112.31	37.55	126.64	110.58	40.08	122.37	108.60	42.99	118.13	106.30	46.31	107.08	98.27	50.03	100.68	93.69	55.03
13200	16°C	21°C	109.55	78.40	35.68	105.96	76.58	38.12	102.17	74.65	40.94	98.17	72.60	44.15	88.29	66.19	47.73	81.90	62.56	52.53
		24°C	110.25	93.43	35.75	106.67	91.54	38.18	102.87	89.56	41.01	98.83	87.46	44.22	88.87	80.12	47.81	82.46	76.27	52.60
		27°C	111.79	108.89	35.87	108.68	107.10	38.37	105.49	105.01	41.26	102.06	102.06	44.56	92.51	92.51	48.24	86.73	86.73	53.15
		30°C	118.28	118.28	36.43	115.16	115.16	38.97	111.85	111.85	41.90	108.31	108.31	45.23	98.30	98.30	48.94	92.32	92.32	53.89
	19°C	24°C	120.16	75.39	36.60	116.28	73.85	39.07	112.16	72.21	41.93	107.80	70.45	45.17	97.06	64.37	48.78	90.18	61.00	53.60
		27°C	120.77	88.25	36.65	116.90	86.51	39.13	112.76	84.64	42.00	108.42	82.71	45.24	97.62	75.83	48.86	90.71	72.25	53.68
		30°C	121.40	108.75	36.71	117.44	106.85	39.20	113.40	104.85	42.06	109.16	102.59	45.32	98.64	93.80	48.98	92.34	88.57	53.90
		33°C	124.96	124.96	37.02	121.72	121.72	39.60	118.32	118.32	42.57	114.69	114.69	45.92	104.19	104.19	49.67	98.02	98.02	54.66
	22°C	27°C	131.59	70.75	37.61	127.33	69.30	40.14	122.85	67.79	43.04	118.18	66.24	46.31	106.51	60.75	49.95	99.09	57.81	54.80
		30°C	132.03	87.99	37.66	127.78	86.26	40.19	123.35	84.45	43.09	118.69	82.57	46.36	106.98	75.77	50.01	99.58	72.28	54.87
		33°C	132.66	103.33	37.71	128.38	101.57	40.25	123.90	99.73	43.15	119.21	97.82	46.43	107.44	90.08	50.08	100.02	86.33	54.94
		36°C	133.32	118.34	37.77	129.32	116.15	40.33	125.25	113.59	43.29	121.20	110.63	46.66	110.18	101.73	50.43	103.80	96.60	55.46

## Remark:

AFR: Air flow rate (CFM)  
EWB: Entering Wet Bulb Temp. (°C)  
EDB: Entering Dry Bulb Temp. (°C)  
TC: Total Cooling Capacity (kW)  
SC: Sensible Cooling Capacity (kW)  
PI: Power Input (kW)

## Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

## Model: 4FGYP500DXY1 - RCP125DXY1 x 4

## Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
13500	16°C	21°C	125.11	87.07	42.22	121.15	85.15	45.12	116.94	83.12	48.49	112.42	80.96	52.32	101.16	73.91	56.61	93.97	69.91	62.33
		24°C	125.60	103.72	42.26	121.64	101.56	45.17	117.43	99.28	48.54	112.95	96.86	52.38	101.70	88.65	56.67	94.45	84.24	62.40
		27°C	126.06	119.38	42.31	122.22	117.16	45.22	118.11	114.74	48.60	113.92	111.78	52.48	103.12	101.79	56.84	96.78	95.61	62.70
		30°C	131.07	131.07	42.73	127.76	127.76	45.73	124.21	124.21	49.20	120.40	120.40	53.16	109.37	109.37	57.59	102.84	102.84	63.50
	19°C	24°C	137.46	82.26	43.28	133.19	80.47	46.23	128.61	78.57	49.64	123.76	76.57	53.51	111.49	69.99	57.83	103.65	66.42	63.60
		27°C	137.82	96.09	43.31	133.52	94.13	46.26	128.97	92.05	49.68	124.14	89.85	53.55	111.89	82.29	57.88	104.10	78.28	63.65
		30°C	138.35	117.27	43.36	133.99	115.14	46.32	129.38	112.91	49.74	124.51	110.56	53.61	112.27	101.64	57.94	104.51	97.18	63.71
		33°C	139.15	139.15	43.42	135.18	135.18	46.42	131.24	131.24	49.92	127.30	127.30	53.90	115.76	115.76	58.37	109.02	109.02	64.32
	22°C	27°C	150.82	77.28	44.46	146.05	75.58	47.47	141.09	73.82	50.93	135.87	71.98	54.84	122.54	65.85	59.20	114.09	62.55	65.01
		30°C	151.03	95.53	44.48	146.28	93.64	47.49	141.35	91.66	50.95	136.13	89.54	54.87	122.80	82.09	59.23	114.40	78.20	65.04
		33°C	151.45	111.32	44.52	146.72	109.33	47.54	141.77	107.26	51.00	136.55	105.09	54.92	123.19	96.66	59.29	114.79	92.48	65.10
		36°C	151.89	126.76	44.56	147.15	124.75	47.58	142.14	122.64	51.05	136.95	120.47	54.97	123.68	110.98	59.35	115.80	105.77	65.24
15000	16°C	21°C	127.75	90.58	42.44	123.66	88.65	45.35	119.25	86.53	48.72	114.59	84.18	52.55	103.12	76.77	56.84	95.71	72.56	62.56
		24°C	128.41	107.97	42.51	124.32	105.78	45.41	119.95	103.45	48.79	115.29	100.97	52.62	103.76	92.47	56.92	96.26	87.92	62.64
		27°C	129.30	125.17	42.57	125.47	122.49	45.52	121.55	119.31	48.94	117.62	115.59	52.87	106.67	105.35	57.26	100.07	99.12	63.13
		30°C	136.01	136.01	43.15	132.51	132.51	46.17	128.75	128.75	49.66	124.74	124.74	53.63	113.26	113.26	58.06	106.43	106.43	63.97
	19°C	24°C	140.26	85.50	43.52	135.83	83.70	46.48	131.06	81.78	49.89	126.02	79.76	53.76	113.48	72.98	58.08	105.52	69.31	63.84
		27°C	140.80	100.08	43.57	136.35	98.07	46.53	131.61	95.93	49.95	126.61	93.69	53.82	114.05	85.86	58.15	106.06	81.75	63.91
		30°C	141.44	122.75	43.63	136.92	120.59	46.59	132.14	118.31	50.02	127.17	115.95	53.89	114.64	106.57	58.22	106.91	101.36	64.04
		33°C	143.65	143.65	43.82	139.98	139.98	46.88	136.10	136.10	50.41	131.99	131.99	54.41	119.97	119.97	58.89	112.91	112.91	64.85
	22°C	27°C	153.73	80.27	44.72	148.80	78.56	47.74	143.67	76.80	51.20	138.24	74.94	55.11	124.63	68.64	59.46	116.00	65.32	65.26
		30°C	154.10	99.69	44.75	149.19	97.70	47.77	144.07	95.63	51.24	138.66	93.47	55.15	125.04	85.72	59.51	116.45	81.72	65.32
		33°C	154.69	116.58	44.81	149.79	114.56	47.84	144.63	112.43	51.30	139.20	110.21	55.22	125.54	101.44	59.58	116.92	97.15	65.39
		36°C	155.23	133.29	44.86	150.30	131.23	47.89	145.23	128.89	51.37	140.20	126.16	55.33	127.09	116.62	59.78	119.49	111.20	65.76
16500	16°C	21°C	130.01	93.04	42.64	125.76	90.89	45.55	121.25	88.59	48.92	116.51	86.16	52.75	104.79	78.56	57.03	97.20	74.25	62.76
		24°C	130.85	110.88	42.71	126.59	108.65	45.62	122.09	106.29	49.00	117.29	103.80	52.84	105.47	95.09	57.13	97.87	90.51	62.84
		27°C	132.68	129.23	42.86	128.99	127.11	45.84	125.19	124.63	49.30	121.12	121.12	53.24	109.79	109.79	57.64	102.94	102.94	63.51
		30°C	140.38	140.38	43.53	136.67	136.67	46.57	132.74	132.74	50.07	128.55	128.55	54.04	116.66	116.66	58.48	109.57	109.57	64.39
	19°C	24°C	142.61	89.48	43.73	138.01	87.64	46.69	133.11	85.70	50.10	127.94	83.61	53.97	115.19	76.40	58.28	107.02	72.39	64.04
		27°C	143.33	104.74	43.79	138.74	102.67	46.76	133.82	100.46	50.18	128.68	98.16	54.05	115.85	90.00	58.38	107.66	85.75	64.13
		30°C	144.08	129.06	43.86	139.37	126.81	46.83	134.58	124.43	50.26	129.56	121.75	54.15	117.07	111.32	58.53	109.59	105.11	64.40
		33°C	148.31	148.31	44.24	144.46	144.46	47.31	140.42	140.42	50.86	136.11	136.11	54.87	123.66	123.66	59.35	116.33	116.33	65.32
	22°C	27°C	156.17	83.96	44.94	151.12	82.24	47.96	145.81	80.45	51.42	140.26	78.62	55.33	126.40	72.10	59.68	117.60	68.60	65.48
		30°C	156.69	104.42	44.99	151.66	102.37	48.02	146.40	100.23	51.48	140.86	97.99	55.40	126.97	89.92	59.75	118.18	85.78	65.56
		33°C	157.44	122.63	45.06	152.36	120.54	48.09	147.05	118.37	51.56	141.48	116.09	55.48	127.51	106.90	59.84	118.70	102.46	65.65
		36°C	158.23	140.45	45.13	153.48	137.85	48.19	148.65	134.81	51.73	143.84	131.30	55.75	130.76	120.73	60.25	123.20	114.64	66.27

## Remark:

AFR: Air flow rate (CFM)  
 EWB: Entering Wet Bulb Temp. (°C)  
 EDB: Entering Dry Bulb Temp. (°C)  
 TC: Total Cooling Capacity (kW)  
 SC: Sensible Cooling Capacity (kW)  
 PI: Power Input (kW)

## Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB without pressure trip.

## R407C Heatpump

Model: FDYMP75DXV1 - RCYP75EXY1

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1250	16°C	21°C	20.72	14.26	6.14	19.98	13.89	6.64	19.24	13.52	7.19	18.47	13.13	7.80	16.96	12.22	8.46	15.66	11.49	9.32
		24°C	20.74	17.08	6.14	20.01	16.69	6.64	19.27	16.30	7.19	18.50	15.89	7.80	16.99	14.84	8.46	15.72	14.01	9.33
		27°C	20.91	19.36	6.15	20.21	18.92	6.65	19.50	18.48	7.21	18.77	18.00	7.82	17.32	16.75	8.49	16.11	15.73	9.36
		30°C	21.55	21.55	6.18	20.93	20.93	6.69	20.30	20.30	7.25	19.65	19.65	7.88	18.21	18.21	8.56	17.04	17.04	9.45
	19°C	24°C	22.85	13.32	6.24	22.05	12.98	6.75	21.24	12.63	7.31	20.40	12.28	7.93	18.75	11.43	8.61	17.33	10.77	9.48
		27°C	22.87	15.23	6.24	22.06	14.89	6.75	21.25	14.55	7.32	20.42	14.20	7.93	18.77	13.28	8.61	17.35	12.58	9.49
		30°C	22.90	18.80	6.24	22.11	18.40	6.75	21.33	17.99	7.32	20.52	17.56	7.94	18.89	16.42	8.62	17.53	15.54	9.50
		33°C	23.17	23.17	6.25	22.42	22.42	6.77	21.69	21.69	7.34	20.95	20.95	7.97	19.39	19.39	8.66	18.12	18.12	9.56
	22°C	27°C	25.14	13.03	6.35	24.27	12.72	6.88	23.39	12.40	7.46	22.47	12.06	8.09	20.66	11.24	8.77	19.13	10.59	9.67
		30°C	25.15	15.88	6.35	24.28	15.54	6.88	23.39	15.19	7.46	22.48	14.83	8.09	20.67	13.88	8.77	19.13	13.16	9.67
		33°C	25.16	18.55	6.35	24.29	18.20	6.88	23.41	17.83	7.46	22.49	17.47	8.09	20.70	16.40	8.78	19.18	15.58	9.67
		36°C	25.24	21.03	6.35	24.41	20.61	6.89	23.56	20.18	7.47	22.71	19.74	8.11	20.94	18.51	8.80	19.47	17.56	9.70
1600	16°C	21°C	21.56	14.88	6.19	20.78	14.50	6.70	20.00	14.11	7.25	19.18	13.72	7.87	17.60	12.77	8.53	16.23	12.02	9.40
		24°C	21.63	18.06	6.20	20.85	17.64	6.70	20.07	17.22	7.26	19.26	16.79	7.87	17.69	15.66	8.54	16.35	14.78	9.41
		27°C	21.89	20.52	6.21	21.15	20.04	6.72	20.42	19.52	7.28	19.69	18.94	7.90	18.18	17.59	8.58	16.93	16.46	9.47
		30°C	22.80	22.80	6.25	22.14	22.14	6.78	21.46	21.46	7.35	20.77	20.77	7.98	19.24	19.24	8.67	17.99	17.99	9.57
	19°C	24°C	23.75	14.08	6.30	22.91	13.73	6.81	22.05	13.37	7.38	21.16	13.00	8.01	19.43	12.11	8.68	17.95	11.42	9.57
		27°C	23.80	16.22	6.30	22.95	15.86	6.82	22.09	15.50	7.39	21.20	15.13	8.01	19.48	14.15	8.69	18.01	13.39	9.57
		30°C	23.91	20.00	6.30	23.08	19.57	6.83	22.25	19.13	7.40	21.40	18.67	8.02	19.70	17.45	8.71	18.28	16.49	9.60
		33°C	24.31	24.31	6.33	23.57	23.57	6.85	22.82	22.82	7.44	22.06	22.06	8.07	20.43	20.43	8.77	19.10	19.10	9.68
	22°C	27°C	26.10	13.78	6.41	25.18	13.46	6.95	24.24	13.12	7.53	23.28	12.77	8.16	21.39	11.91	8.85	19.79	11.24	9.75
		30°C	26.13	16.91	6.41	25.21	16.56	6.95	24.27	16.19	7.53	23.31	15.82	8.17	21.42	14.81	8.86	19.82	14.06	9.76
		33°C	26.18	19.82	6.42	25.27	19.44	6.95	24.34	19.05	7.54	23.38	18.64	8.18	21.51	17.48	8.87	19.94	16.60	9.77
		36°C	26.34	22.41	6.43	25.49	21.98	6.97	24.60	21.52	7.56	23.70	21.02	8.20	21.87	19.67	8.90	20.39	18.56	9.82
1950	16°C	21°C	22.36	15.53	6.24	21.54	15.14	6.75	20.71	14.74	7.31	19.86	14.33	7.93	18.21	13.34	8.60	16.79	12.56	9.48
		24°C	22.48	18.87	6.25	21.66	18.42	6.76	20.85	17.97	7.32	20.00	17.50	7.94	18.37	16.33	8.61	16.97	15.40	9.49
		27°C	22.84	21.63	6.27	22.09	21.07	6.79	21.35	20.48	7.35	20.58	19.85	7.98	19.02	18.38	8.67	17.72	17.16	9.56
		30°C	23.98	23.98	6.32	23.28	23.28	6.85	22.57	22.57	7.43	21.82	21.82	8.07	20.21	20.21	8.77	18.87	18.87	9.68
	19°C	24°C	24.61	14.90	6.35	23.72	14.53	6.87	22.82	14.16	7.44	21.89	13.77	8.07	20.09	12.84	8.75	18.55	12.11	9.64
		27°C	24.68	17.24	6.35	23.80	16.84	6.88	22.90	16.45	7.45	21.98	16.05	8.08	20.18	15.01	8.76	18.65	14.20	9.66
		30°C	24.89	21.21	6.36	24.01	20.75	6.89	23.15	20.27	7.47	22.26	19.77	8.10	20.50	18.46	8.79	19.03	17.40	9.69
		33°C	25.43	25.43	6.39	24.68	24.68	6.93	23.92	23.92	7.52	23.14	23.14	8.17	21.43	21.43	8.87	20.04	20.04	9.79
	22°C	27°C	27.01	14.57	6.47	26.05	14.25	7.01	25.07	13.90	7.59	24.06	13.53	8.23	22.10	12.63	8.93	20.42	11.92	9.83
		30°C	27.06	17.97	6.47	26.10	17.63	7.01	25.12	17.24	7.60	24.11	16.85	8.24	22.15	15.78	8.93	20.49	14.96	9.84
		33°C	27.16	21.06	6.48	26.22	20.69	7.02	25.25	20.25	7.61	24.26	19.81	8.25	22.32	18.56	8.95	20.68	17.62	9.86
		36°C	27.40	23.77	6.49	26.54	23.34	7.04	25.62	22.83	7.63	24.70	22.26	8.29	22.82	20.77	8.99	21.29	19.55	9.92
2250	16°C	21°C	22.36	15.67	6.31	21.57	15.29	6.79	20.78	14.91	7.34	19.97	14.52	7.98	18.35	13.53	8.70	16.94	12.75	9.66
		24°C	22.43	19.16	6.31	21.63	18.74	6.79	20.86	18.34	7.35	20.05	17.90	7.98	18.43	16.74	8.70	17.08	15.79	9.67
		27°C	22.81	21.97	6.33	22.10	21.42	6.82	21.40	20.85	7.38	20.68	20.23	8.02	19.16	19.12	8.75	17.90	17.90	9.74
		30°C	24.03	24.03	6.39	23.36	23.36	6.88	22.69	22.69	7.46	21.98	21.98	8.11	20.39	20.39	8.84	19.09	19.09	9.83
	19°C	24°C	24.61	15.02	6.41	23.75	14.67	6.90	22.90	14.31	7.47	22.02	13.95	8.11	20.25	13.03	8.83	18.74	12.31	9.81
		27°C	24.67	17.42	6.42	23.81	17.06	6.91	22.97	16.70	7.47	22.08	16.33	8.11	20.31	15.31	8.84	18.80	14.54	9.81
		30°C	24.79	21.64	6.42	23.97	21.18	6.92	23.16	20.73	7.48	22.33	20.24	8.13	20.61	18.92	8.86	19.20	17.83	9.84
		33°C	25.46	25.46	6.46	24.72	24.72	6.96	24.04	24.04	7.54	23.31	23.31	8.20	21.65	21.65	8.94	20.30	20.30	9.94
	22°C	27°C	27.04	14.73	6.53	26.11	14.39	7.04	25.20	14.06	7.61	24.24	13.71	8.26	22.32	12.82	8.99	20.69	12.13	9.97
		30°C	27.10	18.22	6.54	26.17	17.85	7.04	25.25	17.48	7.61	24.29	17.10	8.26	22.37	16.04	8.99	20.74	15.25	9.97
		33°C	27.16	21.47	6.54	26.23	21.09	7.05	25.30	20.71	7.62	24.37	20.30	8.27	22.46	19.08	9.00	20.87	18.13	9.98
		36°C	27.42	24.33	6.55	26.55	23.85	7.06	25.69	23.35	7.64	24.86	22.78	8.31	23.02	21.29	9.04	21.54	20.09	10.04

**Model: FDYMP75DXV1 - RCYP75EXY1****Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
<b>15°C</b>	14.883	14.883	16.845	16.845	17.499	17.499	24.694	24.694	28.618	28.618	30.580	30.580	32.542	32.542
<b>17°C</b>	14.493	14.493	16.552	16.552	17.155	17.155	24.664	24.664	28.467	28.467	30.463	30.463	32.460	32.460
<b>19°C</b>	14.103	14.103	16.259	16.259	16.810	16.810	24.635	24.635	28.317	28.317	30.347	30.347	32.378	32.378
<b>21°C</b>	13.713	13.713	15.913	15.913	16.466	16.466	24.443	24.443	28.166	28.166	30.231	30.231	32.295	32.295
<b>23°C</b>	13.323	13.323	15.512	15.512	16.121	16.121	24.088	24.088	28.015	28.015	30.114	30.114	32.213	32.213
<b>25°C</b>	12.933	12.933	15.111	15.111	15.777	15.777	23.734	23.734	27.865	27.865	29.998	29.998	32.131	32.131
<b>27°C</b>	12.542	12.542	14.710	14.710	15.432	15.432	23.379	23.379	27.714	27.714	29.882	29.882	32.049	32.049
<b>Frost Region</b>														

**Remark:**

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

**Notes:**

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

**Model: FDYMP100DXV1 - RCYP100EXY1**

**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
1700	16°C	21°C	27.63	19.28	8.78	26.65	18.78	9.49	25.66	18.27	10.28	24.63	17.75	11.14	22.62	16.52	12.09	20.88	15.54	13.33
		24°C	27.66	23.09	8.78	26.68	22.56	9.49	25.69	22.03	10.28	24.67	21.49	11.15	22.66	20.07	12.10	20.96	18.93	13.33
		27°C	27.88	26.18	8.79	26.95	25.58	9.51	26.01	24.98	10.30	25.03	24.34	11.17	23.09	22.65	12.13	21.49	21.27	13.38
		30°C	28.74	28.74	8.83	27.91	27.91	9.56	27.07	27.07	10.37	26.20	26.20	11.26	24.28	24.28	12.23	22.72	22.72	13.51
	19°C	24°C	30.47	18.00	8.91	29.40	17.54	9.65	28.33	17.08	10.46	27.20	16.60	11.34	25.00	15.46	12.30	23.11	14.56	13.56
		27°C	30.49	20.59	8.91	29.42	20.13	9.65	28.34	19.67	10.46	27.23	19.19	11.34	25.03	17.95	12.30	23.14	17.01	13.56
		30°C	30.54	25.41	8.92	29.49	24.87	9.66	28.44	24.32	10.46	27.37	23.74	11.35	25.20	22.20	12.32	23.38	21.01	13.58
		33°C	30.90	30.90	8.94	29.90	29.90	9.68	28.93	28.93	10.50	27.94	27.94	11.40	25.85	25.85	12.38	24.17	24.17	13.67
	22°C	27°C	33.52	17.62	9.08	32.36	17.19	9.83	31.19	16.76	10.66	29.97	16.30	11.56	27.56	15.19	12.54	25.51	14.32	13.82
		30°C	33.54	21.47	9.08	32.38	21.01	9.83	31.19	20.54	10.66	29.97	20.05	11.56	27.57	18.77	12.54	25.52	17.80	13.82
		33°C	33.55	25.08	9.08	32.39	24.60	9.83	31.21	24.11	10.66	29.99	23.61	11.57	27.60	22.17	12.55	25.58	21.06	13.83
		36°C	33.66	28.44	9.08	32.55	27.87	9.85	31.42	27.29	10.68	30.28	26.68	11.59	27.92	25.02	12.57	25.96	23.73	13.86
2100	16°C	21°C	28.75	20.12	8.85	27.71	19.60	9.58	26.66	19.08	10.37	25.57	18.54	11.24	23.47	17.26	12.19	21.65	16.25	13.44
		24°C	28.84	24.42	8.86	27.80	23.84	9.58	26.76	23.27	10.38	25.68	22.69	11.25	23.59	21.17	12.21	21.81	19.98	13.46
		27°C	29.18	27.73	8.88	28.20	27.09	9.61	27.23	26.39	10.41	26.25	25.60	11.30	24.24	23.78	12.26	22.58	22.25	13.53
		30°C	30.40	30.40	8.94	29.52	29.52	9.68	28.62	28.62	10.50	27.69	27.69	11.40	25.66	25.66	12.39	23.98	23.98	13.68
	19°C	24°C	31.67	19.03	9.00	30.55	18.55	9.74	29.40	18.07	10.55	28.22	17.57	11.44	25.91	16.37	12.41	23.94	15.43	13.68
		27°C	31.73	21.92	9.00	30.60	21.43	9.74	29.45	20.95	10.56	28.27	20.45	11.45	25.98	19.12	12.42	24.01	18.10	13.69
		30°C	31.88	27.04	9.01	30.77	26.46	9.76	29.67	25.86	10.57	28.54	25.23	11.47	26.27	23.59	12.44	24.38	22.29	13.72
		33°C	32.41	32.41	9.04	31.43	31.43	9.80	30.42	30.42	10.63	29.41	29.41	11.54	27.25	27.25	12.54	25.47	25.47	13.84
	22°C	27°C	34.80	18.63	9.17	33.58	18.20	9.93	32.33	17.73	10.76	31.04	17.26	11.67	28.53	16.09	12.66	26.39	15.19	13.94
		30°C	34.84	22.86	9.17	33.62	22.39	9.93	32.36	21.89	10.77	31.08	21.38	11.68	28.56	20.02	12.66	26.42	19.00	13.95
		33°C	34.91	26.79	9.17	33.69	26.28	9.94	32.46	25.74	10.77	31.18	25.20	11.69	28.68	23.63	12.68	26.59	22.44	13.97
		36°C	35.12	30.29	9.19	33.99	29.71	9.96	32.80	29.09	10.80	31.61	28.42	11.72	29.16	26.59	12.72	27.19	25.09	14.03
2600	16°C	21°C	29.82	20.99	8.93	28.73	20.46	9.65	27.62	19.92	10.45	26.48	19.37	11.33	24.28	18.04	12.29	22.39	16.97	13.55
		24°C	29.98	25.51	8.94	28.88	24.91	9.67	27.80	24.30	10.47	26.68	23.66	11.35	24.50	22.08	12.31	22.63	20.82	13.57
		27°C	30.46	29.24	8.96	29.46	28.48	9.70	28.47	27.68	10.51	27.45	26.83	11.41	25.36	24.85	12.39	23.63	23.20	13.67
		30°C	31.98	31.98	9.04	31.05	31.05	9.80	30.09	30.09	10.62	29.10	29.10	11.54	26.95	26.95	12.53	25.17	25.17	13.83
	19°C	24°C	32.82	20.14	9.08	31.63	19.64	9.82	30.43	19.14	10.64	29.19	18.62	11.54	26.79	17.36	12.51	24.73	16.37	13.78
		27°C	32.92	23.30	9.08	31.73	22.77	9.83	30.54	22.23	10.65	29.31	21.69	11.55	26.91	20.28	12.53	24.87	19.19	13.80
		30°C	33.19	28.67	9.10	32.01	28.05	9.85	30.87	27.41	10.68	29.68	26.72	11.58	27.33	24.95	12.56	25.37	23.52	13.85
		33°C	33.91	33.91	9.14	32.92	32.92	9.91	31.90	31.90	10.75	30.85	30.85	11.67	28.58	28.58	12.68	26.73	26.73	14.00
	22°C	27°C	36.01	19.70	9.25	34.73	19.27	10.02	33.43	18.78	10.85	32.08	18.29	11.77	29.47	17.07	12.76	27.24	16.12	14.05
		30°C	36.09	24.29	9.25	34.80	23.83	10.02	33.49	23.31	10.86	32.15	22.78	11.78	29.54	21.33	12.77	27.32	20.22	14.07
		33°C	36.21	28.46	9.26	34.96	27.97	10.03	33.68	27.38	10.88	32.35	26.77	11.80	29.76	25.09	12.79	27.57	23.82	14.09
		36°C	36.54	32.14	9.28	35.39	31.55	10.06	34.17	30.86	10.91	32.94	30.10	11.84	30.43	28.07	12.86	28.39	26.43	14.19
3000	16°C	21°C	29.81	21.18	9.01	28.76	20.67	9.70	27.72	20.16	10.50	26.62	19.63	11.40	24.46	18.29	12.43	22.59	17.23	13.81
		24°C	29.91	25.89	9.02	28.85	25.34	9.71	27.81	24.79	10.50	26.74	24.20	11.41	24.58	22.63	12.44	22.77	21.35	13.83
		27°C	30.41	29.69	9.04	29.48	28.95	9.74	28.53	28.19	10.55	27.58	27.35	11.47	25.55	25.55	12.51	23.87	23.87	13.92
		30°C	32.05	32.05	9.13	31.15	31.15	9.84	30.25	30.25	10.66	29.31	29.31	11.59	27.19	27.19	12.64	25.45	25.45	14.06
	19°C	24°C	32.81	20.31	9.17	31.67	19.82	9.87	30.54	19.35	10.67	29.36	18.85	11.59	27.01	17.61	12.62	24.99	16.65	14.02
		27°C	32.90	23.55	9.17	31.76	23.06	9.88	30.62	22.58	10.68	29.44	22.07	11.60	27.09	20.69	12.63	25.06	19.65	14.03
		30°C	33.06	29.26	9.18	31.96	28.64	9.89	30.88	28.03	10.70	29.77	27.36	11.62	27.48	25.57	12.66	25.61	24.10	14.07
		33°C	33.95	33.95	9.23	32.97	32.97	9.95	32.05	32.05	10.78	31.09	31.09	11.72	28.87	28.87	12.78	27.07	27.07	14.20
	22°C	27°C	36.06	19.92	9.34	34.82	19.46	10.06	33.60	19.01	10.88	32.33	18.54	11.81	29.76	17.32	12.85	27.59	16.39	14.25
		30°C	36.14	24.63	9.34	34.90	24.13	10.07	33.67	23.63	10.88	32.39	23.12	11.81	29.83	21.69	12.86	27.65	20.62	14.26
		33°C	36.22	29.02	9.35	34.98	28.51	10.07	33.74	28.00	10.89	32.49	27.45	11.82	29.95	25.80	12.87	27.83	24.51	14.27
		36°C	36.56	32.89	9.37	35.40	32.24	10.10	34.26	31.56	10.93	33.15	30.79	11.87	30.70	28.78	12.93	28.73	27.16	14.36

**Model: FDYMP100DXV1 - RCYP100EXY1****Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
<b>15°C</b>	19.490	19.490	22.059	22.059	22.916	22.916	32.336	32.336	37.475	37.475	40.044	40.044	42.614	42.614
<b>17°C</b>	18.979	18.979	22.147	22.147	22.316	22.316	32.298	32.298	36.496	36.496	38.999	38.999	41.501	41.501
<b>19°C</b>	18.468	18.468	22.235	22.235	21.716	21.716	32.259	32.259	35.518	35.518	37.953	37.953	40.389	40.389
<b>21°C</b>	17.957	17.957	21.752	21.752	21.116	21.116	31.529	31.529	34.539	34.539	36.908	36.908	39.277	39.277
<b>23°C</b>	17.446	17.446	20.699	20.699	20.516	20.516	30.108	30.108	33.560	33.560	35.863	35.863	38.165	38.165
<b>25°C</b>	16.935	16.935	19.646	19.646	19.916	19.916	28.687	28.687	32.582	32.582	34.817	34.817	37.052	37.052
<b>27°C</b>	16.424	16.424	18.593	18.593	19.316	19.316	27.266	27.266	31.603	31.603	33.772	33.772	35.940	35.940
<b>Frost Region</b>														

**Remark:**

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

**Notes:**

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Performance Data

**Model: FDYP125EXY1 - RCYP125EXY1**

**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
3375	16°C	21°C	31.28	23.45	9.53	30.29	22.93	10.19	29.23	22.38	10.95	28.10	21.80	11.81	25.29	19.90	12.78	23.49	18.83	14.07
		24°C	31.40	27.93	9.54	30.41	27.35	10.20	29.36	26.73	10.96	28.23	26.08	11.82	25.42	23.87	12.79	23.61	22.68	14.09
		27°C	31.51	31.51	9.55	30.55	30.55	10.21	29.53	29.53	10.97	28.48	28.48	11.85	25.78	25.78	12.83	24.19	24.19	14.16
		30°C	32.76	32.76	9.65	31.94	31.94	10.32	31.05	31.05	11.11	30.10	30.10	12.00	27.34	27.34	13.00	25.71	25.71	14.33
	19°C	24°C	34.36	22.15	9.77	33.30	21.67	10.44	32.15	21.16	11.21	30.94	20.62	12.08	27.87	18.85	13.06	25.91	17.89	14.36
		27°C	34.45	25.88	9.78	33.38	25.35	10.44	32.24	24.79	11.22	31.03	24.20	12.09	27.97	22.16	13.07	26.02	21.08	14.37
		30°C	34.58	31.58	9.79	33.49	31.01	10.46	32.34	30.40	11.23	31.12	29.77	12.10	28.07	27.37	13.08	26.13	26.13	14.38
		33°C	34.78	34.78	9.80	33.79	33.79	10.48	32.81	32.81	11.27	31.82	31.82	12.17	28.94	28.94	13.18	27.25	27.25	14.52
	22°C	27°C	37.70	20.81	10.04	36.51	20.35	10.72	35.27	19.88	11.50	33.96	19.38	12.38	30.63	17.73	13.36	28.52	16.85	14.68
		30°C	37.76	25.73	10.04	36.57	25.22	10.72	35.34	24.68	11.50	34.03	24.11	12.39	30.70	22.11	13.37	28.60	21.06	14.68
		33°C	37.86	29.98	10.05	36.68	29.44	10.73	35.44	28.88	11.51	34.13	28.30	12.40	30.80	26.03	13.38	28.70	24.90	14.70
		36°C	37.97	34.13	10.06	36.79	33.59	10.74	35.53	33.03	11.52	34.23	32.44	12.41	30.92	29.89	13.40	28.95	28.48	14.73
3750	16°C	21°C	31.94	24.39	9.58	30.91	23.87	10.24	29.81	23.30	11.00	28.64	22.67	11.86	25.78	20.67	12.83	23.93	19.54	14.12
		24°C	32.10	29.08	9.60	31.08	28.48	10.25	29.99	27.86	11.01	28.82	27.19	11.88	25.94	24.90	12.85	24.06	23.68	14.14
		27°C	32.32	32.32	9.61	31.37	31.37	10.28	30.38	30.38	11.05	29.40	29.40	11.93	26.67	26.67	12.93	25.01	25.01	14.25
		30°C	34.00	34.00	9.74	33.12	33.12	10.42	32.18	32.18	11.21	31.18	31.18	12.11	28.31	28.31	13.11	26.60	26.60	14.44
	19°C	24°C	35.06	23.02	9.83	33.95	22.54	10.49	32.76	22.02	11.26	31.50	21.48	12.14	28.37	19.65	13.11	26.38	18.67	14.41
		27°C	35.20	26.95	9.84	34.08	26.41	10.50	32.90	25.83	11.28	31.65	25.23	12.15	28.51	23.12	13.13	26.51	22.02	14.43
		30°C	35.36	33.06	9.85	34.23	32.47	10.52	33.03	31.86	11.29	31.79	31.22	12.17	28.66	28.66	13.14	26.73	26.73	14.46
		33°C	35.91	35.91	9.89	34.99	34.99	10.58	34.02	34.02	11.38	32.99	32.99	12.28	29.99	29.99	13.29	28.23	28.23	14.64
	22°C	27°C	38.43	21.62	10.10	37.20	21.16	10.78	35.91	20.68	11.56	34.56	20.18	12.44	31.15	18.48	13.42	29.00	17.59	14.73
		30°C	38.52	26.84	10.10	37.29	26.31	10.79	36.01	25.75	11.57	34.66	25.17	12.45	31.26	23.08	13.43	29.11	22.01	14.75
		33°C	38.67	31.39	10.12	37.44	30.85	10.80	36.15	30.28	11.58	34.80	29.68	12.47	31.38	27.32	13.45	29.23	26.16	14.76
		36°C	38.80	35.89	10.13	37.57	35.34	10.81	36.30	34.71	11.60	35.05	33.97	12.49	31.77	31.41	13.49	29.87	29.87	14.84
4125	16°C	21°C	32.50	25.06	9.63	31.44	24.48	10.28	30.31	23.86	11.04	29.12	23.20	11.91	26.19	21.15	12.88	24.30	19.99	14.17
		24°C	32.71	29.86	9.64	31.65	29.26	10.30	30.52	28.62	11.06	29.32	27.95	11.93	26.37	25.61	12.90	24.46	24.37	14.19
		27°C	33.17	33.17	9.68	32.24	32.24	10.35	31.30	31.30	11.13	30.28	30.28	12.02	27.45	27.45	13.01	25.73	25.73	14.34
		30°C	35.09	35.09	9.83	34.16	34.16	10.51	33.18	33.18	11.30	32.13	32.13	12.20	29.16	29.16	13.20	27.39	27.39	14.54
	19°C	24°C	35.65	24.10	9.87	34.50	23.60	10.54	33.28	23.08	11.31	31.98	22.51	12.18	28.79	20.57	13.16	26.75	19.49	14.46
		27°C	35.83	28.20	9.89	34.68	27.65	10.56	33.45	27.05	11.33	32.17	26.43	12.20	28.96	24.24	13.18	26.91	23.09	14.48
		30°C	36.02	34.76	9.90	34.84	34.15	10.57	33.64	33.51	11.35	32.39	32.39	12.22	29.26	29.26	13.21	27.40	27.40	14.54
		33°C	37.07	37.07	9.99	36.11	36.11	10.68	35.10	35.10	11.48	34.03	34.03	12.39	30.91	30.91	13.40	29.08	29.08	14.75
	22°C	27°C	39.04	22.61	10.15	37.78	22.15	10.83	36.45	21.66	11.61	35.06	21.17	12.49	31.60	19.42	13.47	29.40	18.47	14.78
		30°C	39.17	28.12	10.16	37.91	27.57	10.84	36.60	26.99	11.62	35.21	26.39	12.51	31.74	24.21	13.49	29.54	23.10	14.80
		33°C	39.36	33.02	10.17	38.09	32.46	10.86	36.76	31.87	11.64	35.37	31.26	12.52	31.87	28.79	13.51	29.67	27.59	14.82
		36°C	39.55	37.82	10.19	38.37	37.12	10.88	37.16	36.30	11.68	35.96	35.36	12.59	32.69	32.51	13.60	30.80	30.80	14.96

**Model: FDYP125EXY1 - RCYP125EXY1**

**Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	21.968	21.968	24.865	24.865	25.830	25.830	36.449	36.449	42.241	42.241	45.137	45.137	48.033	48.033
17°C	21.393	21.393	23.997	23.997	25.300	25.300	36.405	36.405	41.905	41.905	44.835	44.835	47.765	47.765
19°C	20.817	20.817	23.129	23.129	24.769	24.769	36.362	36.362	41.569	41.569	44.533	44.533	47.498	47.498
21°C	20.241	20.241	22.541	22.541	24.239	24.239	36.009	36.009	41.233	41.233	44.232	44.232	47.230	47.230
23°C	19.665	19.665	22.232	22.232	23.709	23.709	35.346	35.346	40.897	40.897	43.930	43.930	46.963	46.963
25°C	19.089	19.089	21.923	21.923	23.179	23.179	34.684	34.684	40.561	40.561	43.628	43.628	46.695	46.695
27°C	18.513	18.513	21.615	21.615	22.649	22.649	34.021	34.021	40.225	40.225	43.326	43.326	46.428	46.428

**Remark:**

- AFR: Air flow rate (CFM)
- EWB: Entering Wet Bulb Temp. (°C)
- EDB: Entering Dry Bulb Temp. (°C)
- TC: Total Cooling / Heating Capacity (kW)
- SC: Sensible Cooling / Heating Capacity (kW)
- PI: Power Input (kW)

**Notes:**

- 1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
- 2. ■ shows nominal capacities.
- 3. Direct interpolation is permissible. Do not extrapolate.
- 4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

## Model: FDYP150EXY1 - RCYP150EXY1

## Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
4050	16°C	21°C	42.00	30.02	11.96	40.67	29.36	12.78	39.25	28.66	13.73	37.74	27.91	14.82	33.96	25.48	16.03	31.54	24.10	17.65
		24°C	42.16	35.76	11.97	40.83	35.01	12.79	39.42	34.23	13.75	37.91	33.39	14.84	34.14	30.56	16.05	31.70	29.04	17.67
		27°C	42.32	41.16	11.98	41.03	40.39	12.81	39.65	39.56	13.77	38.24	38.24	14.86	34.62	34.62	16.10	32.49	32.49	17.76
		30°C	44.00	44.00	12.10	42.89	42.89	12.95	41.69	41.69	13.94	40.42	40.42	15.06	36.71	36.71	16.31	34.52	34.52	17.98
	19°C	24°C	46.14	28.36	12.26	44.71	27.74	13.09	43.17	27.09	14.06	41.54	26.40	15.16	37.42	24.13	16.38	34.79	22.90	18.01
		27°C	46.26	33.13	12.27	44.82	32.45	13.10	43.29	31.73	14.07	41.67	30.98	15.17	37.56	28.37	16.39	34.94	26.99	18.03
		30°C	46.44	40.43	12.28	44.98	39.69	13.12	43.43	38.92	14.09	41.79	38.11	15.19	37.69	35.04	16.41	35.08	33.50	18.05
		33°C	46.71	46.71	12.30	45.38	45.38	13.15	44.05	44.05	14.14	42.73	42.73	15.27	38.86	38.86	16.53	36.60	36.60	18.22
	22°C	27°C	50.63	26.64	12.59	49.03	26.06	13.45	47.36	25.45	14.43	45.61	24.81	15.53	41.14	22.70	16.77	38.30	21.57	18.41
		30°C	50.70	32.93	12.60	49.10	32.28	13.45	47.45	31.60	14.43	45.70	30.87	15.54	41.22	28.30	16.78	38.40	26.96	18.42
		33°C	50.84	38.38	12.61	49.25	37.69	13.46	47.59	36.98	14.45	45.84	36.23	15.56	41.35	33.32	16.79	38.53	31.88	18.44
		36°C	50.98	43.70	12.62	49.40	43.01	13.48	47.71	42.28	14.46	45.97	41.53	15.57	41.52	38.26	16.81	38.87	36.46	18.48
4500	16°C	21°C	42.88	31.23	12.02	41.51	30.56	12.84	40.03	29.83	13.80	38.46	29.02	14.89	34.62	26.47	16.10	32.13	25.01	17.72
		24°C	43.11	37.22	12.04	41.73	36.47	12.86	40.27	35.66	13.82	38.70	34.81	14.91	34.83	31.88	16.12	32.31	30.31	17.74
		27°C	43.40	43.15	12.06	42.12	42.12	12.89	40.80	40.80	13.86	39.48	39.48	14.97	35.81	35.81	16.22	33.59	33.59	17.88
		30°C	45.65	45.65	12.22	44.48	44.48	13.08	43.22	43.22	14.07	41.87	41.87	15.19	38.02	38.02	16.44	35.73	35.73	18.12
	19°C	24°C	47.08	29.48	12.33	45.59	28.86	13.16	43.99	28.19	14.13	42.30	27.50	15.23	38.09	25.16	16.45	35.42	23.90	18.08
		27°C	47.26	34.50	12.34	45.77	33.81	13.18	44.18	33.07	14.15	42.50	32.30	15.24	38.28	29.60	16.47	35.60	28.18	18.10
		30°C	47.48	42.32	12.36	45.96	41.57	13.20	44.36	40.79	14.17	42.69	39.97	15.26	38.48	36.74	16.49	35.89	34.94	18.14
		33°C	48.22	48.22	12.41	46.99	46.99	13.28	45.69	45.69	14.28	44.30	44.30	15.41	40.27	40.27	16.68	37.90	37.90	18.37
	22°C	27°C	51.60	27.67	12.67	49.95	27.08	13.52	48.23	26.48	14.50	46.40	25.84	15.61	41.83	23.66	16.84	38.94	22.52	18.48
		30°C	51.73	34.37	12.68	50.08	33.68	13.53	48.36	32.97	14.51	46.55	32.22	15.62	41.97	29.55	16.86	39.09	28.17	18.50
		33°C	51.93	40.19	12.69	50.28	39.49	13.55	48.55	38.76	14.53	46.73	38.00	15.64	42.14	34.97	16.88	39.25	33.49	18.52
		36°C	52.11	45.95	12.71	50.45	45.24	13.56	48.75	44.43	14.55	47.06	43.49	15.67	42.66	40.21	16.93	40.11	38.34	18.62
4950	16°C	21°C	43.64	32.08	12.08	42.21	31.33	12.90	40.70	30.54	13.86	39.11	29.70	14.94	35.17	27.08	16.15	32.63	25.60	17.78
		24°C	43.92	38.23	12.10	42.49	37.46	12.92	40.98	36.65	13.88	39.37	35.78	14.97	35.40	32.78	16.18	32.85	31.20	17.80
		27°C	44.54	44.54	12.14	43.30	43.30	12.98	42.02	42.02	13.96	40.66	40.66	15.08	36.85	36.85	16.32	34.55	34.55	17.99
		30°C	47.12	47.12	12.33	45.88	45.88	13.19	44.56	44.56	14.18	43.15	43.15	15.31	39.16	39.16	16.56	36.78	36.78	18.24
	19°C	24°C	47.87	30.85	12.39	46.33	30.22	13.22	44.68	29.54	14.19	42.95	28.82	15.29	38.67	26.34	16.51	35.92	24.96	18.14
		27°C	48.11	36.11	12.40	46.57	35.39	13.24	44.92	34.63	14.21	43.19	33.84	15.31	38.89	31.03	16.53	36.14	29.56	18.17
		30°C	48.36	44.49	12.42	46.78	43.72	13.27	45.18	42.90	14.24	43.49	41.97	15.34	39.30	38.38	16.58	36.79	36.24	18.24
		33°C	49.78	49.78	12.53	48.49	48.49	13.40	47.14	47.14	14.41	45.69	45.69	15.54	41.51	41.51	16.81	39.05	39.05	18.50
	22°C	27°C	52.42	28.95	12.73	50.73	28.35	13.58	48.94	27.73	14.56	47.08	27.10	15.67	42.43	24.86	16.90	39.48	23.65	18.55
		30°C	52.60	36.00	12.74	50.91	35.29	13.60	49.14	34.55	14.58	47.28	33.78	15.69	42.62	31.00	16.92	39.67	29.57	18.57
		33°C	52.85	42.28	12.76	51.14	41.56	13.62	49.36	40.81	14.60	47.49	40.02	15.71	42.80	36.86	16.95	39.85	35.32	18.59
		36°C	53.11	48.42	12.78	51.52	47.52	13.65	49.90	46.48	14.65	48.29	45.27	15.79	43.89	41.62	17.07	41.35	39.52	18.77

## Model: FDYP150EXY1 - RCYP150EXY1

## Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	26.575	26.575	30.078	30.078	31.246	31.246	44.092	44.092	51.098	51.098	54.601	54.601	58.105	58.105
17°C	25.878	25.878	29.692	29.692	30.701	30.701	44.039	44.039	51.198	51.198	54.815	54.815	58.432	58.432
19°C	25.182	25.182	29.306	29.306	30.156	30.156	43.986	43.986	51.298	51.298	55.029	55.029	58.760	58.760
21°C	24.485	24.485	28.751	28.751	29.611	29.611	43.869	43.869	51.398	51.398	55.242	55.242	59.087	59.087
23°C	23.788	23.788	28.028	28.028	29.066	29.066	43.688	43.688	51.497	51.497	55.456	55.456	59.414	59.414
25°C	23.092	23.092	27.304	27.304	28.521	28.521	43.506	43.506	51.597	51.597	55.669	55.669	59.742	59.742
27°C	22.395	22.395	26.581	26.581	27.976	27.976	43.325	43.325	51.697	51.697	55.883	55.883	60.069	60.069

Frost Region

## Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

## Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Performance Data

**Model: 2FDYP150EXY1 - RCYP75EXY1 x 2**  
**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
4050	16°C	21°C	42.28	29.03	12.19	40.95	28.39	13.02	39.52	27.71	14.00	37.99	26.99	15.10	34.19	24.64	16.34	31.76	23.31	17.99
		24°C	42.45	34.58	12.20	41.11	33.86	13.04	39.69	33.10	14.01	38.17	32.29	15.12	34.37	29.56	16.36	31.92	28.09	18.01
		27°C	42.61	39.80	12.21	41.31	39.06	13.05	39.92	38.26	14.03	38.50	37.27	15.15	34.85	33.94	16.41	32.71	31.88	18.10
		30°C	44.30	44.30	12.33	43.18	43.18	13.20	41.98	41.98	14.20	40.69	40.69	15.35	36.97	36.97	16.62	34.76	34.76	18.33
	19°C	24°C	46.46	27.43	12.49	45.01	26.83	13.35	43.47	26.20	14.33	41.83	25.53	15.45	37.68	23.34	16.69	35.03	22.14	18.36
		27°C	46.58	32.04	12.50	45.13	31.38	13.35	43.59	30.69	14.34	41.95	29.96	15.46	37.81	27.44	16.71	35.18	26.10	18.37
		30°C	46.76	39.10	12.52	45.28	38.39	13.37	43.73	37.64	14.36	42.08	36.86	15.48	37.94	33.89	16.73	35.32	32.40	18.39
		33°C	47.03	47.03	12.53	45.69	45.69	13.40	44.35	44.35	14.41	43.02	43.02	15.56	39.12	39.12	16.85	36.85	36.85	18.57
	22°C	27°C	50.97	25.77	12.83	49.36	25.20	13.70	47.69	24.61	14.70	45.92	24.00	15.83	41.42	21.96	17.09	38.56	20.86	18.77
		30°C	51.04	31.85	12.84	49.44	31.22	13.71	47.77	30.56	14.71	46.01	29.85	15.84	41.50	27.37	17.10	38.66	26.07	18.77
		33°C	51.19	37.11	12.85	49.59	36.45	13.72	47.91	35.76	14.72	46.15	35.04	15.85	41.64	32.23	17.11	38.80	30.83	18.79
		36°C	51.33	42.26	12.86	49.73	41.59	13.73	48.04	40.89	14.74	46.28	40.17	15.87	41.80	37.00	17.13	39.14	35.26	18.83
4500	16°C	21°C	43.18	30.20	12.25	41.79	29.56	13.09	40.30	28.85	14.06	38.73	28.06	15.17	34.85	25.60	16.41	32.35	24.19	18.06
		24°C	43.40	36.00	12.27	42.02	35.27	13.11	40.54	34.49	14.08	38.96	33.66	15.19	35.07	30.83	16.43	32.53	29.31	18.08
		27°C	43.70	41.73	12.29	42.41	40.84	13.14	41.08	39.78	14.13	39.75	38.54	15.26	36.05	35.12	16.53	33.82	33.05	18.22
		30°C	45.97	45.97	12.46	44.78	44.78	13.33	43.51	43.51	14.34	42.16	42.16	15.48	38.28	38.28	16.76	35.97	35.97	18.47
	19°C	24°C	47.40	28.51	12.56	45.91	27.91	13.42	44.29	27.27	14.40	42.59	26.59	15.52	38.35	24.33	16.77	35.66	23.11	18.43
		27°C	47.58	33.37	12.58	46.08	32.70	13.43	44.48	31.98	14.42	42.79	31.24	15.54	38.54	28.62	16.79	35.84	27.26	18.45
		30°C	47.80	40.93	12.59	46.27	40.20	13.45	44.66	39.44	14.44	42.98	38.66	15.56	38.74	35.53	16.81	36.13	33.79	18.49
		33°C	48.55	48.55	12.65	47.31	47.31	13.53	46.00	46.00	14.55	44.61	44.61	15.71	40.54	40.54	17.00	38.16	38.16	18.72
	22°C	27°C	51.96	26.76	12.91	50.29	26.19	13.78	48.56	25.60	14.78	46.72	24.99	15.91	42.12	22.89	17.16	39.21	21.78	18.84
		30°C	52.08	33.24	12.92	50.42	32.57	13.79	48.69	31.88	14.79	46.86	31.16	15.92	42.26	28.58	17.18	39.36	27.24	18.85
		33°C	52.28	38.87	12.94	50.62	38.19	13.81	48.88	37.49	14.81	47.04	36.75	15.94	42.43	33.82	17.20	39.52	32.39	18.88
		36°C	52.46	44.44	12.95	50.80	43.75	13.82	49.08	42.97	14.83	47.38	42.06	15.97	42.95	38.88	17.26	40.38	37.07	18.98
4950	16°C	21°C	43.94	31.02	12.31	42.50	30.30	13.15	40.98	29.54	14.12	39.38	28.73	15.23	35.41	26.19	16.46	32.85	24.76	18.12
		24°C	44.22	36.97	12.33	42.78	36.22	13.17	41.26	35.44	14.14	39.64	34.61	15.25	35.65	31.70	16.49	33.08	30.18	18.14
		27°C	44.84	43.09	12.37	43.59	42.38	13.23	42.31	41.55	14.23	40.94	40.61	15.37	37.11	36.92	16.64	34.79	34.79	18.33
		30°C	47.44	47.44	12.57	46.19	46.19	13.44	44.86	44.86	14.45	43.45	43.45	15.60	39.43	39.43	16.88	37.03	37.03	18.59
	19°C	24°C	48.20	29.83	12.62	46.64	29.22	13.48	44.99	28.57	14.46	43.24	27.88	15.58	38.93	25.47	16.82	36.17	24.14	18.49
		27°C	48.44	34.92	12.64	46.89	34.23	13.50	45.23	33.49	14.48	43.49	32.73	15.60	39.15	30.01	16.85	36.39	28.59	18.51
		30°C	48.69	43.03	12.66	47.10	42.28	13.52	45.49	41.49	14.51	43.79	40.59	15.63	39.56	37.11	16.89	37.04	35.05	18.59
		33°C	50.12	50.12	12.77	48.82	48.82	13.66	47.46	47.46	14.68	46.00	46.00	15.84	41.79	41.79	17.13	39.31	39.31	18.85
	22°C	27°C	52.78	27.99	12.97	51.07	27.42	13.84	49.28	26.82	14.84	47.40	26.21	15.97	42.72	24.04	17.23	39.74	22.87	18.90
		30°C	52.96	34.82	12.99	51.26	34.13	13.86	49.48	33.42	14.86	47.61	32.67	15.99	42.91	29.98	17.25	39.94	28.60	18.92
		33°C	53.21	40.89	13.01	51.49	40.19	13.88	49.70	39.46	14.88	47.81	38.71	16.02	43.09	35.64	17.27	40.12	34.16	18.95
		36°C	53.47	46.83	13.03	51.87	45.96	13.91	50.24	44.95	14.93	48.61	43.78	16.09	44.19	40.25	17.39	41.64	38.22	19.13

**Model: 2FDYP150EXY1 - RCYP75EXY1 x 2**  
**Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	28.703	28.703	32.487	32.487	33.748	33.748	47.622	47.622	55.190	55.190	58.974	58.974	62.757	62.757
17°C	27.950	27.950	32.382	32.382	33.140	33.140	47.565	47.565	55.196	55.196	59.089	59.089	62.981	62.981
19°C	27.198	27.198	32.278	32.278	32.532	32.532	47.508	47.508	55.203	55.203	59.204	59.204	63.204	63.204
21°C	26.446	26.446	31.711	31.711	31.924	31.924	47.320	47.320	55.209	55.209	59.319	59.319	63.428	63.428
23°C	25.693	25.693	30.682	30.682	31.317	31.317	47.000	47.000	55.216	55.216	59.434	59.434	63.651	63.651
25°C	24.941	24.941	29.652	29.652	30.709	30.709	46.680	46.680	55.223	55.223	59.549	59.549	63.875	63.875
27°C	24.188	24.188	28.623	28.623	30.101	30.101	46.360	46.360	55.229	55.229	59.664	59.664	64.098	64.098

Frost Region

**Remark:**

- AFR: Air flow rate (CFM)
- EWB: Entering Wet Bulb Temp. (°C)
- EDB: Entering Dry Bulb Temp. (°C)
- TC: Total Cooling / Heating Capacity (kW)
- SC: Sensible Cooling / Heating Capacity (kW)
- PI: Power Input (kW)

**Notes:**

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

**Model: 2FDYP200EXY1 - RCYP100EXY1 x 2**

**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
5760	16°C	21°C	52.71	36.68	18.18	51.04	35.87	19.43	49.27	35.02	20.88	47.36	34.11	22.53	42.62	31.14	24.38	39.59	29.46	26.84
		24°C	52.92	43.70	18.20	51.25	42.79	19.45	49.47	41.83	20.90	47.58	40.81	22.56	42.85	37.35	24.40	39.79	35.49	26.87
		27°C	53.11	50.30	18.22	51.49	49.36	19.47	49.76	48.34	20.93	47.99	47.09	22.60	43.44	42.89	24.48	40.77	40.28	27.00
		30°C	55.22	55.22	18.40	53.83	53.83	19.69	52.33	52.33	21.19	50.72	50.72	22.89	46.08	46.08	24.80	43.33	43.33	27.34
	19°C	24°C	57.91	34.66	18.64	56.11	33.90	19.91	54.18	33.10	21.38	52.14	32.26	23.04	46.97	29.49	24.91	43.67	27.98	27.39
		27°C	58.06	40.48	18.65	56.25	39.66	19.92	54.33	38.78	21.39	52.30	37.85	23.06	47.14	34.67	24.93	43.86	32.98	27.41
		30°C	58.28	49.40	18.67	56.45	48.51	19.95	54.51	47.57	21.42	52.45	46.58	23.09	47.30	42.82	24.95	44.03	40.94	27.44
		33°C	58.62	58.62	18.70	56.95	56.95	19.99	55.29	55.29	21.50	53.63	53.63	23.21	48.77	48.77	25.14	45.93	45.93	27.70
	22°C	27°C	63.54	32.56	19.14	61.53	31.84	20.44	59.44	31.10	21.93	57.24	30.32	23.62	51.63	27.74	25.49	48.07	26.35	27.99
		30°C	63.63	40.25	19.15	61.63	39.45	20.45	59.55	38.62	21.94	57.35	37.72	23.63	51.73	34.58	25.51	48.19	32.95	28.01
		33°C	63.81	46.90	19.17	61.81	46.06	20.47	59.73	45.19	21.96	57.53	44.28	23.65	51.90	40.72	25.53	48.36	38.96	28.04
		36°C	63.99	53.40	19.19	62.00	52.56	20.49	59.88	51.67	21.98	57.69	50.75	23.67	52.10	46.76	25.56	48.78	44.56	28.10
6400	16°C	21°C	53.82	38.16	18.28	52.10	37.35	19.53	50.24	36.45	20.98	48.28	35.46	22.63	43.45	32.34	24.48	40.32	30.57	26.94
		24°C	54.10	45.49	18.30	52.38	44.56	19.56	50.54	43.58	21.01	48.57	42.54	22.66	43.71	38.96	24.51	40.56	37.04	26.97
		27°C	54.48	52.74	18.33	52.86	51.60	19.60	51.21	50.26	21.08	49.55	48.70	22.77	44.94	44.38	24.66	42.16	41.76	27.19
		30°C	57.30	57.30	18.58	55.83	55.83	19.88	54.24	54.24	21.39	52.55	52.55	23.09	47.71	47.71	25.00	44.84	44.84	27.55
	19°C	24°C	59.09	36.02	18.74	57.22	35.26	20.01	55.21	34.45	21.49	53.09	33.60	23.15	47.81	30.75	25.01	44.45	29.20	27.49
		27°C	59.32	42.16	18.76	57.44	41.32	20.04	55.45	40.42	21.51	53.34	39.47	23.18	48.05	36.17	25.04	44.68	34.44	27.52
		30°C	59.59	51.72	18.79	57.68	50.80	20.07	55.67	49.84	21.54	53.57	48.85	23.21	48.30	44.90	25.07	45.04	42.70	27.58
		33°C	60.52	60.52	18.87	58.97	58.97	20.19	57.34	57.34	21.71	55.61	55.61	23.43	50.54	50.54	25.36	47.57	47.57	27.93
	22°C	27°C	64.76	33.82	19.26	62.69	33.10	20.56	60.53	32.35	22.05	58.24	31.57	23.73	52.50	28.92	25.61	48.87	27.52	28.10
		30°C	64.92	42.00	19.27	62.85	41.16	20.57	60.70	40.29	22.07	58.42	39.38	23.75	52.68	36.12	25.63	49.06	34.43	28.13
		33°C	65.17	49.12	19.30	63.11	48.26	20.60	60.93	47.37	22.12	59.07	46.43	23.78	52.89	42.74	25.66	49.26	40.93	28.16
		36°C	65.40	56.15	19.32	63.32	55.29	20.62	61.18	54.30	22.12	59.07	53.15	23.83	53.54	49.13	25.74	50.34	46.85	28.32
7040	16°C	21°C	54.77	39.20	18.36	52.98	38.29	19.61	51.08	37.32	21.07	49.08	36.30	22.72	44.15	33.10	24.56	40.95	31.28	27.03
		24°C	55.13	46.71	18.39	53.33	45.77	19.65	51.44	44.78	21.10	49.42	43.73	22.75	44.43	40.06	24.60	41.23	38.13	27.06
		27°C	55.90	54.45	18.46	54.34	53.55	19.74	52.74	52.51	21.23	51.03	51.03	22.93	46.25	46.25	24.82	43.37	43.37	27.35
		30°C	59.14	59.14	18.75	57.58	57.58	20.05	55.92	55.92	21.56	54.16	54.16	23.27	49.15	49.15	25.18	46.16	46.16	27.73
	19°C	24°C	60.08	37.70	18.83	58.14	36.92	20.11	56.08	36.10	21.58	53.90	35.22	23.24	48.53	32.19	25.10	45.09	30.50	27.58
		27°C	60.38	44.13	18.86	58.45	43.25	20.14	56.38	42.32	21.61	54.21	41.35	23.28	48.81	37.92	25.14	45.36	36.13	27.62
		30°C	60.70	54.37	18.89	58.72	53.43	20.17	56.70	52.42	21.64	54.58	51.29	23.32	49.32	46.90	25.20	46.17	44.28	27.73
		33°C	62.48	62.48	19.05	60.86	60.86	20.38	59.16	59.16	21.90	57.34	57.34	23.63	52.10	52.10	25.56	49.01	49.01	28.13
	22°C	27°C	65.79	35.37	19.35	63.67	34.65	20.65	61.43	33.89	22.14	59.09	33.12	23.83	53.25	30.38	25.70	49.54	28.90	28.20
		30°C	66.01	43.99	19.38	63.89	43.13	20.68	61.68	42.23	22.17	59.34	41.28	23.86	53.49	37.88	25.73	49.79	36.14	28.23
		33°C	66.33	51.67	19.40	64.19	50.78	20.71	61.95	49.87	22.20	59.60	48.91	23.89	53.72	45.04	25.77	50.01	43.17	28.27
		36°C	66.66	59.17	19.44	64.66	58.08	20.75	62.63	56.80	22.28	60.60	55.32	24.01	55.09	50.86	25.95	51.90	48.30	28.54

**Model: 2FDYP200EXY1 - RCYP100EXY1 x 2**

**Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	38.623	38.623	43.715	43.715	45.412	45.412	64.081	64.081	74.264	74.264	79.356	79.356	84.448	84.448
17°C	37.611	37.611	44.052	44.052	44.239	44.239	64.005	64.005	72.410	72.410	77.381	77.381	82.353	82.353
19°C	36.598	36.598	44.389	44.389	43.066	43.066	63.928	63.928	70.556	70.556	75.407	75.407	80.258	80.258
21°C	35.586	35.586	43.466	43.466	41.893	41.893	62.534	62.534	68.702	68.702	73.432	73.432	78.163	78.163
23°C	34.573	34.573	41.283	41.283	40.721	40.721	59.822	59.822	66.847	66.847	71.458	71.458	76.069	76.069
25°C	33.561	33.561	39.101	39.101	39.548	39.548	57.110	57.110	64.993	64.993	69.483	69.483	73.974	73.974
27°C	32.548	32.548	36.918	36.918	38.375	38.375	54.399	54.399	63.139	63.139	67.509	67.509	71.879	71.879
Frost Region														

**Remark:**

- AFR: Air flow rate (CFM)
- EWB: Entering Wet Bulb Temp. (°C)
- EDB: Entering Dry Bulb Temp. (°C)
- TC: Total Cooling / Heating Capacity (kW)
- SC: Sensible Cooling / Heating Capacity (kW)
- PI: Power Input (kW)

**Notes:**

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

**Model: 2FGYP250EXY1 - RCYP125EXY1 x 2**

**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
7200	16°C	21°C	62.56	45.31	19.88	60.58	44.31	21.24	58.47	43.25	22.83	56.21	42.12	24.63	50.58	38.46	26.65	46.99	36.38	29.35
		24°C	62.81	53.96	19.90	60.82	52.84	21.27	58.72	51.66	22.85	56.48	50.40	24.66	50.85	46.13	26.68	47.23	43.83	29.38
		27°C	63.04	62.12	19.92	61.11	60.96	21.29	59.06	59.06	22.88	56.97	56.97	24.71	51.57	51.57	26.76	48.39	48.39	29.52
		30°C	65.54	65.54	20.12	63.89	63.89	21.53	62.11	62.11	23.17	60.21	60.21	25.03	54.69	54.69	27.11	51.43	51.43	29.90
	19°C	24°C	68.74	42.80	20.38	66.60	41.87	21.77	64.31	40.88	23.37	61.88	39.84	25.19	55.75	36.42	27.23	51.83	34.56	29.94
		27°C	68.91	50.00	20.39	66.77	48.98	21.78	64.49	47.89	23.39	62.07	46.75	25.21	55.95	42.82	27.25	52.05	40.73	29.97
		30°C	69.18	61.02	20.41	67.00	59.91	21.81	64.70	58.75	23.42	62.26	57.52	25.24	56.14	52.88	27.28	52.26	50.56	30.00
		33°C	69.58	69.58	20.44	67.60	67.60	21.86	65.62	65.62	23.50	63.65	63.65	25.38	57.89	57.89	27.48	54.51	54.51	30.29
	22°C	27°C	75.42	40.21	20.93	73.03	39.32	22.35	70.55	38.41	23.98	67.94	37.45	25.82	61.28	34.26	27.87	57.05	32.55	30.61
		30°C	75.52	49.71	20.94	73.15	48.72	22.36	70.68	47.69	23.99	68.07	46.59	25.83	61.40	42.71	27.89	57.20	40.69	30.62
		33°C	75.73	57.92	20.96	73.37	56.89	22.38	70.89	55.81	24.01	68.28	54.68	25.86	61.60	50.29	27.91	57.40	48.12	30.65
		36°C	75.95	65.95	20.98	73.58	64.91	22.40	71.07	63.81	24.04	68.48	62.68	25.88	61.84	57.74	27.94	57.90	55.03	30.72
8000	16°C	21°C	63.88	47.13	19.98	61.83	46.12	21.35	59.63	45.02	22.94	57.30	43.80	24.74	51.57	39.94	26.76	47.86	37.75	29.45
		24°C	64.21	56.18	20.01	62.17	55.04	21.38	59.98	53.82	22.97	57.65	52.54	24.78	51.88	48.11	26.80	48.14	45.75	29.49
		27°C	64.66	64.66	20.05	62.74	62.74	21.43	60.78	60.78	23.04	58.82	58.82	24.89	53.34	53.34	26.96	50.04	50.04	29.72
		30°C	68.01	68.01	20.32	66.26	66.26	21.74	64.38	64.38	23.38	62.38	62.38	25.25	56.63	56.63	27.34	53.22	53.22	30.12
	19°C	24°C	70.14	44.49	20.49	67.92	43.55	21.88	65.53	42.55	23.49	63.02	41.50	25.31	56.74	37.97	27.35	52.76	36.06	30.06
		27°C	70.40	52.07	20.51	68.18	51.03	21.91	65.81	49.92	23.52	63.31	48.75	25.34	57.03	44.67	27.38	53.03	42.54	30.09
		30°C	70.72	63.87	20.54	68.46	62.74	21.94	66.07	61.56	23.55	63.59	60.33	25.37	57.32	55.45	27.41	53.46	52.74	30.15
		33°C	71.83	71.83	20.63	70.00	70.00	22.07	68.06	68.06	23.74	66.00	66.00	25.62	59.99	59.99	27.73	56.46	56.46	30.53
	22°C	27°C	76.87	41.76	21.05	74.41	40.88	22.48	71.84	39.96	24.11	69.13	38.99	25.95	62.32	35.72	28.00	58.01	33.98	30.73
		30°C	77.05	51.87	21.07	74.60	50.83	22.49	72.04	49.76	24.12	69.34	48.63	25.97	62.52	44.60	28.02	58.23	42.52	30.75
		33°C	77.35	60.66	21.10	74.90	59.61	22.52	72.32	58.50	24.16	69.60	57.35	26.00	62.77	52.78	28.05	58.47	50.55	30.79
		36°C	77.62	69.35	21.12	75.16	68.28	22.55	72.62	67.06	24.19	70.11	65.64	26.05	63.55	60.68	28.15	59.75	57.86	30.96
8800	16°C	21°C	65.01	48.41	20.07	62.88	47.29	21.44	60.63	46.10	23.03	58.26	44.83	24.84	52.40	40.87	26.85	48.60	38.63	29.55
		24°C	65.43	57.69	20.11	63.30	56.53	21.48	61.05	55.31	23.07	58.65	54.01	24.88	52.74	49.48	26.90	48.94	47.10	29.59
		27°C	66.35	66.35	20.18	64.50	64.50	21.58	62.60	62.60	23.21	60.57	60.57	25.07	54.90	54.90	27.14	51.47	51.47	29.90
		30°C	70.20	70.20	20.50	68.34	68.34	21.92	66.38	66.38	23.57	64.28	64.28	25.44	58.33	58.33	27.53	54.79	54.79	30.32
	19°C	24°C	71.31	46.56	20.59	69.01	45.60	21.98	66.56	44.59	23.59	63.97	43.50	25.41	57.60	39.75	27.44	53.52	37.67	30.15
		27°C	71.67	54.50	20.62	69.38	53.42	22.02	66.92	52.27	23.63	64.34	51.07	25.45	57.93	46.83	27.48	53.83	44.62	30.20
		30°C	72.04	67.15	20.65	69.69	65.98	22.05	67.30	64.74	23.66	64.78	63.35	25.49	58.54	57.92	27.56	54.80	54.69	30.32
		33°C	74.16	74.16	20.83	72.24	72.24	22.28	70.22	70.22	23.95	68.06	68.06	25.83	61.83	61.83	27.94	58.17	58.17	30.75
	22°C	27°C	78.09	43.69	21.16	75.56	42.79	22.58	72.91	41.86	24.21	70.14	40.91	26.05	63.21	37.51	28.10	58.80	35.70	30.83
		30°C	78.35	54.33	21.18	75.83	53.26	22.61	73.20	52.15	24.24	70.44	50.99	26.08	63.49	46.79	28.13	59.10	44.63	30.87
		33°C	78.73	63.81	21.22	76.19	62.72	22.64	73.53	61.59	24.28	70.74	60.41	26.12	63.76	55.62	28.17	59.36	53.31	30.91
		36°C	79.12	73.08	21.25	76.75	71.72	22.69	74.33	70.15	24.36	71.93	68.32	26.25	65.39	62.82	28.37	61.60	59.65	31.20

**Model: 2FGYP250EXY1 - RCYP125EXY1 x 2**

**Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	43.937	43.937	49.729	49.729	51.660	51.660	72.897	72.897	84.482	84.482	90.274	90.274	96.066	96.066
17°C	42.785	42.785	46.745	46.745	50.657	50.657	72.810	72.810	84.112	84.112	90.016	90.016	95.920	95.920
19°C	41.633	41.633	43.762	43.762	49.654	49.654	72.723	72.723	83.742	83.742	89.758	89.758	95.774	95.774
21°C	40.482	40.482	42.444	42.444	48.651	48.651	72.203	72.203	83.373	83.373	89.500	89.500	95.627	95.627
23°C	39.330	39.330	42.792	42.792	47.648	47.648	71.248	71.248	83.003	83.003	89.242	89.242	95.481	95.481
25°C	38.178	38.178	43.140	43.140	46.646	46.646	70.293	70.293	82.634	82.634	88.984	88.984	95.335	95.335
27°C	37.026	37.026	43.489	43.489	45.643	45.643	69.339	69.339	82.264	82.264	88.726	88.726	95.189	95.189
Frost Region														

**Remark:**

AFR: Air flow rate (CFM)  
 EWB: Entering Wet Bulb Temp. (°C)  
 EDB: Entering Dry Bulb Temp. (°C)  
 TC: Total Cooling / Heating Capacity (kW)  
 SC: Sensible Cooling / Heating Capacity (kW)  
 PI: Power Input (kW)

**Notes:**

- Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
- shows nominal capacities.
- Direct interpolation is permissible. Do not extrapolate.
- Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

**Model: 2FGYP300EXY1 - RCYP150EXY1 x 2**  
**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8100	16°C	21°C	83.99	59.24	24.50	81.33	57.93	26.18	78.50	56.55	28.13	75.46	55.08	30.36	67.91	50.28	32.85	63.08	47.57	36.17
		24°C	84.31	70.56	24.52	81.65	69.09	26.21	78.83	67.54	28.16	75.82	65.90	30.39	68.27	60.31	32.88	63.40	57.31	36.21
		27°C	84.62	81.22	24.55	82.04	79.71	26.24	79.29	78.07	28.20	76.47	76.05	30.45	69.22	69.22	32.98	64.97	64.97	36.38
		30°C	87.98	87.98	24.79	85.76	85.76	26.53	83.38	83.38	28.55	80.82	80.82	30.85	73.42	73.42	33.42	69.04	69.04	36.84
	19°C	24°C	92.28	55.96	25.11	89.41	54.75	26.82	86.33	53.46	28.80	83.08	52.09	31.05	74.84	47.62	33.56	69.58	45.19	36.90
		27°C	92.51	65.38	25.13	89.63	64.04	26.84	86.57	62.62	28.83	83.33	61.13	31.07	75.11	55.99	33.59	69.88	53.26	36.93
		30°C	92.87	79.78	25.16	89.94	78.34	26.87	86.85	76.82	28.86	83.58	75.22	31.11	75.36	69.15	33.62	70.16	66.11	36.97
		33°C	93.41	93.41	25.19	90.74	90.74	26.94	88.10	88.10	28.96	85.45	85.45	31.28	77.71	77.71	33.87	73.18	73.18	37.32
	22°C	27°C	101.24	52.58	25.80	98.04	51.42	27.54	94.71	50.22	29.55	91.21	48.97	31.82	82.26	44.80	34.35	76.59	42.56	37.72
		30°C	101.38	64.99	25.81	98.19	63.71	27.56	94.89	62.36	29.56	91.38	60.92	31.84	82.43	55.85	34.37	76.79	53.20	37.74
		33°C	101.67	75.74	25.83	98.49	74.38	27.58	95.17	72.98	29.59	91.66	71.50	31.87	82.70	65.76	34.40	77.06	62.92	37.77
		36°C	101.96	86.24	25.85	98.78	84.88	27.61	95.41	83.44	29.62	91.93	81.96	31.89	83.02	75.50	34.43	77.73	71.96	37.85
9000	16°C	21°C	85.76	61.62	24.63	83.01	60.31	26.31	80.05	58.87	28.27	76.92	57.27	30.49	69.23	52.23	32.98	64.25	49.37	36.30
		24°C	86.20	73.46	24.66	83.45	71.97	26.35	80.52	70.38	28.31	77.39	68.69	30.53	69.65	62.91	33.02	64.62	59.82	36.34
		27°C	86.80	85.16	24.70	84.23	83.34	26.41	81.59	81.17	28.40	78.96	78.64	30.68	71.60	71.60	33.23	67.17	67.17	36.63
		30°C	91.30	91.30	25.04	88.95	88.95	26.79	86.43	86.43	28.81	83.74	83.74	31.11	76.03	76.03	33.69	71.44	71.44	37.12
	19°C	24°C	94.16	58.17	25.25	91.18	56.95	26.97	87.98	55.64	28.95	84.59	54.27	31.19	76.18	49.65	33.70	70.83	47.16	37.04
		27°C	94.51	68.09	25.28	91.53	66.72	27.00	88.35	65.27	28.98	84.99	63.74	31.23	76.56	58.41	33.74	71.19	55.62	37.08
		30°C	94.94	83.52	25.32	91.91	82.04	27.04	88.70	80.49	29.02	85.36	78.88	31.27	76.95	72.50	33.78	71.77	68.96	37.16
		33°C	96.43	96.43	25.42	93.96	93.96	27.20	91.36	91.36	29.25	88.60	88.60	31.57	80.53	80.53	34.17	75.80	75.80	37.63
	22°C	27°C	103.19	54.61	25.95	99.89	53.45	27.70	96.44	52.25	29.71	92.80	50.99	31.97	83.66	46.70	34.50	77.87	44.44	37.86
		30°C	103.44	67.82	25.97	100.15	66.47	27.72	96.71	65.07	29.73	93.08	63.59	32.00	83.94	58.32	34.53	78.17	55.60	37.90
		33°C	103.84	79.32	26.00	100.55	77.94	27.76	97.08	76.49	29.77	93.44	74.98	32.04	84.27	69.02	34.57	78.49	66.10	37.94
		36°C	104.20	90.68	26.03	100.89	89.28	27.79	97.49	87.69	29.81	94.11	85.83	32.10	85.31	79.35	34.68	80.21	75.65	38.15
9900	16°C	21°C	87.27	63.30	24.74	84.42	61.84	26.43	81.39	60.27	28.38	78.21	58.62	30.61	70.34	53.45	33.09	65.25	50.52	36.42
		24°C	87.84	75.44	24.78	84.98	73.92	26.47	81.96	72.32	28.43	78.74	70.62	30.66	70.80	64.69	33.15	65.70	61.58	36.46
		27°C	89.06	87.92	24.87	86.59	86.48	26.60	84.04	84.04	28.61	81.31	81.31	30.89	73.70	73.70	33.44	69.10	69.10	36.85
		30°C	94.23	94.23	25.26	91.74	91.74	27.02	89.11	89.11	29.05	86.29	86.29	31.35	78.31	78.31	33.93	73.55	73.55	37.36
	19°C	24°C	95.73	60.88	25.37	92.64	59.63	27.09	89.35	58.30	29.07	85.88	56.88	31.32	77.32	51.98	33.82	71.84	49.25	37.16
		27°C	96.21	71.26	25.41	93.13	69.85	27.13	89.83	68.35	29.12	86.38	66.78	31.36	77.77	61.23	33.87	72.27	58.34	37.21
		30°C	96.72	87.81	25.45	93.56	86.28	27.17	90.34	84.66	29.16	86.97	82.83	31.42	78.58	75.74	33.96	73.57	71.51	37.37
		33°C	99.55	99.55	25.67	96.98	96.98	27.45	94.26	94.26	29.51	91.37	91.37	31.84	83.01	83.01	34.44	78.09	78.09	37.90
	22°C	27°C	104.83	57.12	26.08	101.44	55.95	27.83	97.88	54.73	29.84	94.15	53.49	32.10	84.85	49.05	34.63	78.94	46.68	37.99
		30°C	105.18	71.04	26.11	101.80	69.65	27.86	98.27	68.19	29.87	94.56	66.67	32.14	85.23	61.18	34.67	79.33	58.36	38.04
		33°C	105.69	83.43	26.15	102.27	82.01	27.90	98.71	80.53	29.92	94.97	78.98	32.19	85.59	72.73	34.72	79.68	69.71	38.09
		36°C	106.21	95.55	26.19	103.03	93.79	27.96	99.79	91.72	30.02	96.56	89.33	32.35	87.78	82.14	34.96	82.70	78.00	38.45

**Model: 2FGYP300EXY1 - RCYP150EXY1 x 2**  
**Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	53.150	53.150	60.157	60.157	62.492	62.492	88.183	88.183	102.196	102.196	109.203	109.203	116.210	116.210
17°C	51.757	51.757	60.311	60.311	61.284	61.284	88.078	88.078	101.776	101.776	108.922	108.922	116.067	116.067
19°C	50.363	50.363	60.465	60.465	60.076	60.076	87.973	87.973	101.356	101.356	108.640	108.640	115.925	115.925
21°C	48.970	48.970	59.412	59.412	58.868	58.868	87.359	87.359	100.935	100.935	108.359	108.359	115.782	115.782
23°C	47.577	47.577	57.151	57.151	57.660	57.660	86.237	86.237	100.515	100.515	108.077	108.077	115.640	115.640
25°C	46.183	46.183	54.891	54.891	56.452	56.452	85.115	85.115	100.094	100.094	107.796	107.796	115.497	115.497
27°C	44.790	44.790	52.631	52.631	55.244	55.244	83.993	83.993	99.674	99.674	107.514	107.514	115.355	115.355
Frost Region														

**Remark:**

- AFR: Air flow rate (CFM)
- EWB: Entering Wet Bulb Temp. (°C)
- EDB: Entering Dry Bulb Temp. (°C)
- TC: Total Cooling / Heating Capacity (kW)
- SC: Sensible Cooling / Heating Capacity (kW)
- PI: Power Input (kW)

**Notes:**

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

**Model: 3FGYP300EXY1 - RCYP100EXY1 x 3**

**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8100	16°C	21°C	79.06	55.02	27.54	76.56	53.81	29.43	73.90	52.53	31.63	71.04	51.16	34.13	63.93	46.70	36.93	59.38	44.18	40.66
		24°C	79.37	65.54	27.57	76.87	64.18	29.46	74.21	62.74	31.66	71.37	61.21	34.17	64.27	56.02	36.97	59.69	53.23	40.70
		27°C	79.67	75.44	27.60	77.23	74.04	29.50	74.64	72.51	31.70	71.99	70.64	34.23	65.17	64.33	37.08	61.16	60.42	40.90
		30°C	82.83	82.83	27.87	80.74	80.74	29.83	78.49	78.49	32.10	76.09	76.09	34.68	69.12	69.12	37.57	64.99	64.99	41.42
	19°C	24°C	86.87	51.98	28.23	84.17	50.85	30.16	81.28	49.65	32.38	78.21	48.39	34.91	70.45	44.23	37.73	65.50	41.97	41.49
		27°C	87.09	60.72	28.25	84.38	59.48	30.18	81.50	58.17	32.41	78.45	56.78	34.93	70.71	52.00	37.76	65.78	49.47	41.52
		30°C	87.43	74.11	28.28	84.67	72.76	30.21	81.76	71.35	32.44	78.68	69.87	34.97	70.95	64.23	37.80	66.05	61.41	41.56
		33°C	87.93	87.93	28.32	85.43	85.43	30.28	82.93	82.93	32.56	80.44	80.44	35.16	73.15	73.15	38.07	68.89	68.89	41.96
	22°C	27°C	95.31	48.84	29.00	92.30	47.76	30.96	89.16	46.65	33.22	85.86	45.49	35.77	77.44	41.62	38.62	72.10	39.53	42.41
		30°C	95.44	60.37	29.01	92.44	59.17	30.98	89.33	57.92	33.24	86.03	56.59	35.79	77.60	51.87	38.64	72.29	49.42	42.43
		33°C	95.71	70.35	29.04	92.72	69.09	31.01	89.59	67.78	33.27	86.29	66.41	35.83	77.85	61.08	38.67	72.54	58.44	42.47
		36°C	95.98	80.10	29.07	92.99	78.84	31.04	89.82	77.50	33.30	86.54	76.13	35.86	78.16	70.13	38.71	73.18	66.84	42.56
9000	16°C	21°C	80.73	57.24	27.69	78.14	56.02	29.58	75.36	54.68	31.78	72.41	53.19	34.28	65.17	48.51	37.08	60.48	45.85	40.81
		24°C	81.15	68.23	27.73	78.56	66.85	29.62	75.80	65.37	31.82	72.86	63.81	34.33	65.57	58.43	37.13	60.83	55.56	40.86
		27°C	81.71	79.10	27.77	79.29	77.40	29.69	76.81	75.40	31.93	74.33	73.04	34.49	67.41	66.57	37.35	63.24	62.64	41.18
		30°C	85.95	85.95	28.15	83.74	83.74	30.12	81.36	81.36	32.39	78.83	78.83	34.98	71.57	71.57	37.87	67.26	67.26	41.73
	19°C	24°C	88.64	54.03	28.39	85.83	52.89	30.32	82.82	51.68	32.55	79.64	50.40	35.07	71.71	46.12	37.89	66.68	43.80	41.64
		27°C	88.97	63.24	28.42	86.16	61.97	30.35	83.17	60.62	32.58	80.01	59.21	35.11	72.07	54.26	37.93	67.02	51.66	41.69
		30°C	89.38	77.57	28.46	86.52	76.20	30.39	83.50	74.76	32.63	80.36	73.27	35.15	72.45	67.34	37.98	67.56	64.05	41.77
		33°C	90.78	90.78	28.58	88.46	88.46	30.58	86.01	86.01	32.89	83.41	83.41	35.49	75.81	75.81	38.41	71.35	71.35	42.30
	22°C	27°C	97.15	50.72	29.17	94.04	49.65	31.14	90.79	48.53	33.40	87.36	47.36	35.95	78.76	43.38	38.79	73.31	41.28	42.57
		30°C	97.38	63.00	29.19	94.28	61.74	31.16	91.04	60.44	33.42	87.63	59.06	35.98	79.02	54.17	38.82	73.59	51.64	42.61
		33°C	97.75	73.67	29.23	94.66	72.39	31.20	91.39	71.05	33.47	87.97	69.65	36.02	79.33	64.11	38.87	73.89	61.39	42.66
		36°C	98.09	84.23	29.26	94.98	82.93	31.24	91.78	81.45	33.51	88.60	79.73	36.09	80.31	73.70	38.99	75.51	70.27	42.89
9900	16°C	21°C	82.16	58.80	27.81	79.47	57.44	29.71	76.63	55.99	31.91	73.63	54.45	34.41	66.22	49.64	37.20	61.42	46.92	40.94
		24°C	82.69	70.07	27.86	80.00	68.66	29.76	77.16	67.17	31.96	74.12	65.59	34.47	66.65	60.09	37.26	61.85	57.20	40.99
		27°C	83.85	81.67	27.96	81.51	80.33	29.91	79.11	78.76	32.16	76.54	76.54	34.73	69.38	69.38	37.60	65.05	65.05	41.43
		30°C	88.71	88.71	28.40	86.37	86.37	30.38	83.88	83.88	32.66	81.24	81.24	35.25	73.72	73.72	38.14	69.24	69.24	42.00
	19°C	24°C	90.12	56.54	28.53	87.21	55.39	30.46	84.12	54.16	32.68	80.85	52.83	35.21	72.79	48.28	38.02	67.63	45.75	41.78
		27°C	90.57	66.19	28.57	87.68	64.88	30.50	84.57	63.48	32.73	81.32	62.03	35.26	73.21	56.87	38.08	68.03	54.19	41.84
		30°C	91.05	81.56	28.61	88.08	80.14	30.55	85.05	78.63	32.79	81.87	76.94	35.32	73.98	70.35	38.18	69.26	66.43	42.01
		33°C	93.72	93.72	28.86	91.29	91.29	30.86	88.74	88.74	33.18	86.01	86.01	35.79	78.15	78.15	38.71	73.51	73.51	42.61
	22°C	27°C	98.69	53.06	29.32	95.50	51.97	31.29	92.14	50.84	33.54	88.64	49.68	36.09	79.88	45.56	38.93	74.32	43.35	42.71
		30°C	99.02	65.99	29.35	95.84	64.69	31.32	92.51	63.34	33.58	89.02	61.92	36.14	80.24	56.82	38.98	74.69	54.21	42.76
		33°C	99.49	77.50	29.39	96.28	76.18	31.37	92.93	74.80	33.63	89.41	73.36	36.19	80.58	67.56	39.03	75.01	64.75	42.82
		36°C	99.99	88.75	29.44	96.99	87.11	31.44	93.94	85.19	33.74	90.90	82.97	36.37	82.64	76.29	39.30	77.85	72.45	43.23

**Model: 3FGYP300EXY1 - RCYP100EXY1 x 3**

**Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	57.938	57.938	65.576	65.576	68.122	68.122	96.127	96.127	111.402	111.402	119.040	119.040	126.678	126.678
17°C	56.419	56.419	66.080	66.080	66.362	66.362	96.012	96.012	108.620	108.620	116.077	116.077	123.535	123.535
19°C	54.900	54.900	66.584	66.584	64.603	64.603	95.897	95.897	105.838	105.838	113.115	113.115	120.392	120.392
21°C	53.381	53.381	65.199	65.199	62.843	62.843	93.806	93.806	103.056	103.056	110.152	110.152	117.248	117.248
23°C	51.862	51.862	61.926	61.926	61.084	61.084	89.737	89.737	100.274	100.274	107.189	107.189	114.105	114.105
25°C	50.344	50.344	58.653	58.653	59.324	59.324	85.668	85.668	97.491	97.491	104.227	104.227	110.962	110.962
27°C	48.825	48.825	55.380	55.380	57.565	57.565	81.599	81.599	94.709	94.709	101.264	101.264	107.819	107.819
Frost Region														

**Remark:**

- AFR: Air flow rate (CFM)
- EWB: Entering Wet Bulb Temp. (°C)
- EDB: Entering Dry Bulb Temp. (°C)
- TC: Total Cooling / Heating Capacity (kW)
- SC: Sensible Cooling / Heating Capacity (kW)
- PI: Power Input (kW)

**Notes:**

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

## Model: 3FGYP350EXY1 - RCYP100EXY1 + RCYP125EXY1 x 2

## Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
9450	16°C	21°C	88.92	66.90	29.32	86.10	65.42	31.33	83.11	63.86	33.67	79.89	62.20	36.33	71.89	56.78	39.31	66.78	53.72	43.29
		24°C	89.26	79.69	29.35	86.45	78.03	31.37	83.46	76.28	33.71	80.27	74.42	36.37	72.28	68.11	39.36	67.12	64.72	43.33
		27°C	89.59	89.59	29.38	86.86	86.86	31.40	83.94	83.94	33.75	80.96	80.96	36.45	73.29	73.29	39.48	68.78	68.78	43.54
		30°C	93.15	93.15	29.67	90.80	90.80	31.76	88.27	88.27	34.17	85.57	85.57	36.92	77.73	77.73	39.99	73.09	73.09	44.10
	19°C	24°C	97.69	63.20	30.06	94.66	61.83	32.11	91.40	60.37	34.47	87.95	58.83	37.16	79.23	53.78	40.16	73.67	51.03	44.17
		27°C	97.94	73.83	30.08	94.89	72.32	32.13	91.66	70.72	34.50	88.22	69.03	37.19	79.52	63.22	40.20	73.98	60.15	44.20
		30°C	98.32	90.10	30.11	95.22	88.46	32.17	91.95	86.75	34.54	88.49	84.94	37.23	79.79	78.09	40.24	74.28	74.28	44.25
		33°C	98.89	98.89	30.15	96.07	96.07	32.24	93.27	93.27	34.66	90.47	90.47	37.43	82.27	82.27	40.53	77.48	77.48	44.67
	22°C	27°C	107.19	59.38	30.87	103.80	58.07	32.97	100.27	56.72	35.37	96.56	55.30	38.08	87.09	50.60	41.11	81.08	48.06	45.15
		30°C	107.34	73.40	30.89	103.96	71.94	32.98	100.46	70.43	35.39	96.75	68.80	38.10	87.27	63.07	41.13	81.30	60.08	45.17
		33°C	107.64	85.53	30.92	104.27	84.00	33.01	100.75	82.41	35.42	97.04	80.74	38.14	87.55	74.26	41.17	81.58	71.05	45.21
		36°C	107.94	97.39	30.94	104.58	95.85	33.04	101.01	94.23	35.45	97.33	92.56	38.17	87.90	85.27	41.21	82.29	81.26	45.31
10500	16°C	21°C	90.79	69.59	29.48	87.88	68.11	31.49	84.75	66.48	33.83	81.44	64.67	36.50	73.29	58.98	39.47	68.02	55.75	43.44
		24°C	91.26	82.96	29.52	88.35	81.27	31.54	85.25	79.48	33.88	81.94	77.58	36.55	73.74	71.04	39.53	68.41	67.55	43.50
		27°C	91.89	91.89	29.57	89.17	89.17	31.61	86.38	86.38	33.99	83.59	83.59	36.71	75.81	75.81	39.77	71.12	71.12	43.84
		30°C	96.66	96.66	29.97	94.17	94.17	32.06	91.50	91.50	34.49	88.65	88.65	37.24	80.49	80.49	40.32	75.64	75.64	44.43
	19°C	24°C	99.68	65.69	30.23	96.53	64.31	32.28	93.14	62.83	34.65	89.56	61.28	37.33	80.65	56.07	40.34	74.99	53.25	44.33
		27°C	100.06	76.89	30.26	96.90	75.35	32.31	93.53	73.71	34.69	89.98	71.98	37.38	81.05	65.96	40.38	75.37	62.81	44.38
		30°C	100.52	94.31	30.30	97.31	92.65	32.36	93.91	90.90	34.73	90.38	89.08	37.42	81.47	81.47	40.43	75.98	75.98	44.47
		33°C	102.09	102.09	30.43	99.48	99.48	32.56	96.73	96.73	35.01	93.80	93.80	37.79	85.26	85.26	40.90	80.25	80.25	45.04
	22°C	27°C	109.25	61.67	31.06	105.75	60.36	33.15	102.10	59.00	35.56	98.24	57.58	38.27	88.57	52.74	41.29	82.44	50.18	45.32
		30°C	109.51	76.59	31.08	106.03	75.06	33.18	102.39	73.48	35.58	98.54	71.81	38.30	88.86	65.86	41.33	82.76	62.78	45.36
		33°C	109.94	89.57	31.12	106.45	88.01	33.22	102.78	86.38	35.63	98.93	84.68	38.35	89.22	77.94	41.38	83.09	74.64	45.41
		36°C	110.32	102.41	31.15	106.82	100.83	33.26	103.21	99.03	35.68	99.64	96.93	38.42	90.32	89.60	41.51	84.92	84.92	45.67
11550	16°C	21°C	92.40	71.49	29.61	89.37	69.83	31.63	86.17	68.07	33.97	82.80	66.20	36.63	74.47	60.36	39.61	69.08	57.05	43.59
		24°C	93.00	85.19	29.66	89.97	83.47	31.68	86.77	81.67	34.03	83.36	79.75	36.69	74.96	73.06	39.67	69.55	69.54	43.64
		27°C	94.29	94.29	29.76	91.67	91.67	31.84	88.97	88.97	34.24	86.08	86.08	36.97	78.03	78.03	40.03	73.16	73.16	44.10
		30°C	99.77	99.77	30.23	97.13	97.13	32.34	94.34	94.34	34.77	91.36	91.36	37.53	82.91	82.91	40.61	77.87	77.87	44.72
	19°C	24°C	101.35	68.75	30.37	98.08	67.34	32.42	94.60	65.84	34.79	90.92	64.24	37.48	81.86	58.70	40.47	76.06	55.62	44.47
		27°C	101.86	80.47	30.41	98.60	78.88	32.47	95.11	77.18	34.85	91.45	75.42	37.54	82.34	69.15	40.54	76.51	65.88	44.54
		30°C	102.39	99.16	30.46	99.05	97.43	32.52	95.65	95.60	34.90	92.08	92.08	37.60	83.20	83.20	40.64	77.89	77.89	44.72
		33°C	105.40	105.40	30.72	102.67	102.67	32.86	99.80	99.80	35.32	96.73	96.73	38.11	87.88	87.88	41.22	82.67	82.67	45.36
	22°C	27°C	110.99	64.51	31.21	107.40	63.19	33.31	103.62	61.81	35.71	99.68	60.40	38.42	89.83	55.39	41.45	83.58	52.71	45.47
		30°C	111.36	80.23	31.25	107.78	78.65	33.35	104.04	77.01	35.75	100.11	75.29	38.47	90.23	69.09	41.50	83.99	65.91	45.53
		33°C	111.89	94.22	31.29	108.28	92.61	33.40	104.51	90.94	35.81	100.55	89.20	38.53	90.62	82.14	41.56	84.36	78.72	45.59
		36°C	112.45	107.91	31.34	109.08	105.91	33.47	105.64	103.58	35.92	102.23	100.88	38.71	92.93	92.76	41.84	87.55	87.55	46.02

## Model: 3FGYP350EXY1 - RCYP100EXY1 + RCYP125EXY1 x 2

## Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	63.252	63.252	71.590	71.590	74.369	74.369	104.943	104.943	121.620	121.620	129.958	129.958	138.296	138.296
17°C	61.593	61.593	70.021	70.021	72.722	72.722	104.818	104.818	120.020	120.020	128.366	128.366	136.713	136.713
19°C	59.935	59.935	68.452	68.452	71.075	71.075	104.693	104.693	118.420	118.420	126.775	126.775	135.130	135.130
21°C	58.277	58.277	66.814	66.814	69.428	69.428	103.289	103.289	116.820	116.820	125.183	125.183	133.546	133.546
23°C	56.619	56.619	65.106	65.106	67.781	67.781	100.607	100.607	115.220	115.220	123.591	123.591	131.963	131.963
25°C	54.961	54.961	63.399	63.399	66.134	66.134	97.925	97.925	113.620	113.620	122.000	122.000	130.379	130.379
27°C	53.303	53.303	61.691	61.691	64.487	64.487	95.243	95.243	112.020	112.020	120.408	120.408	128.796	128.796
Frost Region														

## Remark:

AFR: Air flow rate (CFM)

EWB: Entering Wet Bulb Temp. (°C)

EDB: Entering Dry Bulb Temp. (°C)

TC: Total Cooling / Heating Capacity (kW)

SC: Sensible Cooling / Heating Capacity (kW)

PI: Power Input (kW)

## Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

**Model: 4FGYP400EXY1 - RCYP100EXY1 x 4**

**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
10800	16°C	21°C	105.42	73.37	36.41	102.08	71.75	38.91	98.53	70.04	41.81	94.72	68.21	45.12	85.24	62.27	48.82	79.18	58.91	53.75
		24°C	105.83	87.39	36.44	102.49	85.57	38.95	98.95	83.65	41.86	95.17	81.61	45.17	85.69	74.70	48.87	79.58	70.98	53.81
		27°C	106.22	100.59	36.49	102.98	98.72	39.00	99.52	96.68	41.91	95.99	94.19	45.26	86.89	85.77	49.02	81.54	80.56	54.07
		30°C	110.43	110.43	36.84	107.65	107.65	39.43	104.65	104.65	42.43	101.45	101.45	45.84	92.16	92.16	49.66	86.65	86.65	54.75
	19°C	24°C	115.83	69.31	37.32	112.23	67.80	39.87	108.37	66.20	42.81	104.28	64.52	46.14	93.94	58.97	49.87	87.34	55.96	54.84
		27°C	116.12	80.97	37.35	112.50	79.31	39.89	108.67	77.56	42.84	104.60	75.71	46.18	94.27	69.34	49.91	87.71	65.96	54.89
		30°C	116.57	98.81	37.39	112.89	97.02	39.94	109.02	95.13	42.89	104.91	93.15	46.23	94.60	85.64	49.97	88.06	81.88	54.94
		33°C	117.25	117.25	37.44	113.90	113.90	40.03	110.58	110.58	43.04	107.26	107.26	46.48	97.54	97.54	50.33	91.86	91.86	55.47
	22°C	27°C	127.08	65.12	38.34	123.06	63.68	40.93	118.88	62.20	43.92	114.48	60.65	47.29	103.25	55.49	51.05	96.13	52.71	56.06
		30°C	127.26	80.49	38.35	123.25	78.90	40.95	119.10	77.23	43.94	114.70	75.45	47.31	103.47	69.17	51.07	96.39	65.89	56.08
		33°C	127.61	93.80	38.39	123.63	92.12	40.99	119.45	90.38	43.98	115.05	88.55	47.36	103.80	81.44	51.12	96.72	77.92	56.14
		36°C	127.98	106.80	38.42	123.99	105.12	41.03	119.76	103.34	44.02	115.39	101.51	47.40	104.21	93.51	51.17	97.57	89.12	56.26
12000	16°C	21°C	107.64	76.32	36.60	104.19	74.69	39.10	100.47	72.91	42.01	96.55	70.93	45.32	86.89	64.69	49.01	80.64	61.14	53.94
		24°C	108.20	90.98	36.65	104.75	89.13	39.16	101.07	87.16	42.07	97.14	85.08	45.38	87.42	77.91	49.08	81.11	74.08	54.01
		27°C	108.95	105.47	36.71	105.72	103.21	39.25	102.41	100.53	42.21	99.11	97.39	45.59	89.88	88.76	49.38	84.31	83.52	54.44
		30°C	114.60	114.60	37.21	111.65	111.65	39.81	108.48	108.48	42.82	105.11	105.11	46.24	95.43	95.43	50.07	89.67	89.67	55.16
	19°C	24°C	118.19	72.04	37.53	114.45	70.52	40.08	110.43	68.91	43.02	106.18	67.21	46.36	95.62	61.49	50.09	88.91	58.40	55.05
		27°C	118.63	84.33	37.57	114.89	82.63	40.12	110.89	80.83	43.07	106.68	78.94	46.41	96.09	72.34	50.14	89.36	68.88	55.11
		30°C	119.17	103.43	37.62	115.36	101.61	40.18	111.34	99.68	43.13	107.15	97.69	46.47	96.59	89.79	50.21	90.08	85.40	55.22
		33°C	121.04	121.04	37.78	117.94	117.94	40.43	114.68	114.68	43.47	111.21	111.21	46.92	101.08	101.08	50.78	95.14	95.14	55.92
	22°C	27°C	129.53	67.63	38.56	125.38	66.20	41.16	121.06	64.71	44.15	116.48	63.15	47.52	105.01	57.84	51.27	97.74	55.03	56.27
		30°C	129.84	84.00	38.59	125.70	82.32	41.20	121.39	80.58	44.18	116.83	78.75	47.56	105.36	72.23	51.32	98.12	68.85	56.32
		33°C	130.34	98.23	38.64	126.21	96.52	41.25	121.86	94.73	44.24	117.29	92.87	47.62	105.78	85.47	51.38	98.52	81.86	56.39
		36°C	130.79	112.31	38.68	126.64	110.58	41.30	122.37	108.60	44.30	118.13	106.30	47.71	107.08	98.27	51.55	100.68	93.69	56.70
13200	16°C	21°C	109.55	78.40	36.77	105.96	76.58	39.28	102.17	74.65	42.18	98.17	72.60	45.49	88.29	66.19	49.18	81.90	62.56	54.12
		24°C	110.25	93.43	36.83	106.67	91.54	39.34	102.87	89.56	42.25	98.83	87.46	45.56	88.87	80.12	49.26	82.46	76.27	54.19
		27°C	111.79	108.89	36.96	108.68	107.10	39.53	105.49	105.01	42.51	102.06	102.06	45.91	92.51	92.51	49.70	86.73	86.73	54.76
		30°C	118.28	118.28	37.54	115.16	115.16	40.16	111.85	111.85	43.17	108.31	108.31	46.60	98.30	98.30	50.42	92.32	92.32	55.53
	19°C	24°C	120.16	75.39	37.71	116.28	73.85	40.26	112.16	72.21	43.20	107.80	70.45	46.54	97.06	64.37	50.26	90.18	61.00	55.22
		27°C	120.77	88.25	37.76	116.90	86.51	40.32	112.76	84.64	43.27	108.42	82.71	46.61	97.62	75.83	50.34	90.71	72.25	55.30
		30°C	121.40	108.75	37.82	117.44	106.85	40.39	113.40	104.85	43.34	109.16	102.59	46.69	98.64	93.80	50.47	92.34	88.57	55.53
		33°C	124.96	124.96	38.15	121.72	121.72	40.80	118.32	118.32	43.86	114.69	114.69	47.32	104.19	104.19	51.18	98.02	98.02	56.32
	22°C	27°C	131.59	70.75	38.75	127.33	69.30	41.36	122.85	67.79	44.34	118.18	66.24	47.71	106.51	60.75	51.46	99.09	57.81	56.46
		30°C	132.03	87.99	38.80	127.78	86.26	41.41	123.35	84.45	44.39	118.69	82.57	47.77	106.98	75.77	51.53	99.58	72.28	56.53
		33°C	132.66	103.33	38.86	128.38	101.57	41.47	123.90	99.73	44.46	119.21	97.82	47.84	107.44	90.08	51.60	100.02	86.33	56.61
		36°C	133.32	118.34	38.92	129.32	116.15	41.56	125.25	113.59	44.61	121.20	110.63	48.07	110.18	101.73	51.96	103.80	96.60	57.15

**Model: 4FGYP400EXY1 - RCYP100EXY1 x 4**

**Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	77.246	77.246	87.430	87.430	90.824	90.824	128.162	128.162	148.529	148.529	158.712	158.712	168.895	168.895
17°C	75.221	75.221	88.104	88.104	88.478	88.478	128.009	128.009	144.820	144.820	154.763	154.763	164.706	164.706
19°C	73.196	73.196	88.778	88.778	86.133	86.133	127.856	127.856	141.112	141.112	150.814	150.814	160.516	160.516
21°C	71.171	71.171	86.932	86.932	83.787	83.787	125.068	125.068	137.403	137.403	146.865	146.865	156.327	156.327
23°C	69.146	69.146	82.567	82.567	81.441	81.441	119.645	119.645	133.695	133.695	142.916	142.916	152.137	152.137
25°C	67.121	67.121	78.202	78.202	79.096	79.096	114.221	114.221	129.986	129.986	138.967	138.967	147.948	147.948
27°C	65.096	65.096	73.836	73.836	76.750	76.750	108.797	108.797	126.278	126.278	135.018	135.018	143.758	143.758
Frost Region														

**Remark:**

AFR: Air flow rate (CFM)  
 EWB: Entering Wet Bulb Temp. (°C)  
 EDB: Entering Dry Bulb Temp. (°C)  
 TC: Total Cooling Capacity (kW)  
 SC: Sensible Cooling Capacity (kW)  
 PI: Power Input (kW)

**Notes:**

- Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
- shows nominal capacities.
- Direct interpolation is permissible. Do not extrapolate.
- Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: 3FGYP450EXY1 - RCYP150EXY1 x 3

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
13500	16°C	21°C	125.11	89.43	36.73	121.15	87.45	39.25	116.94	85.37	42.18	112.42	83.14	45.52	101.16	75.91	49.25	93.97	71.81	54.22
		24°C	125.60	106.52	36.76	121.64	104.30	39.29	117.43	101.96	42.23	112.95	99.48	45.57	101.70	91.05	49.30	94.45	86.52	54.28
		27°C	126.06	122.61	36.81	122.22	120.33	39.34	118.11	117.84	42.28	113.92	113.92	45.66	103.12	103.12	49.45	96.78	96.78	54.55
		30°C	131.07	131.07	37.17	127.76	127.76	39.78	124.21	124.21	42.81	120.40	120.40	46.25	109.37	109.37	50.10	102.84	102.84	55.24
	19°C	24°C	137.46	84.48	37.65	133.19	82.65	40.22	128.61	80.69	43.18	123.76	78.64	46.55	111.49	71.88	50.31	103.65	68.21	55.33
		27°C	137.82	98.69	37.68	133.52	96.67	40.25	128.97	94.54	43.22	124.14	92.28	46.59	111.89	84.51	50.35	104.10	80.40	55.37
		30°C	138.35	120.44	37.72	133.99	118.25	40.29	129.38	115.96	43.27	124.51	113.55	46.64	112.27	104.39	50.41	104.51	99.80	55.43
		33°C	139.15	139.15	37.77	135.18	135.18	40.38	131.24	131.24	43.42	127.30	127.30	46.89	115.76	115.76	50.78	109.02	109.02	55.96
	22°C	27°C	150.82	79.37	38.67	146.05	77.62	41.29	141.09	75.81	44.31	135.87	73.93	47.71	122.54	67.63	51.50	114.09	64.25	56.55
		30°C	151.03	98.11	38.69	146.28	96.17	41.31	141.35	94.14	44.33	136.13	91.96	47.73	122.80	84.31	51.52	114.40	80.32	56.58
		33°C	151.45	114.33	38.73	146.72	112.29	41.35	141.77	110.16	44.37	136.55	107.93	47.78	123.19	99.27	51.58	114.79	94.98	56.63
		36°C	151.89	130.18	38.76	147.15	128.13	41.39	142.14	125.96	44.41	136.95	123.73	47.82	123.68	113.98	51.63	115.80	108.63	56.76
15000	16°C	21°C	127.75	93.03	36.92	123.66	91.04	39.45	119.25	88.87	42.38	114.59	86.45	45.72	103.12	78.85	49.45	95.71	74.52	54.42
		24°C	128.41	110.89	36.98	124.32	108.64	39.51	119.95	106.24	42.44	115.29	103.70	45.78	103.76	94.97	49.51	96.26	90.30	54.49
		27°C	129.30	128.56	37.04	125.47	125.47	39.60	121.55	121.55	42.58	117.62	117.62	45.99	106.67	106.67	49.81	100.07	100.07	54.92
		30°C	136.01	136.01	37.54	132.51	132.51	40.16	128.75	128.75	43.20	124.74	124.74	46.65	113.26	113.26	50.51	106.43	106.43	55.65
	19°C	24°C	140.26	87.81	37.86	135.83	85.96	40.43	131.06	83.99	43.40	126.02	81.92	46.76	113.48	74.95	50.53	105.52	71.19	55.53
		27°C	140.80	102.79	37.90	136.35	100.72	40.48	131.61	98.53	43.45	126.61	96.22	46.82	114.05	88.18	50.59	106.06	83.96	55.59
		30°C	141.44	126.07	37.96	136.92	123.85	40.53	132.14	121.50	43.51	127.17	119.08	46.88	114.64	109.45	50.65	106.91	104.10	55.71
		33°C	143.65	143.65	38.12	139.98	139.98	40.78	136.10	136.10	43.86	131.99	131.99	47.34	119.97	119.97	51.23	112.91	112.91	56.41
	22°C	27°C	153.73	82.44	38.90	148.80	80.69	41.53	143.67	78.87	44.54	138.24	76.97	47.94	124.63	70.50	51.73	116.00	67.08	56.77
		30°C	154.10	102.38	38.93	149.19	100.34	41.56	144.07	98.22	44.57	138.66	95.99	47.98	125.04	88.04	51.77	116.45	83.92	56.82
		33°C	154.69	119.73	38.98	149.79	117.65	41.61	144.63	115.47	44.63	139.20	113.19	48.04	125.54	104.19	51.83	116.92	99.78	56.89
		36°C	155.23	136.89	39.03	150.30	134.78	41.66	145.23	132.37	44.69	140.20	129.57	48.13	127.09	119.78	52.00	119.49	114.20	57.20
16500	16°C	21°C	130.01	95.56	37.09	125.76	93.34	39.62	121.25	90.99	42.56	116.51	88.49	45.89	104.79	80.68	49.62	97.20	76.26	54.60
		24°C	130.85	113.88	37.16	126.59	111.58	39.69	122.09	109.17	42.62	117.29	106.60	45.96	105.47	97.66	49.70	97.87	92.96	54.67
		27°C	132.68	132.68	37.28	128.99	128.99	39.88	125.19	125.19	42.89	121.12	121.12	46.31	109.79	109.79	50.14	102.94	102.94	55.25
		30°C	140.38	140.38	37.87	136.67	136.67	40.51	132.74	132.74	43.55	128.55	128.55	47.01	116.66	116.66	50.87	109.57	109.57	56.02
	19°C	24°C	142.61	91.90	38.04	138.01	90.01	40.61	133.11	88.01	43.59	127.94	85.87	46.95	115.19	78.46	50.70	107.02	74.35	55.71
		27°C	143.33	107.57	38.10	138.74	105.44	40.68	133.82	103.17	43.65	128.68	100.81	47.02	115.85	92.43	50.78	107.66	88.07	55.79
		30°C	144.08	132.55	38.16	139.37	130.24	40.74	134.58	127.80	43.72	129.56	125.04	47.10	117.07	114.33	50.91	109.59	107.95	56.02
		33°C	148.31	148.31	38.48	144.46	144.46	41.16	140.42	140.42	44.25	136.11	136.11	47.73	123.66	123.66	51.63	116.33	116.33	56.82
	22°C	27°C	156.17	86.23	39.10	151.12	84.47	41.72	145.81	82.62	44.73	140.26	80.75	48.13	126.40	74.05	51.92	117.60	70.46	56.96
		30°C	156.69	107.25	39.14	151.66	105.14	41.77	146.40	102.94	44.79	140.86	100.64	48.19	126.97	92.35	51.98	118.18	88.10	57.03
		33°C	157.44	125.95	39.20	152.36	123.80	41.83	147.05	121.57	44.86	141.48	119.23	48.26	127.51	109.79	52.06	118.70	105.23	57.11
		36°C	158.23	144.24	39.26	153.48	141.57	41.93	148.65	138.46	45.00	143.84	134.85	48.50	130.76	123.99	52.42	123.20	117.74	57.65

Model: 3FGYP450EXY1 - RCYP150EXY1 x 3

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	79.731	79.731	90.242	90.242	93.745	93.745	132.285	132.285	153.306	153.306	163.817	163.817	174.328	174.328
17°C	77.641	77.641	89.081	89.081	92.110	92.110	132.127	132.127	153.604	153.604	164.455	164.455	175.307	175.307
19°C	75.551	75.551	87.920	87.920	90.475	90.475	131.969	131.969	153.901	153.901	165.094	165.094	176.287	176.287
21°C	73.460	73.460	86.255	86.255	88.839	88.839	131.617	131.617	154.199	154.199	165.733	165.733	177.267	177.267
23°C	71.370	71.370	84.086	84.086	87.204	87.204	131.070	131.070	154.496	154.496	166.371	166.371	178.247	178.247
25°C	69.280	69.280	81.917	81.917	85.568	85.568	130.523	130.523	154.794	154.794	167.010	167.010	179.226	179.226
27°C	67.190	67.190	79.747	79.747	83.933	83.933	129.977	129.977	155.091	155.091	167.649	167.649	180.206	180.206
Frost Region														

Remark:

- AFR: Air flow rate (CFM)
- EWB: Entering Wet Bulb Temp. (°C)
- EDB: Entering Dry Bulb Temp. (°C)
- TC: Total Cooling Capacity (kW)
- SC: Sensible Cooling Capacity (kW)
- PI: Power Input (kW)

Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

Model: 4FGYP500EXY1 - RCYP125EXY1 x 4

Cooling Mode

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
13500	16°C	21°C	125.98	94.79	40.21	122.00	92.70	42.98	117.75	90.49	46.18	113.20	88.13	49.84	101.86	80.46	53.92	94.62	76.11	59.37
		24°C	126.47	112.90	40.25	122.48	110.55	43.02	118.25	108.07	46.23	113.73	105.44	49.89	102.41	96.51	53.98	95.11	91.70	59.43
		27°C	126.94	126.94	40.30	123.07	123.07	43.07	118.94	118.94	46.29	114.71	114.71	49.99	103.84	103.84	54.14	97.45	97.45	59.72
		30°C	131.98	131.98	40.70	128.65	128.65	43.56	125.07	125.07	46.87	121.24	121.24	50.64	110.13	110.13	54.85	103.56	103.56	60.48
	19°C	24°C	138.42	89.55	41.23	134.12	87.60	44.04	129.51	85.53	47.28	124.62	83.35	50.97	112.26	76.19	55.09	104.37	72.30	60.58
		27°C	138.77	104.61	41.25	134.45	102.47	44.07	129.87	100.20	47.32	125.00	97.81	51.01	112.66	89.58	55.13	104.82	85.22	60.63
		30°C	139.31	127.66	41.30	134.92	125.34	44.12	130.28	122.91	47.37	125.37	120.35	51.07	113.05	110.64	55.19	105.24	105.24	60.69
		33°C	140.12	140.12	41.36	136.12	136.12	44.22	132.15	132.15	47.55	128.18	128.18	51.34	116.57	116.57	55.60	109.78	109.78	61.27
	22°C	27°C	151.87	84.13	42.35	147.07	82.27	45.21	142.07	80.36	48.51	136.81	78.36	52.23	123.40	71.69	56.39	114.88	68.10	61.92
		30°C	152.08	103.99	42.36	147.30	101.93	45.24	142.33	99.78	48.53	137.08	97.48	52.26	123.65	89.36	56.42	115.19	85.13	61.95
		33°C	152.51	121.18	42.40	147.74	119.02	45.28	142.76	116.76	48.58	137.49	114.40	52.31	124.05	105.22	56.47	115.59	100.67	62.01
		36°C	152.94	137.99	42.44	148.18	135.81	45.32	143.13	133.51	48.63	137.90	131.15	52.36	124.54	120.81	56.53	116.60	115.14	62.14
15000	16°C	21°C	128.64	98.60	40.43	124.52	96.50	43.19	120.07	94.19	46.40	115.38	91.63	50.06	103.84	83.57	54.14	96.37	78.99	59.58
		24°C	129.31	117.54	40.49	125.18	115.15	43.26	120.79	112.61	46.47	116.09	109.91	50.13	104.48	100.66	54.21	96.93	95.71	59.66
		27°C	130.20	130.20	40.55	126.34	126.34	43.35	122.39	122.39	46.62	118.44	118.44	50.36	107.41	107.41	54.54	100.76	100.76	60.13
		30°C	136.95	136.95	41.10	133.43	133.43	43.98	129.64	129.64	47.30	125.61	125.61	51.08	114.04	114.04	55.30	107.17	107.17	60.93
	19°C	24°C	141.24	93.07	41.46	136.77	91.12	44.27	131.97	89.02	47.52	126.90	86.83	51.20	114.27	79.44	55.33	106.25	75.45	60.80
		27°C	141.77	108.95	41.50	137.30	106.76	44.32	132.53	104.43	47.58	127.49	101.99	51.26	114.84	93.46	55.39	106.80	89.00	60.87
		30°C	142.42	133.63	41.56	137.87	131.27	44.38	133.06	128.79	47.64	128.05	126.22	51.33	115.44	115.44	55.46	107.66	107.66	61.00
		33°C	144.65	144.65	41.74	140.95	140.95	44.65	137.05	137.05	48.02	132.90	132.90	51.83	120.80	120.80	56.09	113.70	113.70	61.77
	22°C	27°C	154.80	87.38	42.59	149.84	85.52	45.47	144.67	83.60	48.77	139.20	81.58	52.49	125.49	74.72	56.64	116.81	71.10	62.16
		30°C	155.17	108.52	42.63	150.22	106.35	45.51	145.07	104.11	48.80	139.62	101.75	52.53	125.91	93.32	56.68	117.26	88.96	62.21
		33°C	155.76	126.91	42.68	150.83	124.70	45.56	145.63	122.39	48.87	140.17	119.98	52.60	126.41	110.43	56.75	117.73	105.76	62.29
		36°C	156.31	145.10	42.73	151.35	142.86	45.62	146.24	140.31	48.93	141.18	137.34	52.70	127.97	126.96	56.94	120.32	120.32	62.63
16500	16°C	21°C	130.92	101.29	40.61	126.63	98.94	43.38	122.10	96.44	46.59	117.32	93.79	50.25	105.52	85.52	54.32	97.87	80.83	59.78
		24°C	131.76	120.70	40.68	127.47	118.27	43.46	122.94	115.71	46.67	118.11	112.99	50.33	106.20	103.51	54.41	98.55	98.53	59.86
		27°C	133.60	133.60	40.82	129.89	129.89	43.67	126.06	126.06	46.96	121.96	121.96	50.71	110.55	110.55	54.90	103.65	103.65	60.49
		30°C	141.36	141.36	41.47	137.62	137.62	44.36	133.66	133.66	47.69	129.44	129.44	51.47	117.47	117.47	55.70	110.33	110.33	61.33
	19°C	24°C	143.60	97.40	41.65	138.97	95.41	44.47	134.04	93.29	47.72	128.83	91.01	51.41	115.99	83.17	55.51	107.77	78.80	61.00
		27°C	144.32	114.02	41.71	139.70	111.76	44.54	134.75	109.36	47.80	129.57	106.85	51.48	116.66	97.97	55.60	108.41	93.35	61.09
		30°C	145.08	140.50	41.78	140.34	138.05	44.61	135.52	135.46	47.87	130.46	130.46	51.57	117.88	117.88	55.75	110.36	110.36	61.34
		33°C	149.34	149.34	42.13	145.47	145.47	45.07	141.40	141.40	48.45	137.06	137.06	52.26	124.52	124.52	56.53	117.14	117.14	62.21
	22°C	27°C	157.26	91.40	42.81	152.17	89.53	45.68	146.82	87.58	48.98	141.24	85.59	52.70	127.28	78.49	56.85	118.42	74.68	62.37
		30°C	157.78	113.67	42.85	152.71	111.44	45.74	147.42	109.11	49.04	141.84	106.67	52.77	127.85	97.89	56.91	119.01	93.38	62.44
		33°C	158.53	133.50	42.92	153.42	131.22	45.81	148.07	128.85	49.11	142.46	126.38	52.85	128.39	116.38	57.00	119.53	111.54	62.53
		36°C	159.32	152.89	42.99	154.55	150.06	45.90	149.68	146.76	49.27	144.84	142.93	53.10	131.67	131.43	57.39	124.05	124.05	63.12

Model: 4FGYP500EXY1 - RCYP125EXY1 x 4

Heating Mode

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	87.880	87.880	99.465	99.465	103.327	103.327	145.805	145.805	168.975	168.975	180.560	180.560	192.145	192.145
17°C	85.576	85.576	95.991	95.991	101.205	101.205	145.631	145.631	167.629	167.629	179.351	179.351	191.073	191.073
19°C	83.272	83.272	92.516	92.516	99.084	99.084	145.457	145.457	166.283	166.283	178.142	178.142	190.001	190.001
21°C	80.969	80.969	90.162	90.162	96.963	96.963	144.044	144.044	164.937	164.937	176.933	176.933	188.928	188.928
23°C	78.665	78.665	88.929	88.929	94.841	94.841	141.392	141.392	163.592	163.592	175.724	175.724	187.856	187.856
25°C	76.361	76.361	87.696	87.696	92.720	92.720	138.740	138.740	162.246	162.246	174.515	174.515	186.784	186.784
27°C	74.057	74.057	86.463	86.463	90.599	90.599	136.088	136.088	160.900	160.900	173.306	173.306	185.712	185.712
Frost Region														

Remark:

- AFR: Air flow rate (CFM)
- EWB: Entering Wet Bulb Temp. (°C)
- EDB: Entering Dry Bulb Temp. (°C)
- TC: Total Cooling Capacity (kW)
- SC: Sensible Cooling Capacity (kW)
- PI: Power Input (kW)

Notes:

1. Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
2. ■ shows nominal capacities.
3. Direct interpolation is permissible. Do not extrapolate.
4. Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

**Model: 4FGYP600EXY1 - RCYP150EXY1 x 4**  
**Cooling Mode**

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
16200	16°C	21°C	167.98	120.07	49.48	162.66	117.42	52.88	157.00	114.62	56.83	150.93	111.63	61.32	135.82	101.91	66.35	126.17	96.41	73.06
		24°C	168.64	143.01	49.53	163.32	140.04	52.94	157.67	136.89	56.89	151.64	133.56	61.39	136.54	122.24	66.42	126.81	116.16	73.13
		27°C	169.26	164.62	49.59	164.09	161.55	53.00	158.58	158.22	56.96	152.96	152.96	61.51	138.46	138.46	66.62	129.94	129.94	73.49
		30°C	175.97	175.97	50.08	171.54	171.54	53.59	166.76	166.76	57.67	161.66	161.66	62.31	146.85	146.85	67.50	138.08	138.08	74.42
	19°C	24°C	184.56	113.43	50.73	178.83	110.96	54.19	172.68	108.34	58.18	166.16	105.58	62.72	149.69	96.51	67.78	139.17	91.59	74.54
		27°C	185.04	132.50	50.76	179.27	129.80	54.22	173.16	126.93	58.23	166.67	123.90	62.77	150.22	113.47	67.84	139.77	107.95	74.60
		30°C	185.75	161.70	50.82	179.89	158.77	54.29	173.71	155.69	58.29	167.17	152.45	62.84	150.74	140.15	67.91	140.32	134.00	74.68
		33°C	186.83	186.83	50.89	181.50	181.50	54.41	176.20	176.20	58.50	170.91	170.91	63.18	155.42	155.42	68.41	146.37	146.37	75.39
	22°C	27°C	202.50	106.57	52.11	196.09	104.21	55.64	189.44	101.79	59.69	182.42	99.25	64.27	164.53	90.81	69.39	153.18	86.26	76.19
		30°C	202.78	131.73	52.13	196.40	129.12	55.66	189.78	126.39	59.72	182.77	123.47	64.31	164.87	113.19	69.42	153.59	107.83	76.23
		33°C	203.35	153.50	52.18	196.99	150.76	55.71	190.34	147.90	59.78	183.33	144.91	64.37	165.40	133.28	69.49	154.12	127.52	76.30
		36°C	203.93	174.79	52.22	197.57	172.02	55.77	190.84	169.11	59.83	183.87	166.12	64.43	166.05	153.03	69.56	155.47	145.84	76.47
18000	16°C	21°C	171.52	124.90	49.75	166.02	122.24	53.15	160.10	119.31	57.10	153.85	116.07	61.60	138.46	105.86	66.62	128.50	100.05	73.32
		24°C	172.41	148.89	49.82	166.92	145.86	53.23	161.05	142.64	57.18	154.79	139.23	61.68	139.31	127.51	66.71	129.25	121.24	73.42
		27°C	173.61	172.61	49.90	168.46	168.46	53.35	163.19	163.19	57.37	157.92	157.92	61.96	143.22	143.22	67.11	134.35	134.35	73.99
		30°C	182.61	182.61	50.58	177.91	177.91	54.11	172.86	172.86	58.21	167.48	167.48	62.85	152.06	152.06	68.05	142.89	142.89	74.98
	19°C	24°C	188.32	117.90	51.01	182.37	115.42	54.47	175.96	112.76	58.48	169.20	109.99	63.01	152.36	100.63	68.08	141.67	95.58	74.82
		27°C	189.04	138.00	51.07	183.07	135.23	54.54	176.71	132.28	58.54	169.99	129.19	63.08	153.12	118.39	68.15	142.40	112.73	74.90
		30°C	189.89	169.27	51.14	183.83	166.28	54.61	177.41	163.13	58.62	170.74	159.88	63.16	153.92	146.95	68.24	143.54	139.76	75.06
		33°C	192.87	192.87	51.35	187.94	187.94	54.95	182.74	182.74	59.09	177.21	177.21	63.77	161.07	161.07	69.02	151.60	151.60	76.01
	22°C	27°C	206.40	110.68	52.41	199.79	108.33	55.95	192.90	105.90	60.01	185.60	103.34	64.59	167.33	94.65	69.69	155.75	90.06	76.49
		30°C	206.89	137.46	52.45	200.30	134.72	55.99	193.43	131.87	60.05	186.17	128.88	64.64	167.88	118.20	69.75	156.35	112.68	76.55
		33°C	207.69	160.76	52.52	201.11	157.96	56.07	194.18	155.03	60.13	186.89	151.98	64.72	168.55	139.88	69.84	156.98	133.96	76.65
		36°C	208.41	183.79	52.58	201.80	180.96	56.13	194.99	177.73	60.21	188.24	173.96	64.85	170.63	160.81	70.06	160.44	153.33	77.07
19800	16°C	21°C	174.56	128.30	49.97	168.84	125.33	53.38	162.80	122.16	57.33	156.43	118.81	61.83	140.69	108.32	66.85	130.50	102.38	73.56
		24°C	175.69	152.90	50.06	169.97	149.82	53.47	163.92	146.57	57.43	157.48	143.13	61.93	141.61	131.12	66.96	131.40	124.81	73.66
		27°C	178.14	178.14	50.23	173.18	173.18	53.73	168.09	168.09	57.78	162.62	162.62	62.40	147.41	147.41	67.55	138.21	138.21	74.43
		30°C	188.48	188.48	51.02	183.50	183.50	54.58	178.22	178.22	58.68	172.59	172.59	63.33	156.63	156.63	68.54	147.11	147.11	75.47
	19°C	24°C	191.47	123.38	51.26	185.29	120.85	54.72	178.72	118.17	58.72	171.78	115.29	63.26	154.66	105.35	68.31	143.69	99.82	75.06
		27°C	192.44	144.42	51.33	186.28	141.57	54.80	179.68	138.52	58.81	172.77	135.35	63.35	155.55	124.10	68.42	144.55	118.25	75.17
		30°C	193.44	177.97	51.41	187.13	174.87	54.89	180.70	171.58	58.91	173.95	167.88	63.46	157.18	153.50	68.60	147.14	144.94	75.48
		33°C	199.12	199.12	51.85	193.96	193.96	55.45	188.53	188.53	59.61	182.75	182.75	64.31	166.03	166.03	69.56	156.18	156.18	76.55
	22°C	27°C	209.68	115.78	52.67	202.90	113.41	56.21	195.76	110.93	60.27	188.32	108.41	64.85	169.71	99.42	69.95	157.89	94.60	76.74
		30°C	210.38	143.99	52.73	203.62	141.16	56.28	196.56	138.21	60.34	189.13	135.12	64.93	170.47	123.99	70.03	158.68	118.28	76.83
		33°C	211.38	169.10	52.81	204.56	166.22	56.36	197.44	163.22	60.43	189.95	160.08	65.03	171.20	147.41	70.13	159.37	141.28	76.94
		36°C	212.44	193.66	52.90	206.07	190.08	56.49	199.58	185.90	60.63	193.13	181.05	65.34	175.57	166.48	70.62	165.41	158.08	77.67

**Model: 4FGYP600EXY1 - RCYP150EXY1 x 4**  
**Heating Mode**

ID DB	Outdoor WB													
	-9°C		-6°C		-5°C		6°C		12°C		15°C		18°C	
	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)	TC(kW)	SC(kW)
15°C	106.306	106.306	120.320	120.320	124.991	124.991	176.376	176.376	204.404	204.404	218.418	218.418	232.432	232.432
17°C	103.519	103.519	118.774	118.774	122.811	122.811	176.166	176.166	204.802	204.802	219.271	219.271	233.739	233.739
19°C	100.732	100.732	117.227	117.227	120.631	120.631	175.955	175.955	205.199	205.199	220.123	220.123	235.047	235.047
21°C	97.945	97.945	115.007	115.007	118.450	118.450	175.486	175.486	205.596	205.596	220.975	220.975	236.354	236.354
23°C	95.159	95.159	112.114	112.114	116.270	116.270	174.758	174.758	205.994	205.994	221.827	221.827	237.661	237.661
25°C	92.372	92.372	109.221	109.221	114.090	114.090	174.030	174.030	206.391	206.391	222.679	222.679	238.968	238.968
27°C	89.585	89.585	106.328	106.328	111.909	111.909	173.302	173.302	206.788	206.788	223.532	223.532	240.275	240.275
Frost Region														

**Remark:**

AFR: Air flow rate (CFM)  
EWB: Entering Wet Bulb Temp. (°C)  
EDB: Entering Dry Bulb Temp. (°C)  
TC: Total Cooling Capacity (kW)  
SC: Sensible Cooling Capacity (kW)  
PI: Power Input (kW)

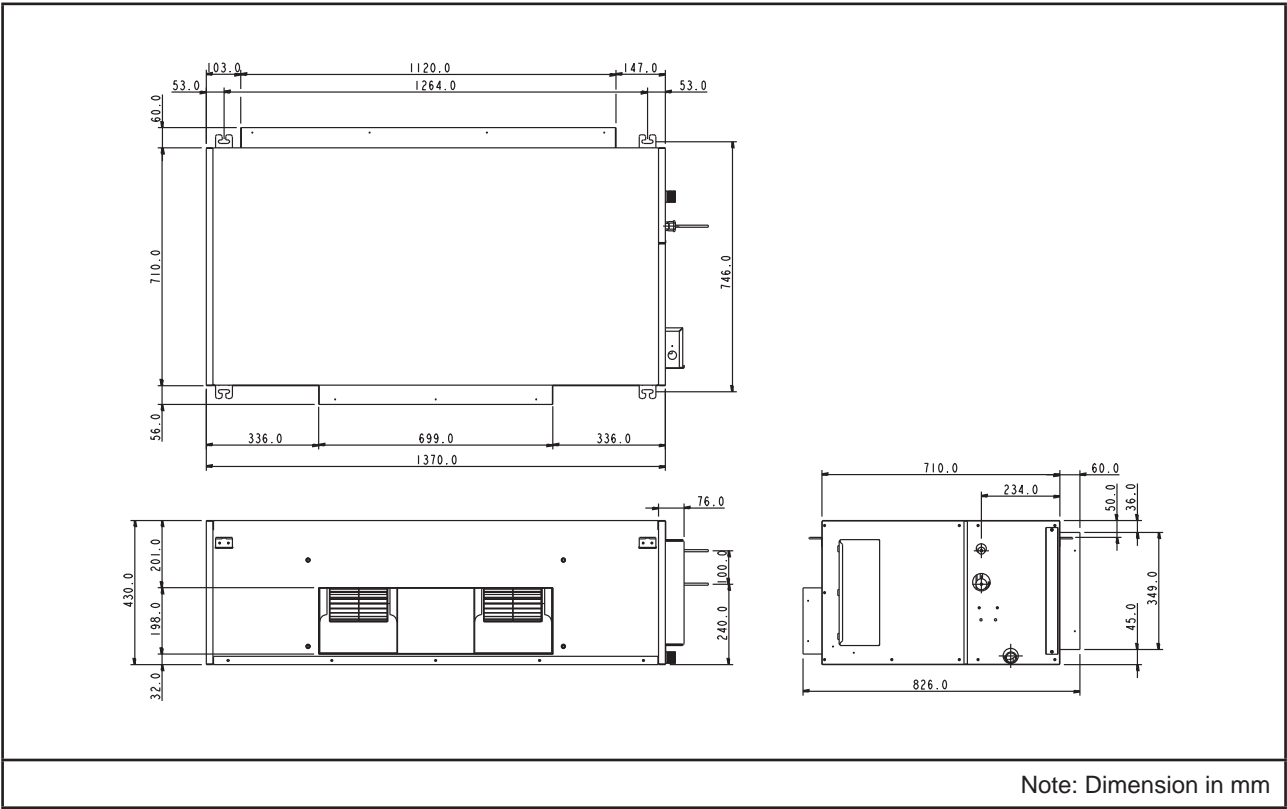
**Notes:**

- Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
- shows nominal capacities.
- Direct interpolation is permissible. Do not extrapolate.
- Unit is able to operate at ambient from 19°C to 46°C DB (cooling) / -9°C to 18°C WB (heating) without pressure trip.

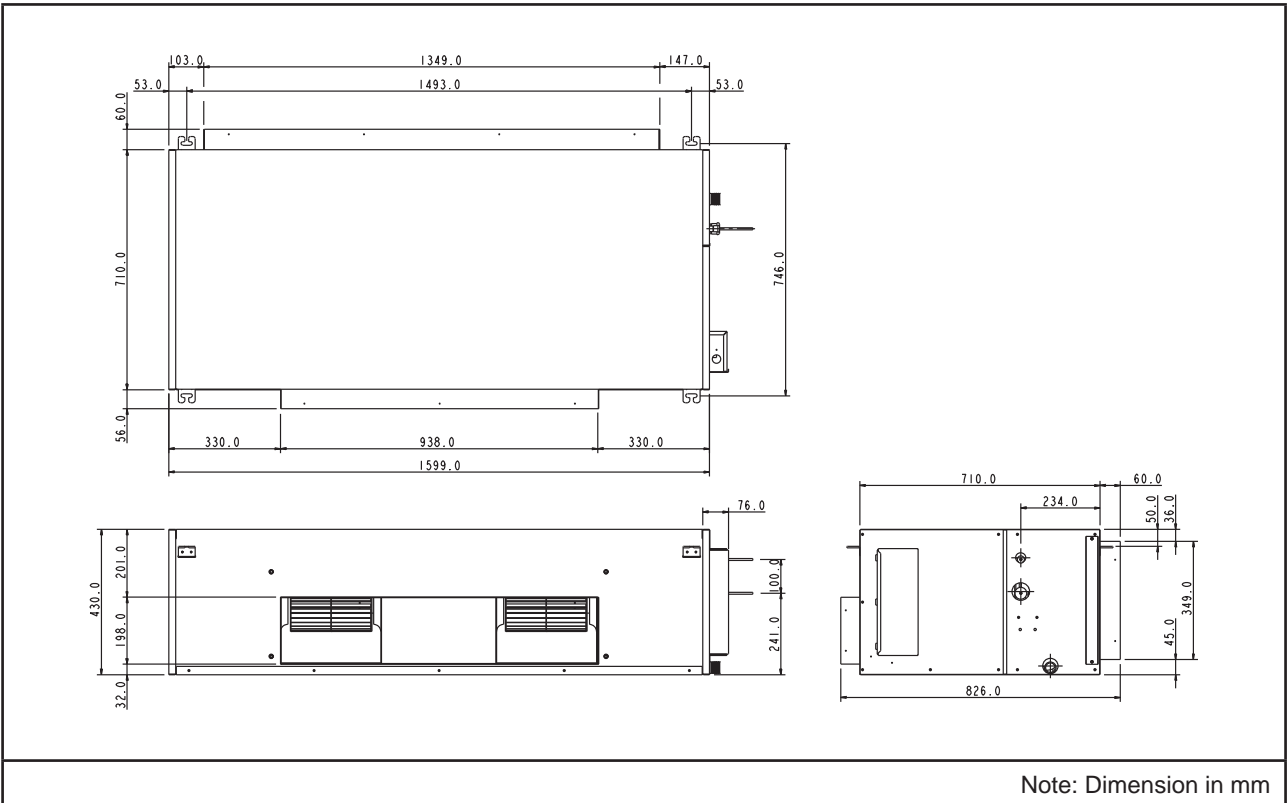
# Outlines & Dimensions

## Indoor Unit

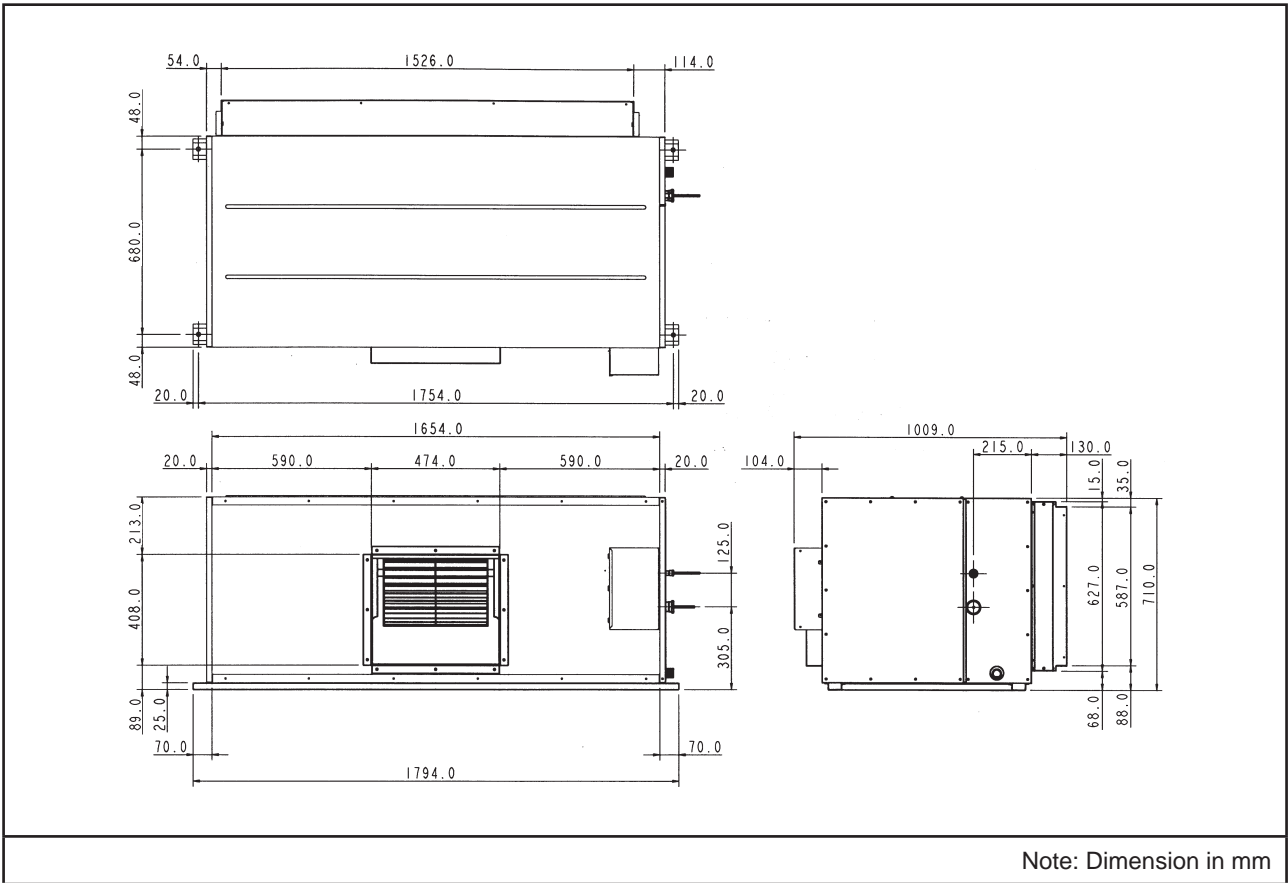
Model: FD(Y)MP75DXV1



Model: FD(Y)MP100DXV1

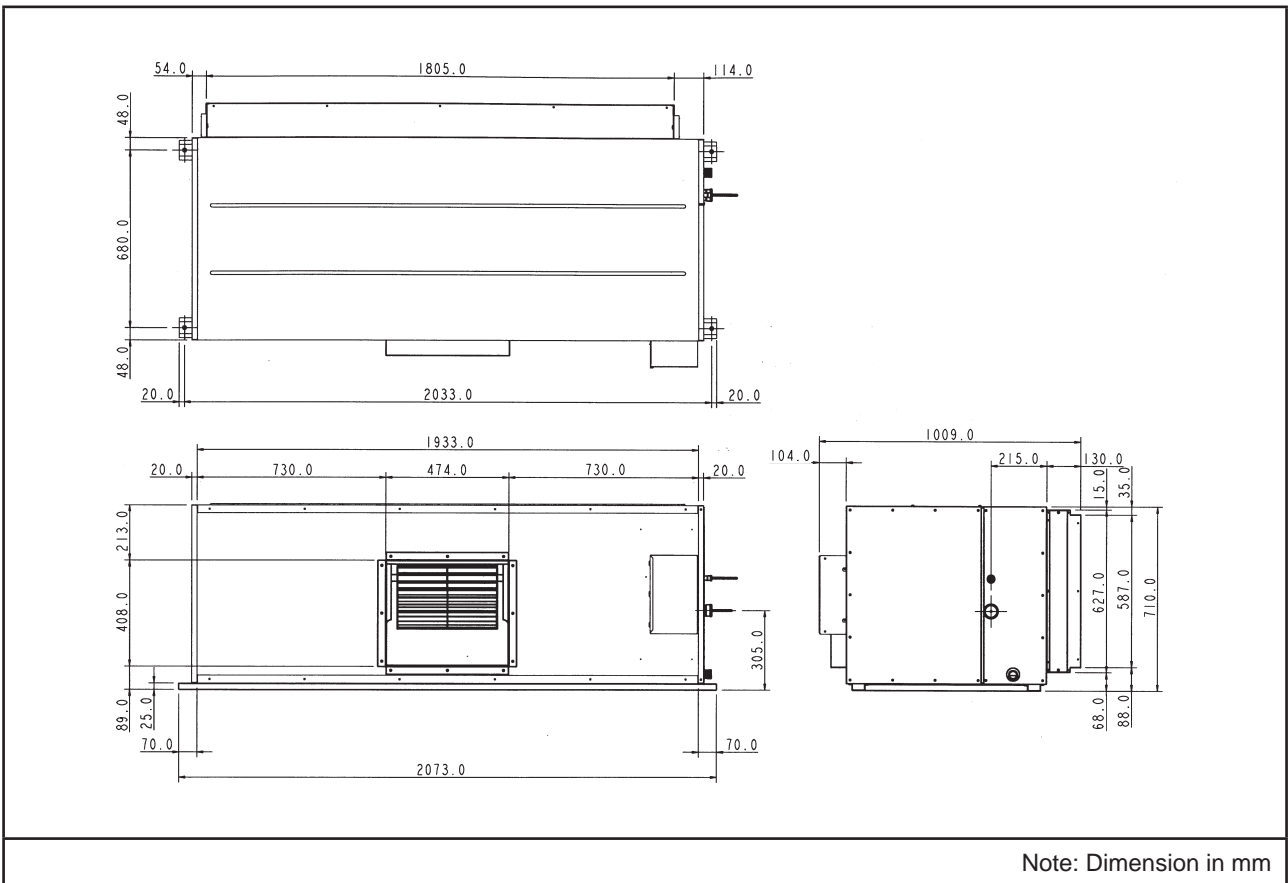


**Model: FDP125DXY1**



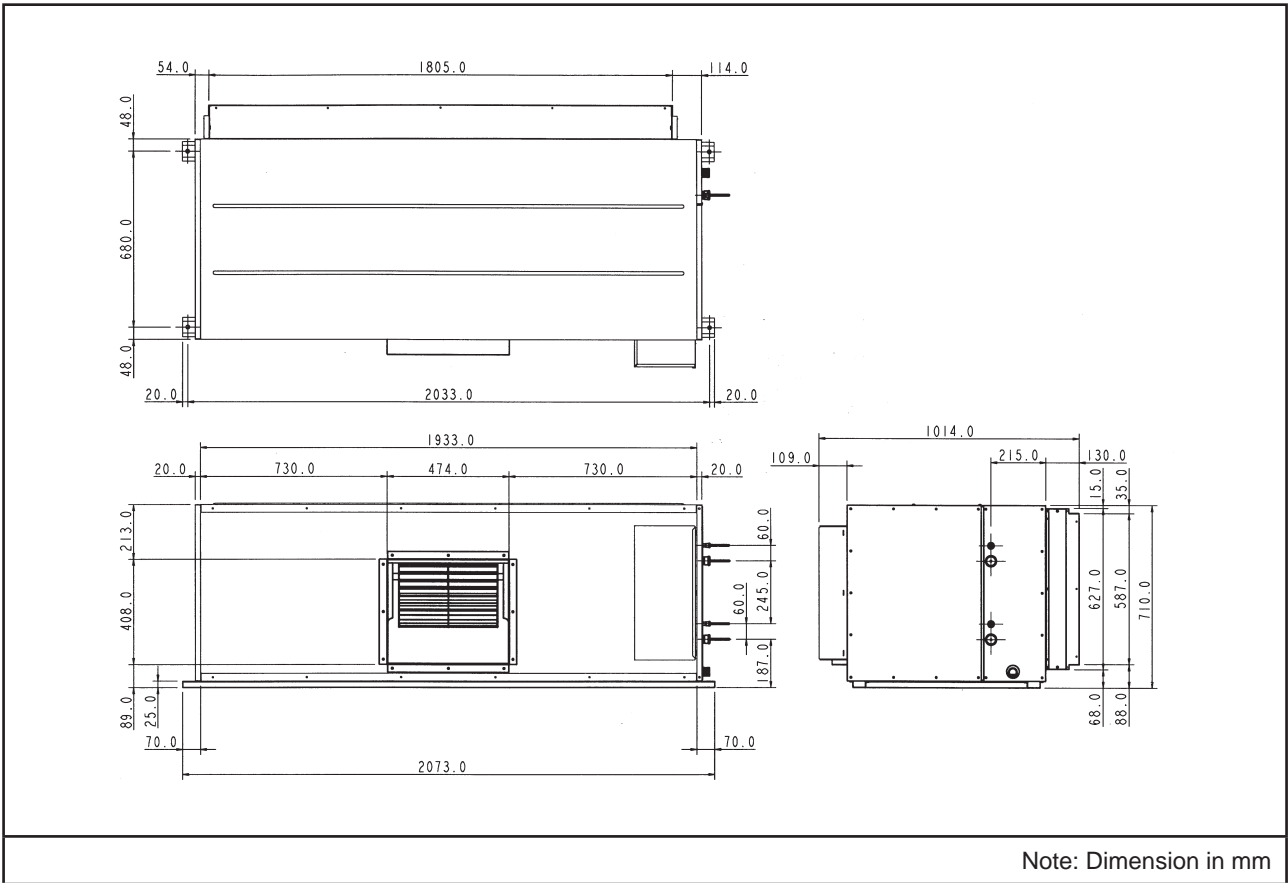
Note: Dimension in mm

**Model: FDP150DXY1**

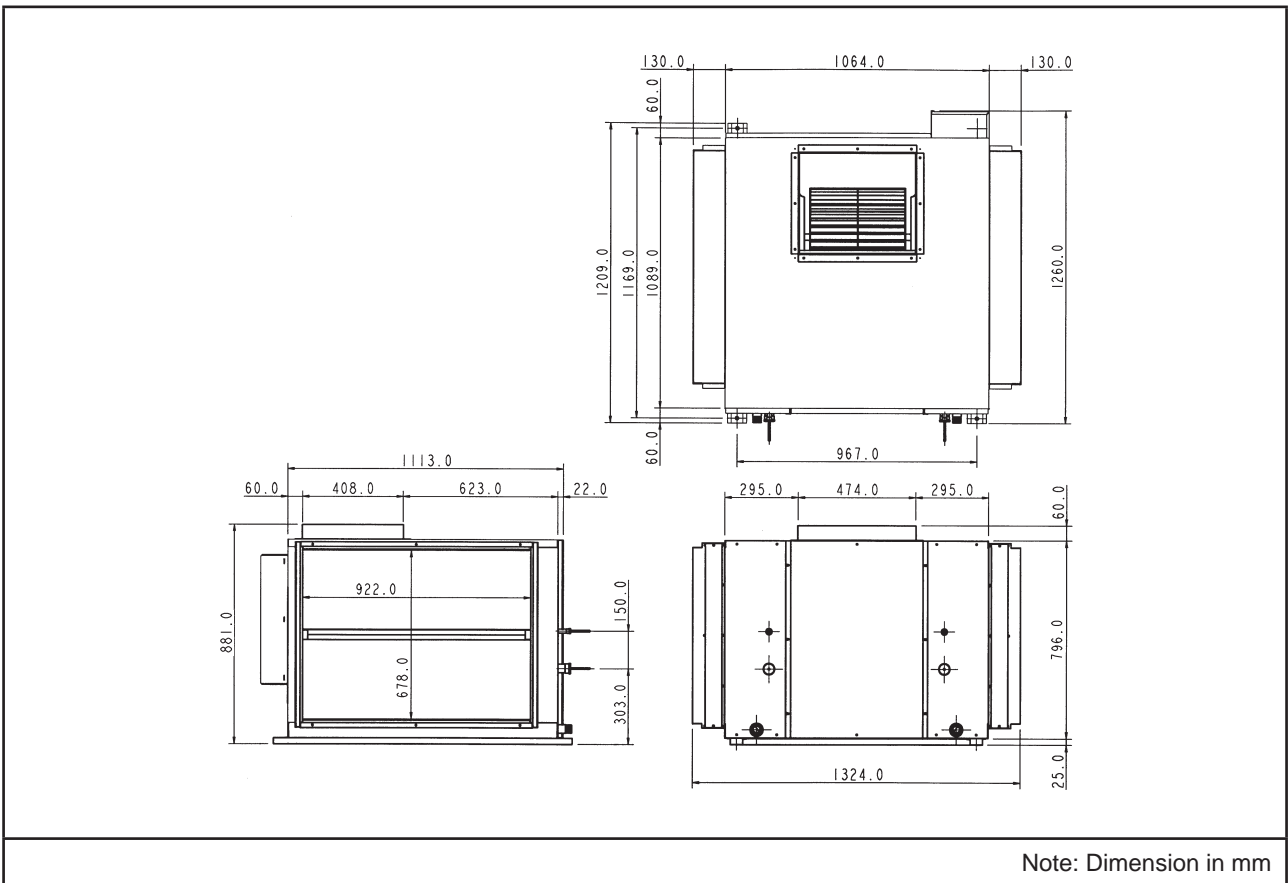


Note: Dimension in mm

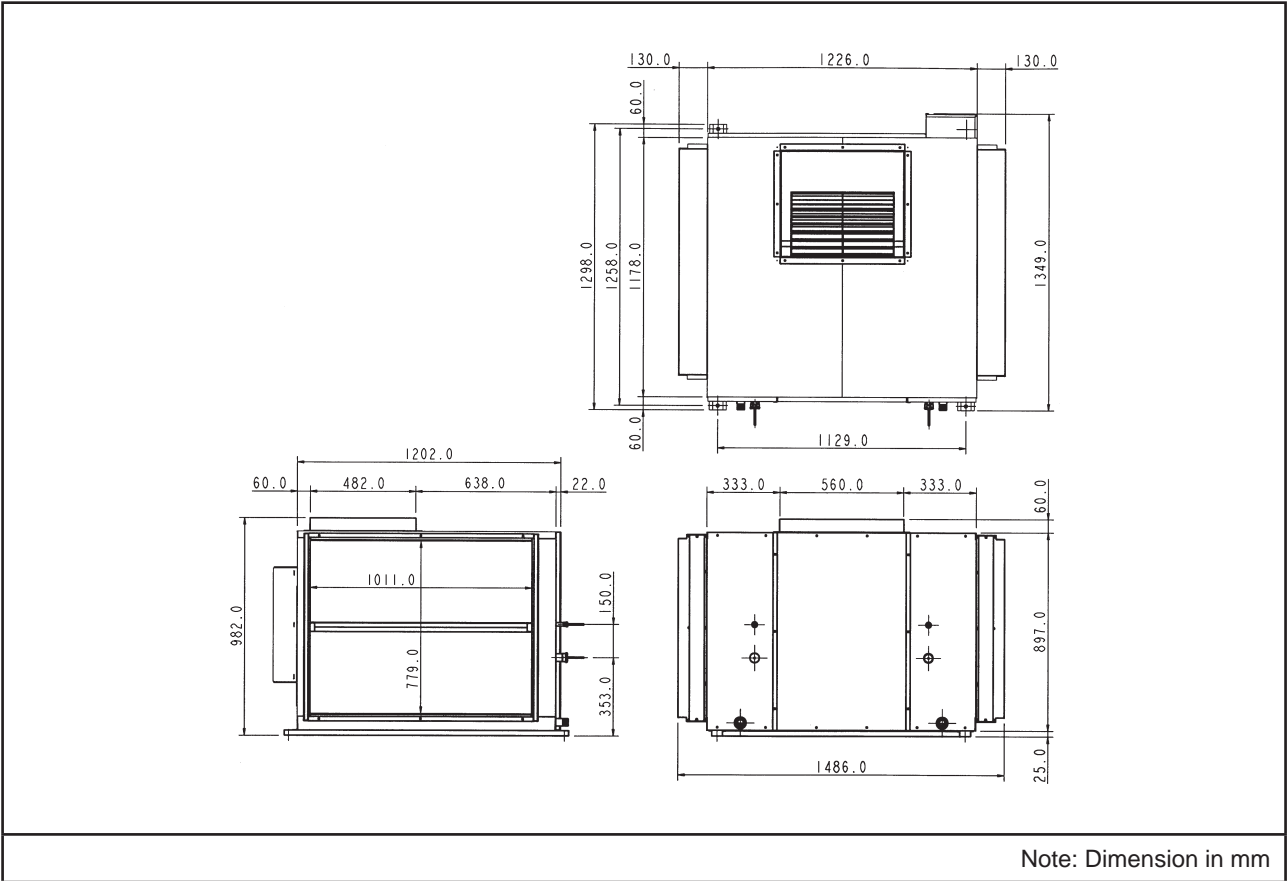
**Model: 2FDP150DXY1**



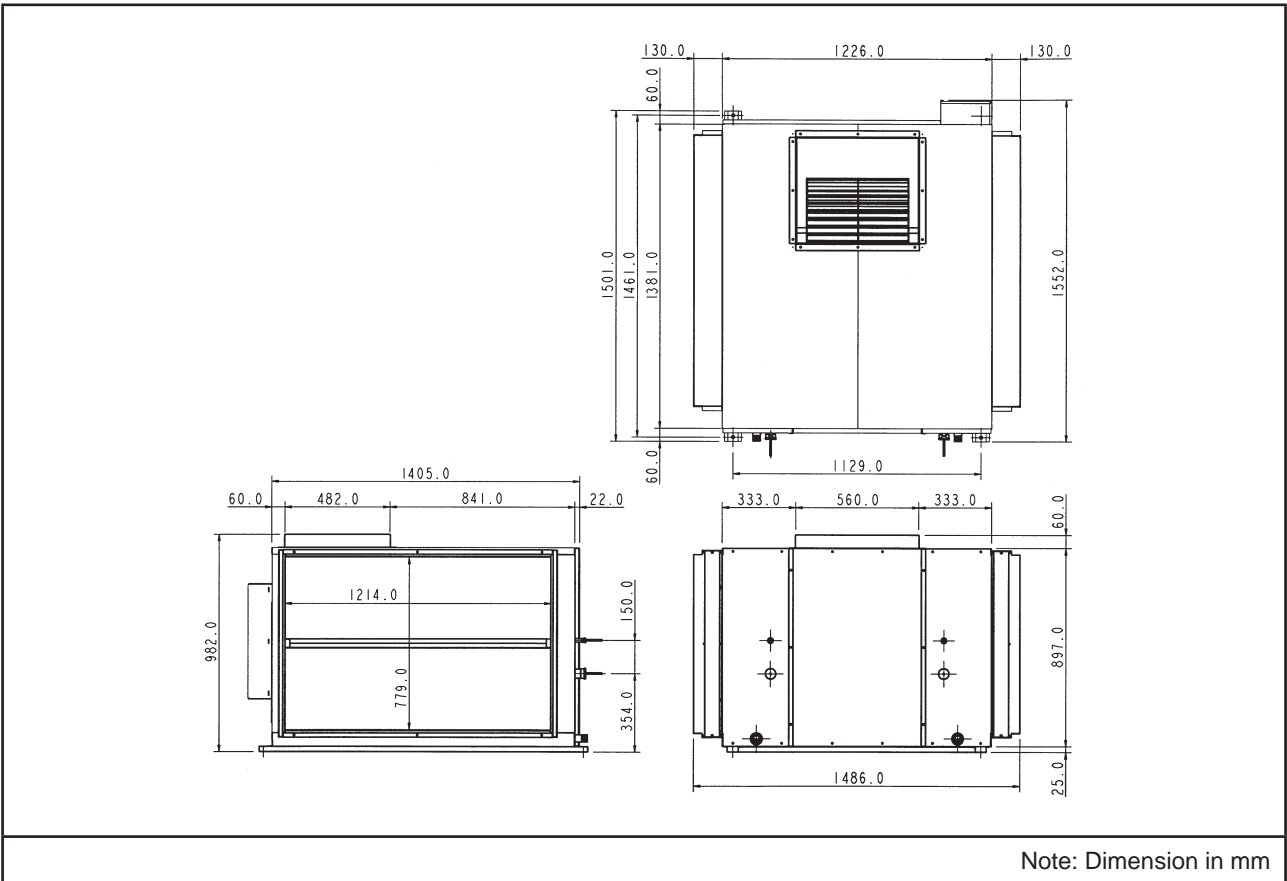
**Model: 2FDP200DXY1**



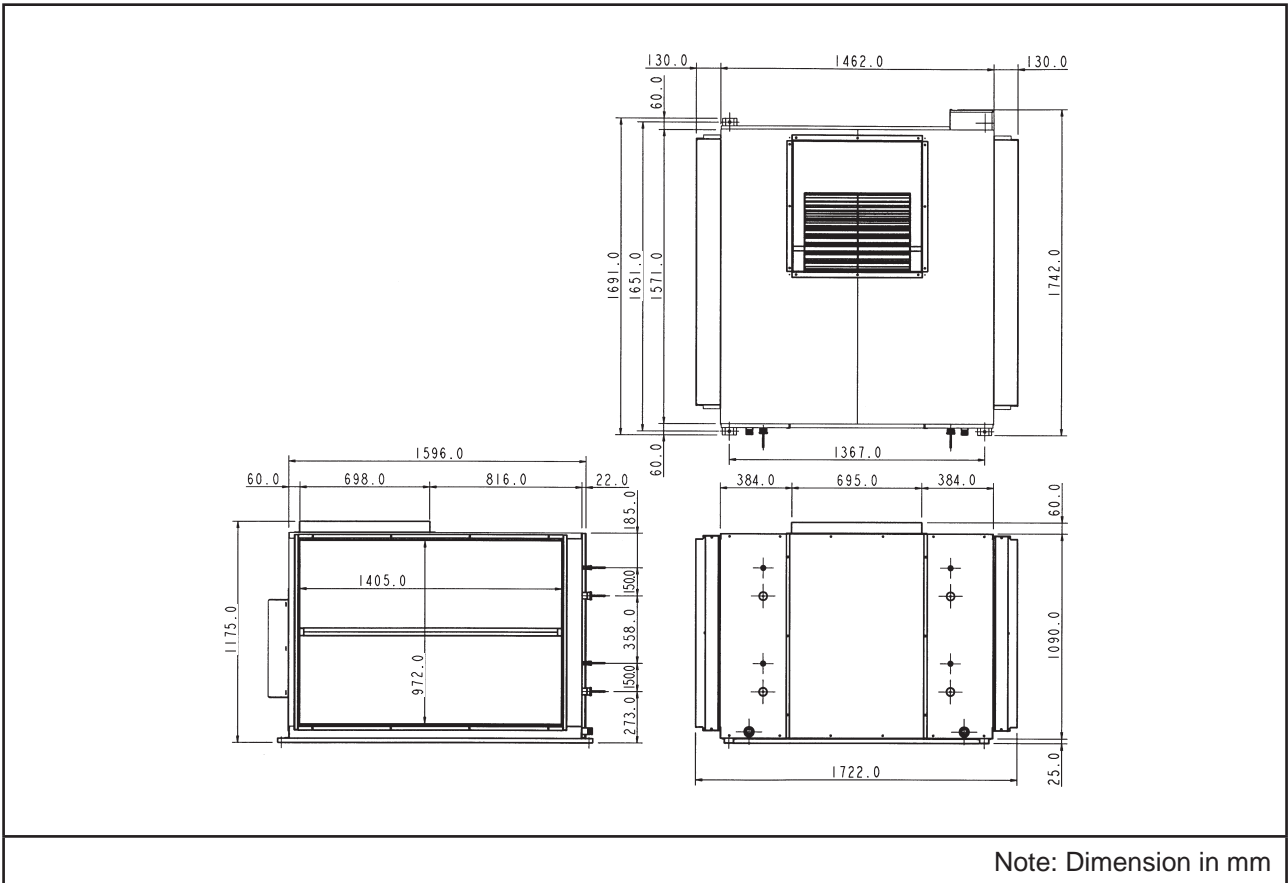
**Model: 2FGP250DXY1**



**Model: 2FGP300DXY1**

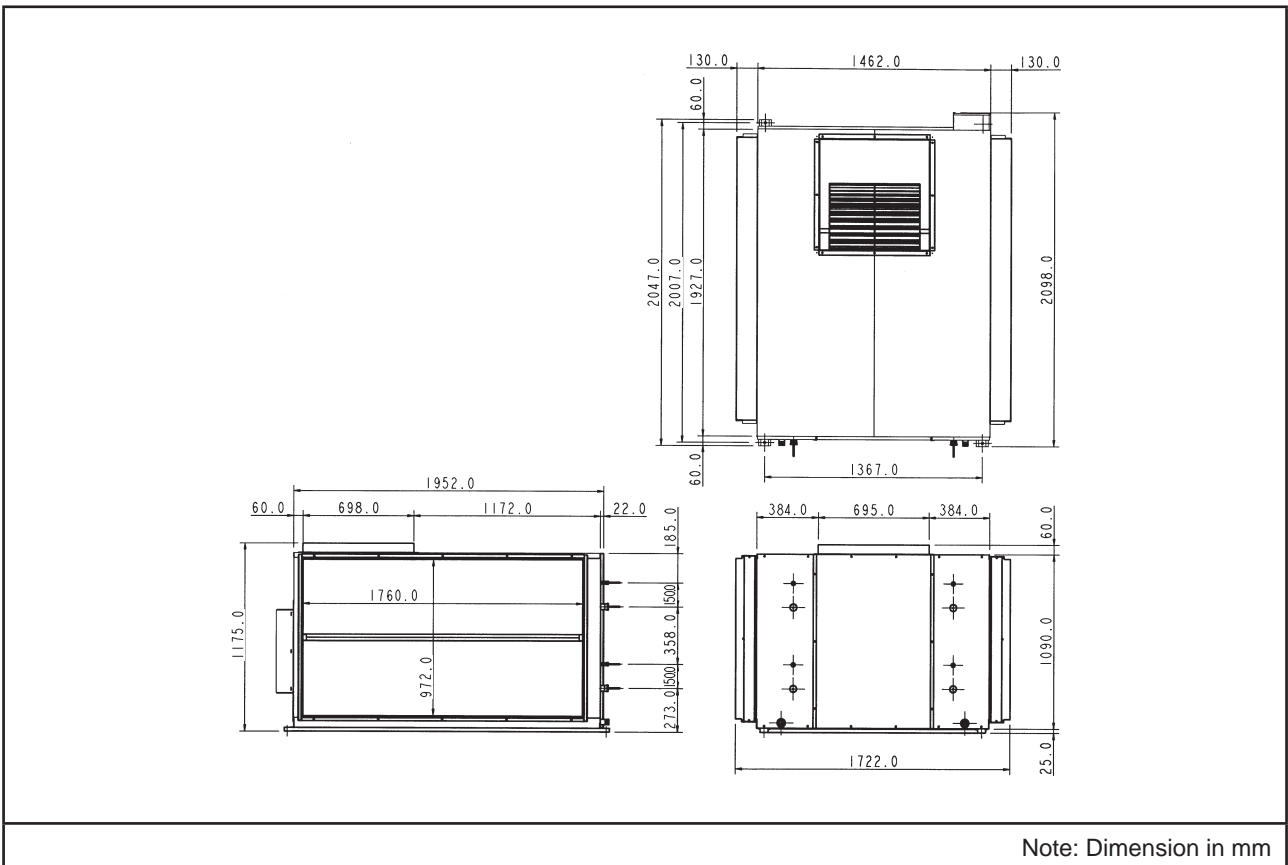


**Model: 4FGP400DXY1**



Note: Dimension in mm

**Model: 4FGP500DXY1**

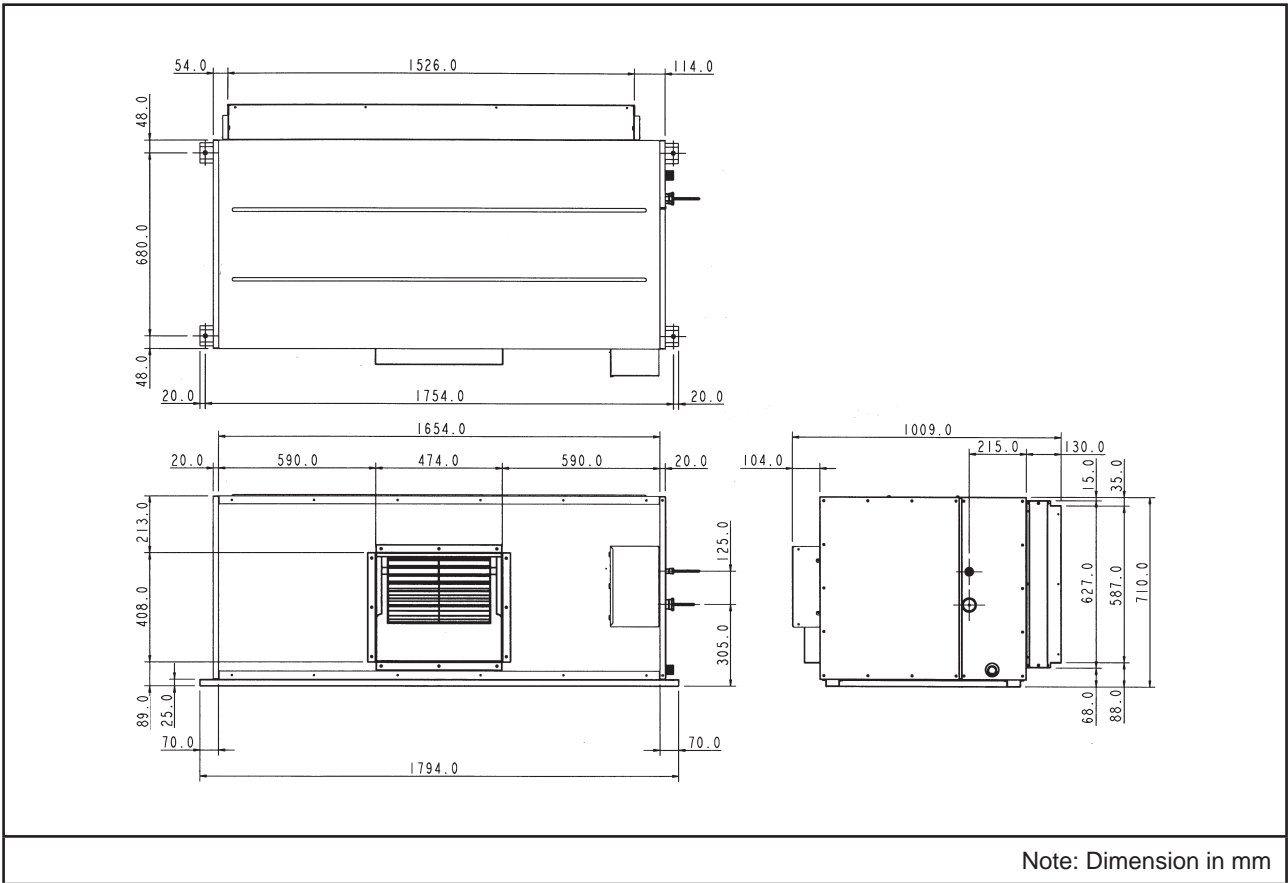


Note: Dimension in mm

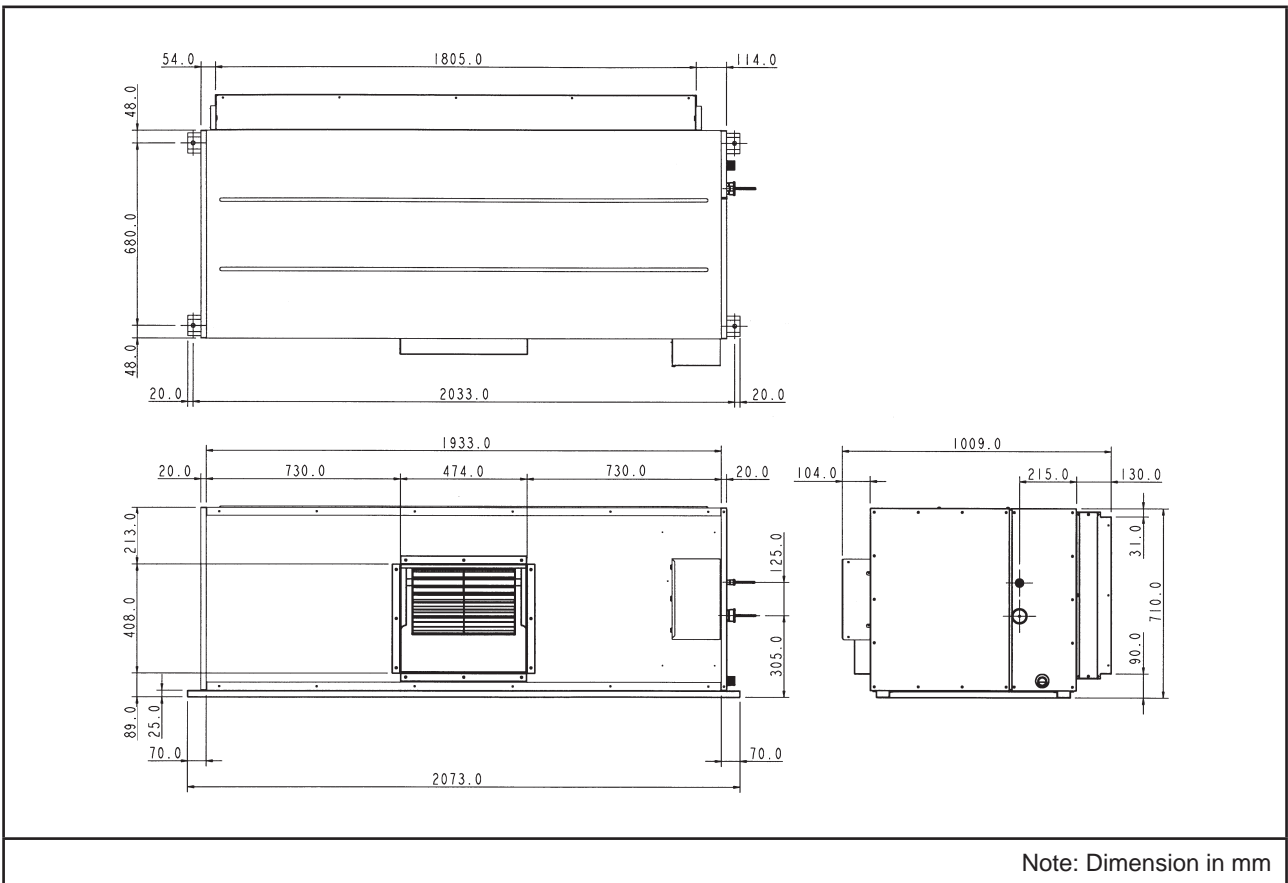
**Note:**

2FDP200DXY1 ~ 4FGP500DXY1 models are available in vertical air discharge as standard; Convertible at field.

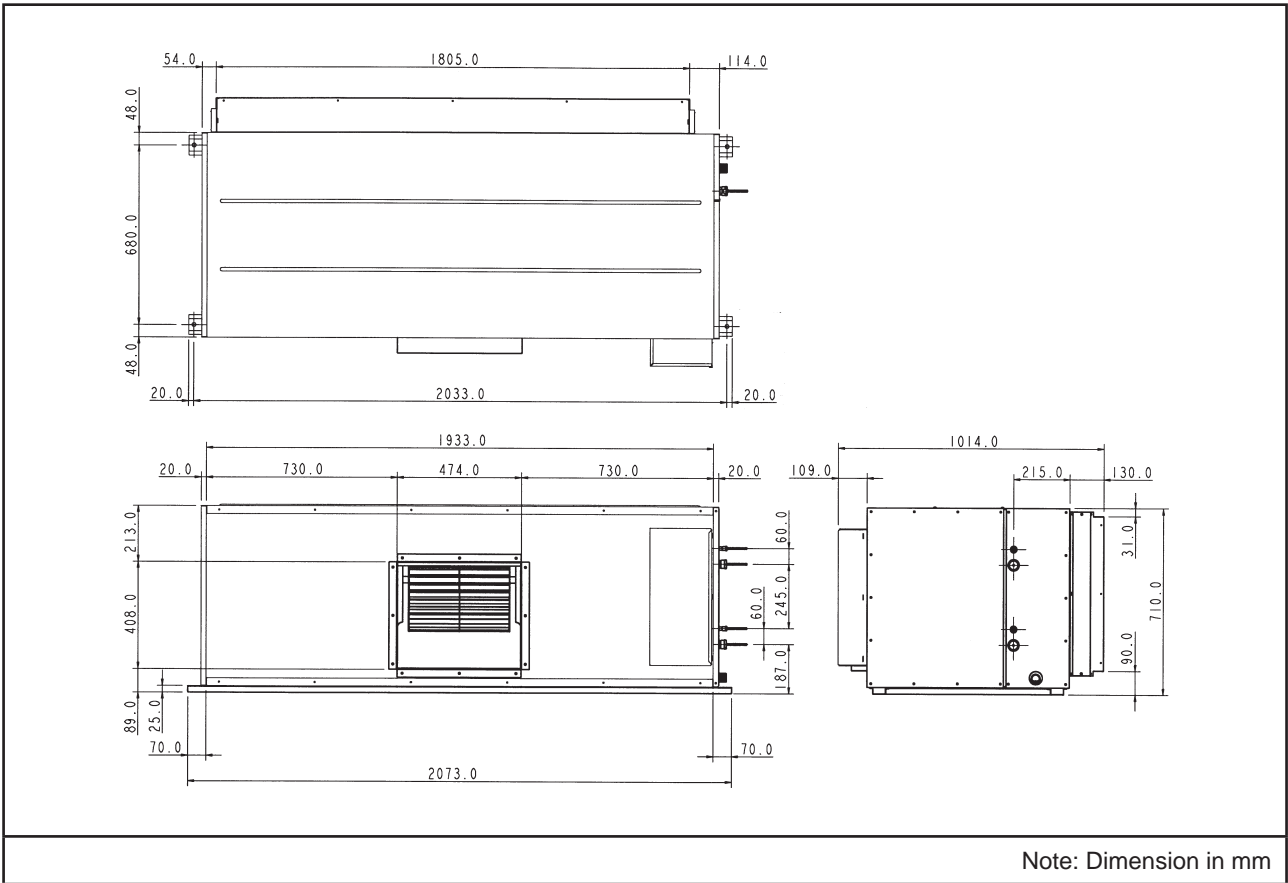
**Model: FDYP125EXY1**



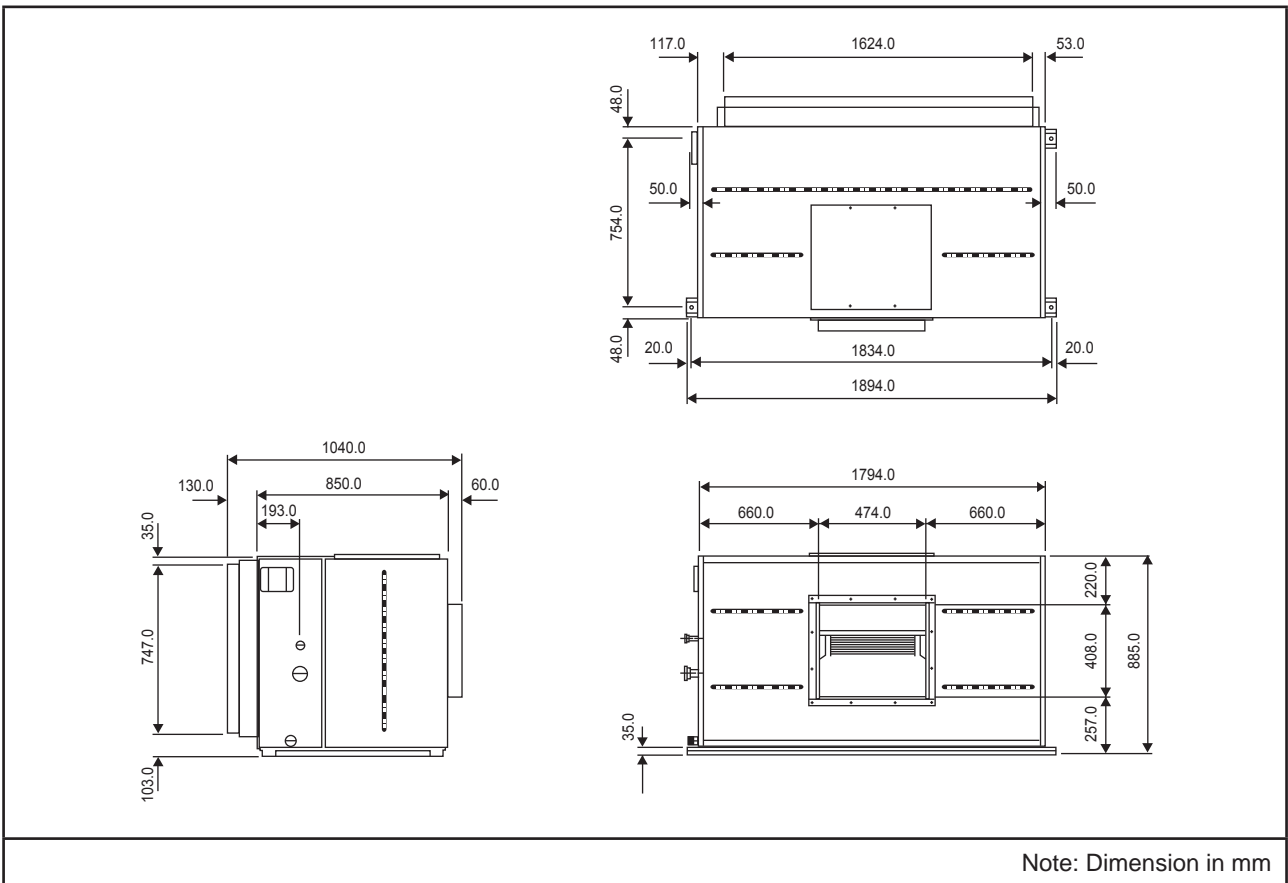
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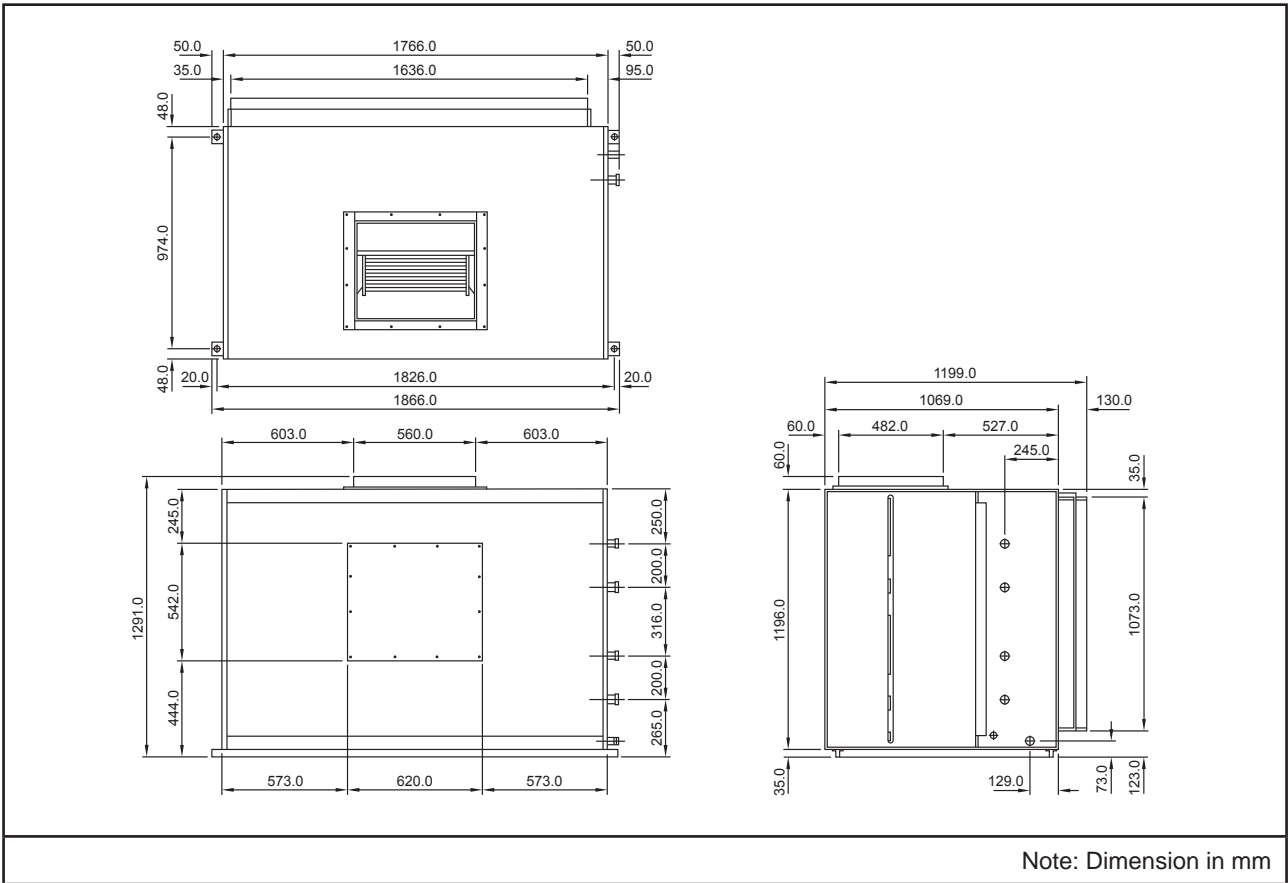
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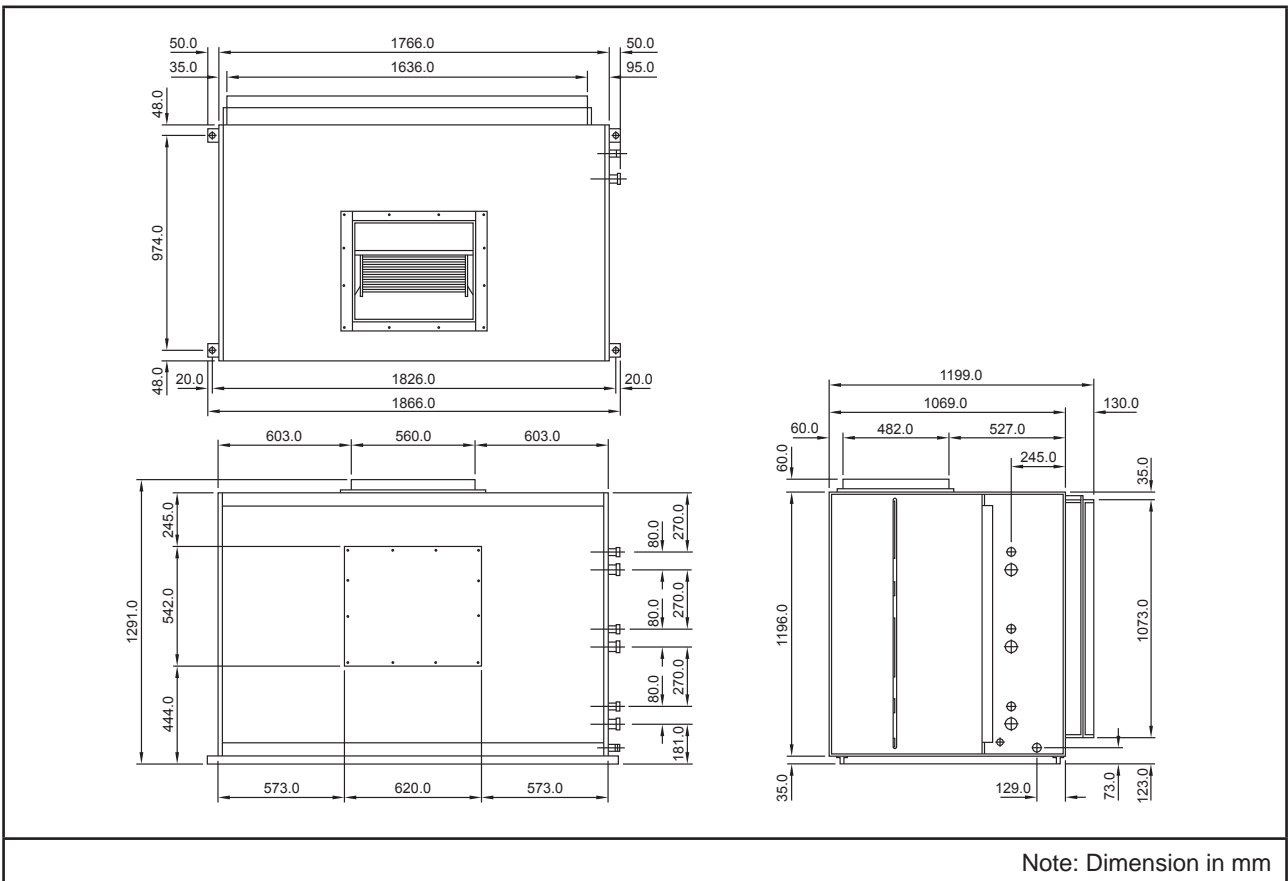
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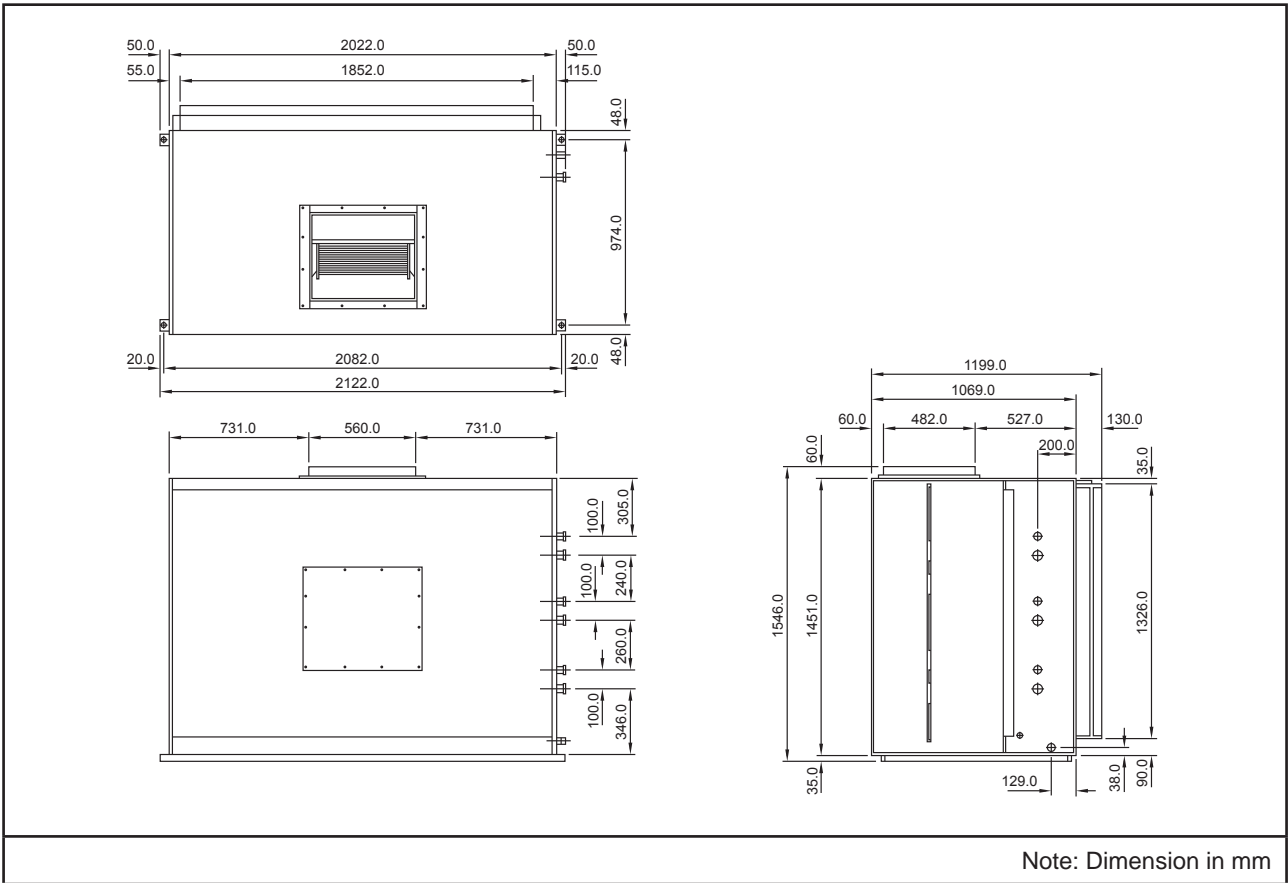
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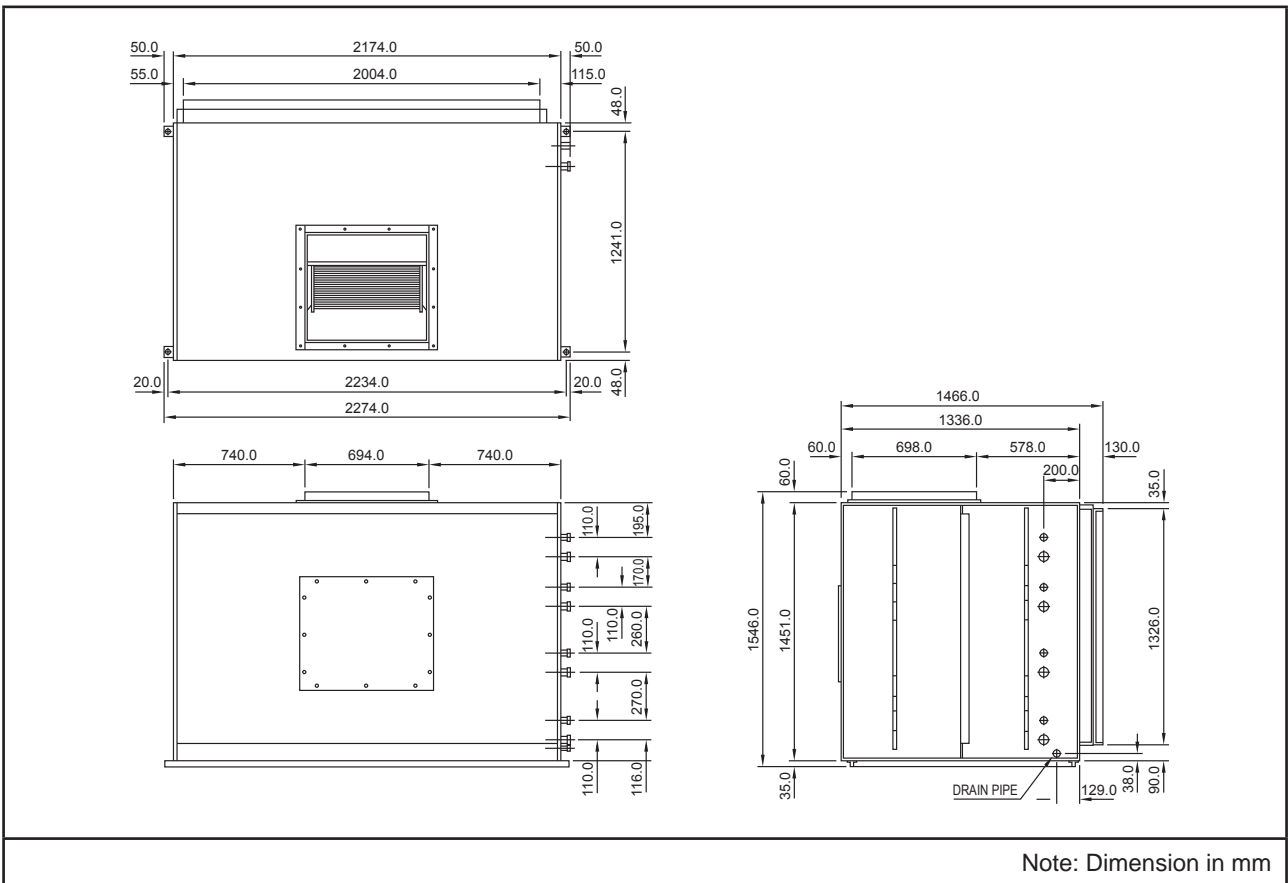
**Model: 3FGYP300EXY1**



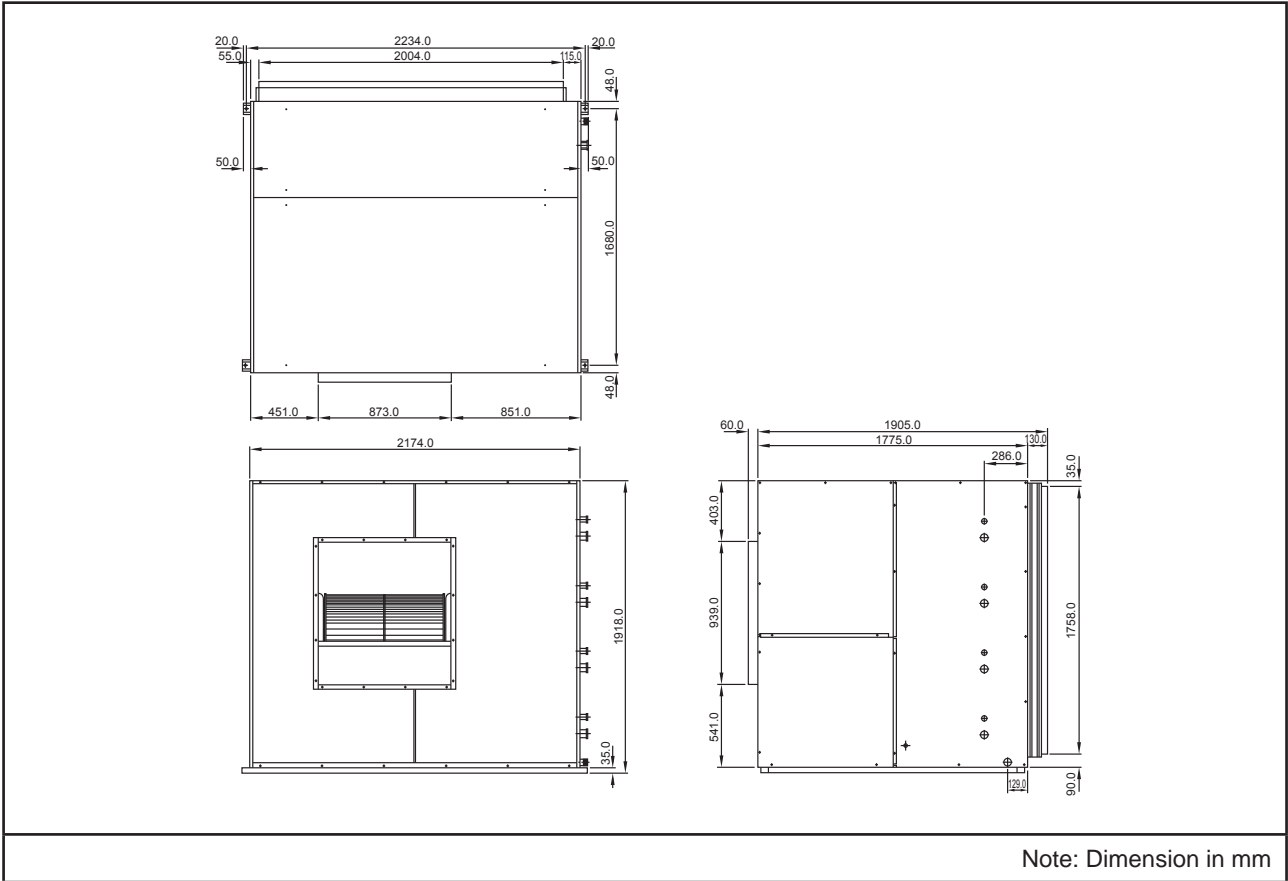
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**Model: 4FGYP400/500EXY1 / 3FGYP450EXY1**



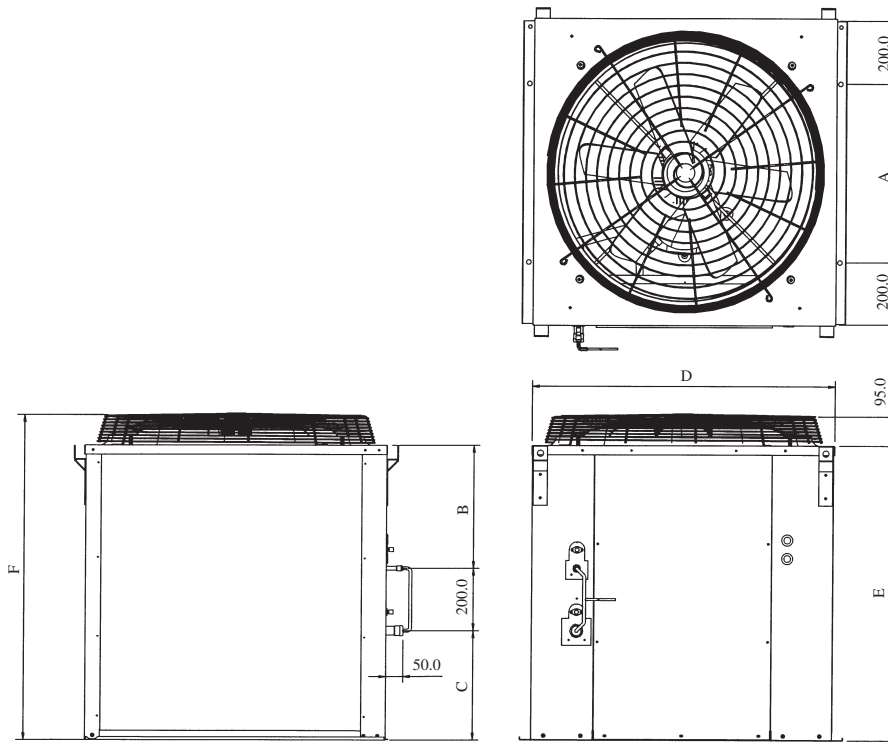
Model: 4FGYP600EXY1



Note: Dimension in mm

## Outdoor Unit

Model: RCP75/100/125/150DXY1 / RCYP75/100/125/150EXY1



Model	Dimension	A	B	C	D	E	F
RCP75/100DXY1 / RCYP75/100EXY1		571.0	396.0	350.0	981.0	946.0	1041.0
RCP125DXY1 / RCYP125EXY1		673.0	396.0	350.0	1083.0	946.0	1041.0
RCP150DXY1 / RCYP150EXY1		673.0	493.0	354.0	1083.0	1047.0	1142.0

Note: Dimension in mm

# Wiring Diagrams

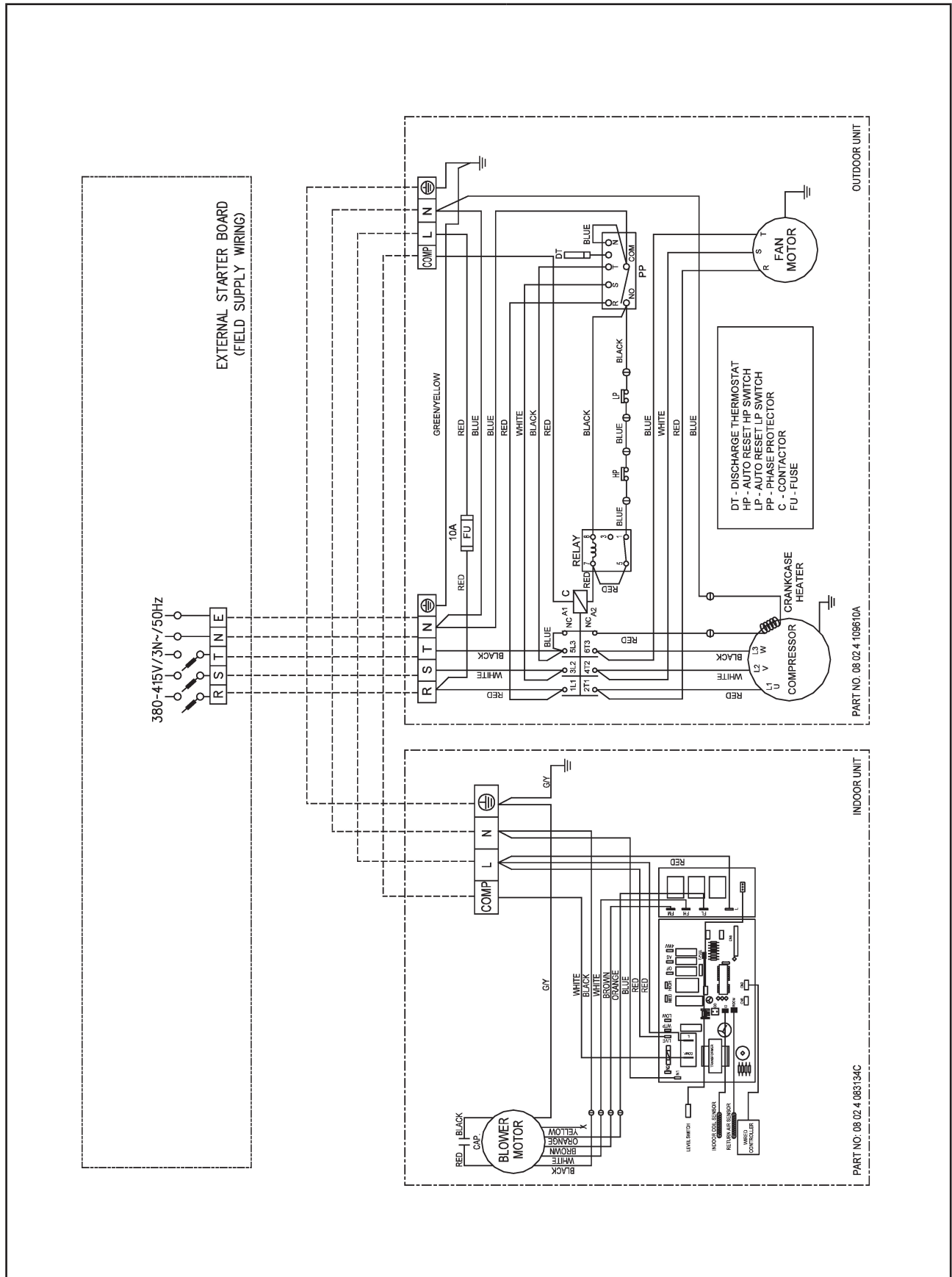
## Cooling Only

Indoor Unit

Model: FDMP75/100DXV1

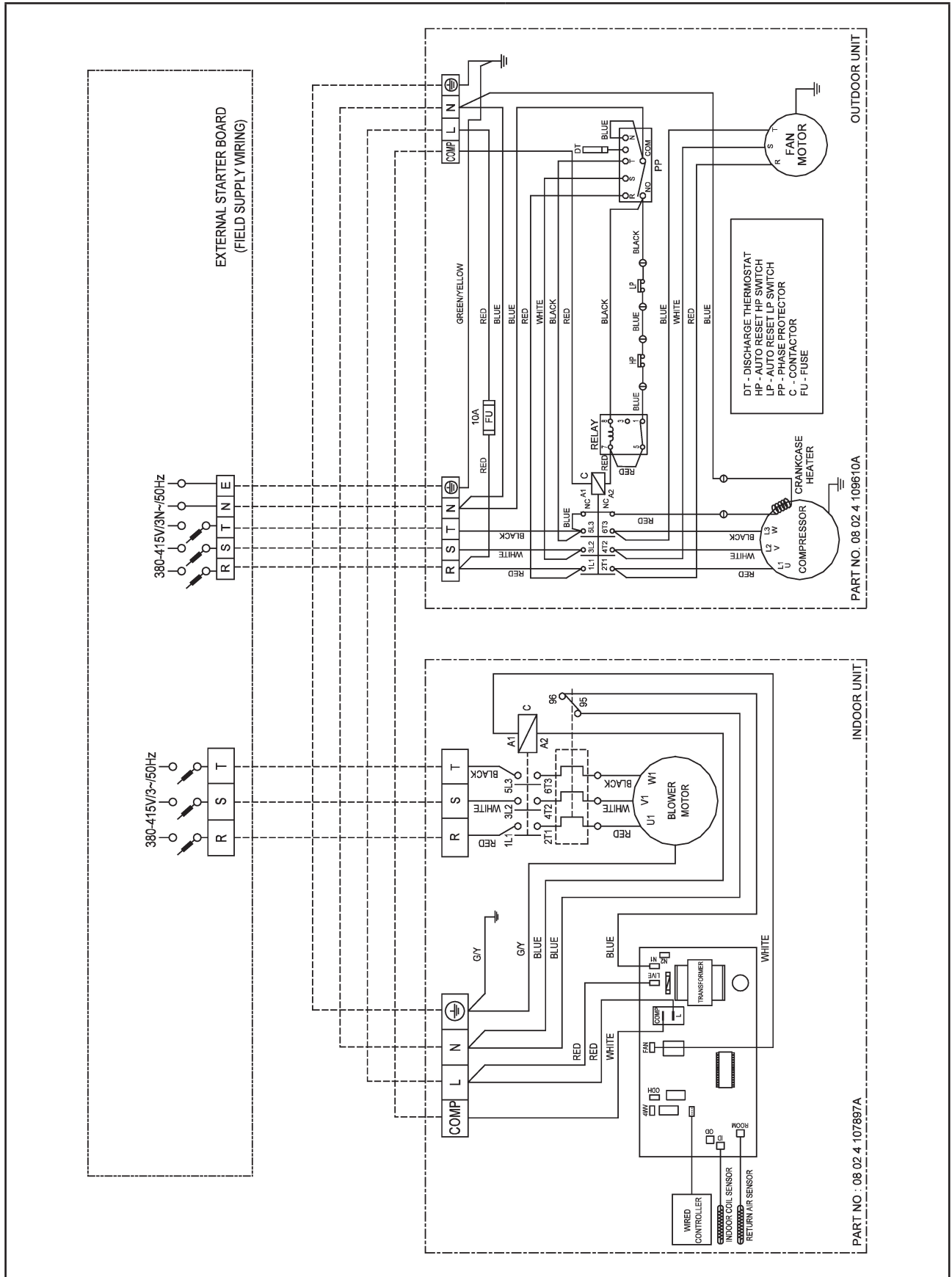
Outdoor Unit

Model: RCP75/100DXY1



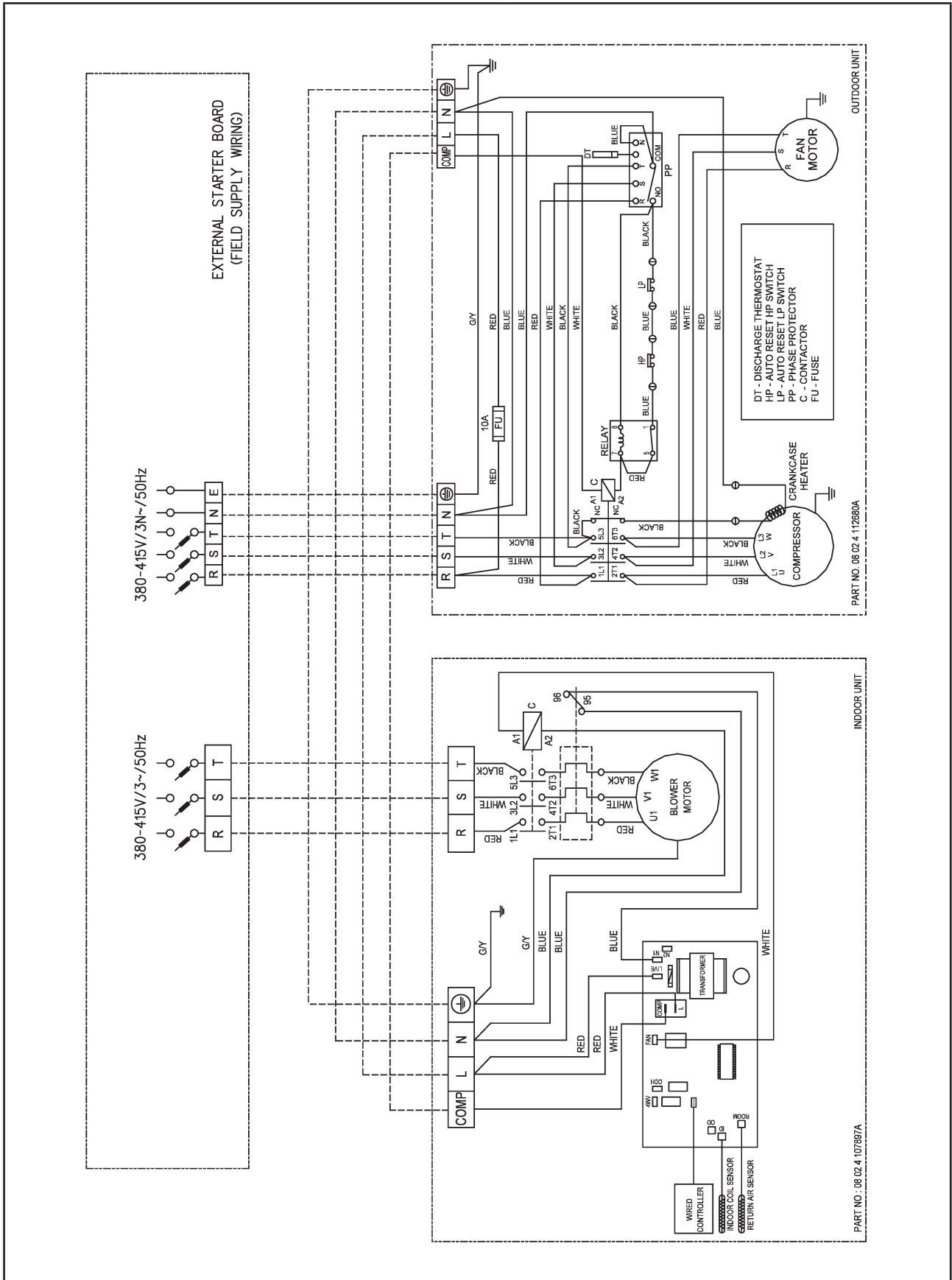
**Indoor Unit**  
**Model: FDP125DXY1**

**Outdoor Unit**  
**Model: RCP125DXY1**



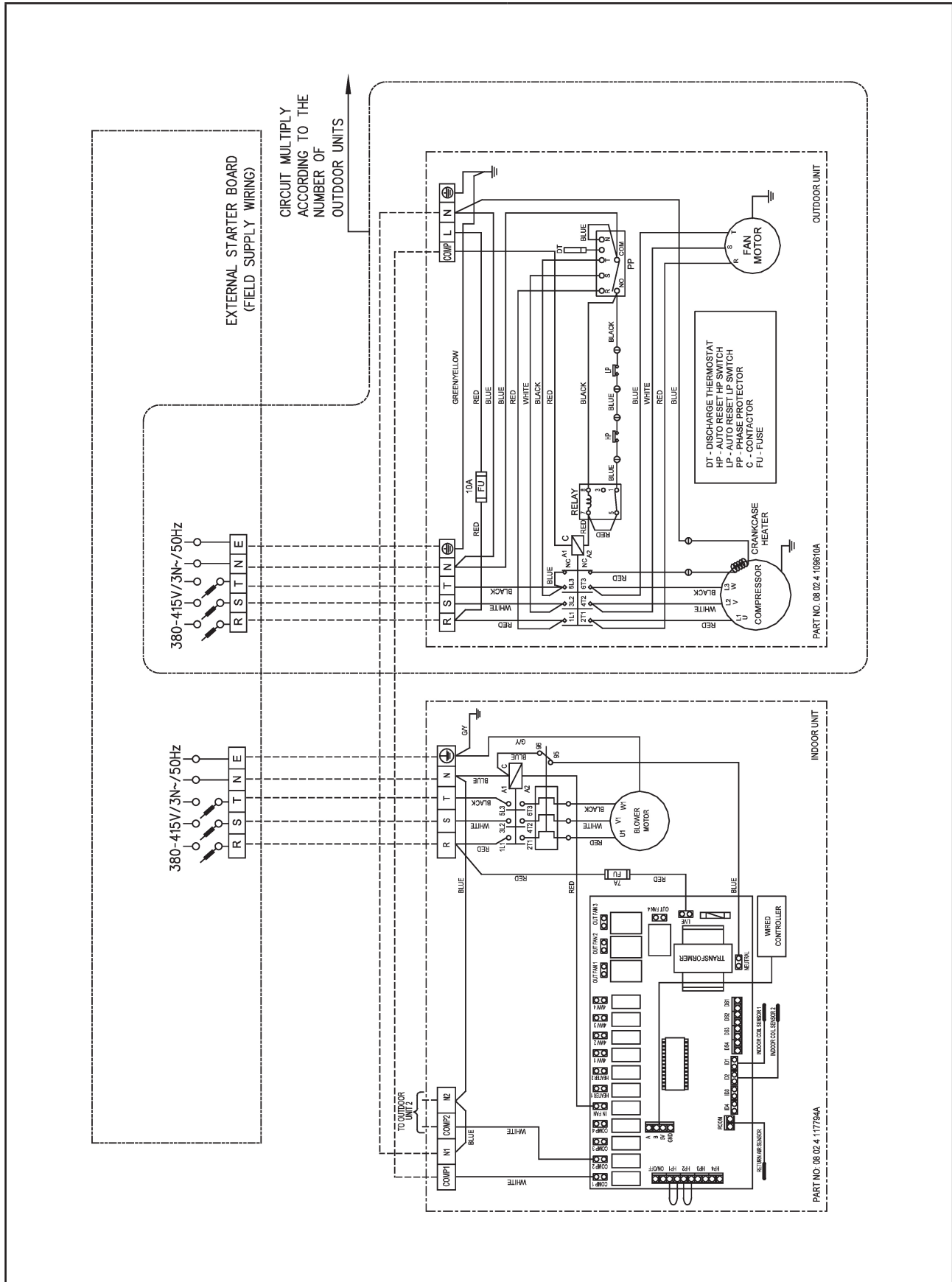
**Indoor Unit**  
**Model: FDP150DXY1**

**Outdoor Unit**  
**Model: RCP150DXY1**



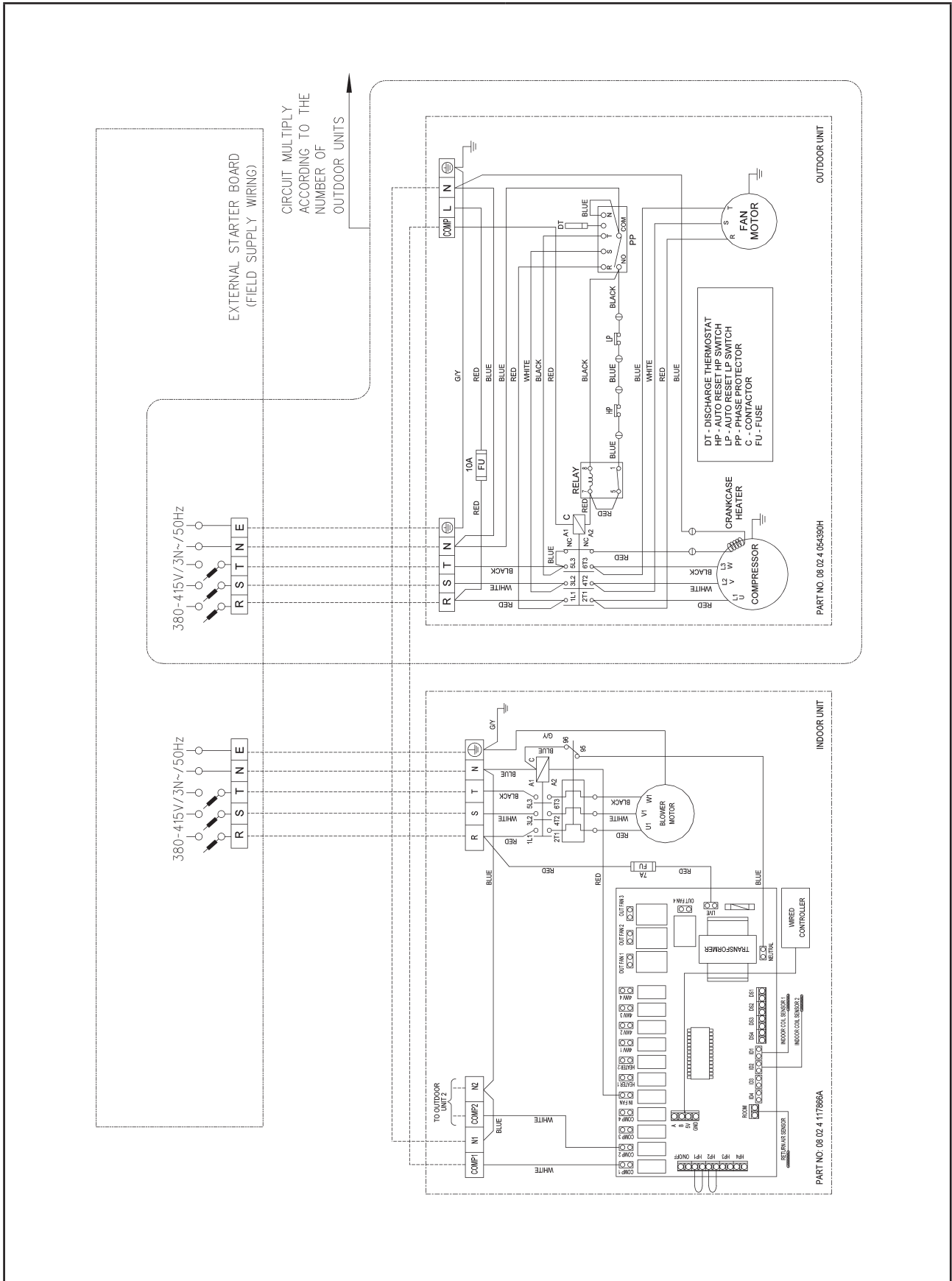
**Indoor Unit**  
Model: 2FDP150DXY1

**Outdoor Unit**  
Model: RCP75DXY1 x 2



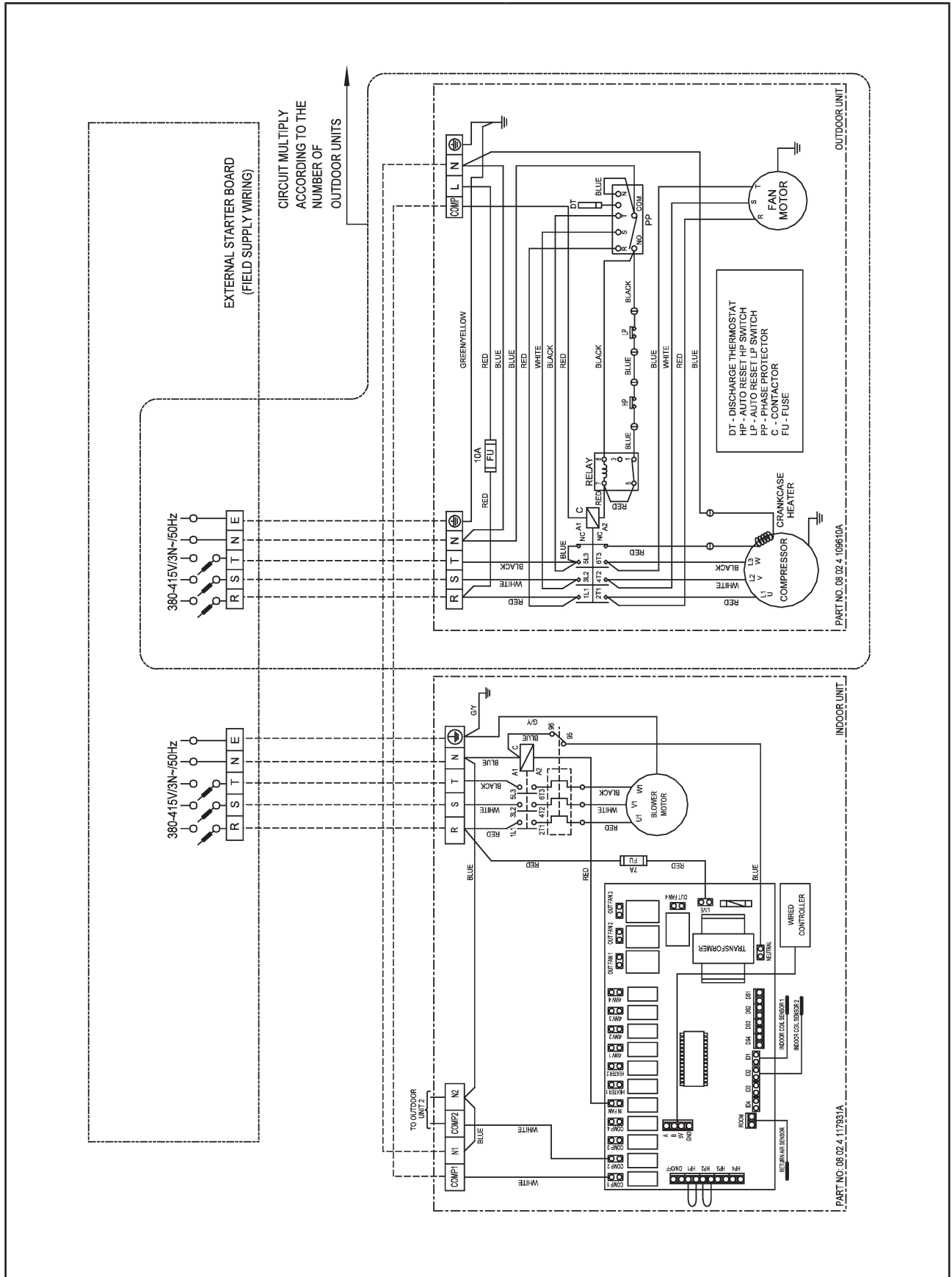
**Indoor Unit**  
Model: 2FDP200DXY1

**Outdoor Unit**  
Model: RCP100DXY1 x 2



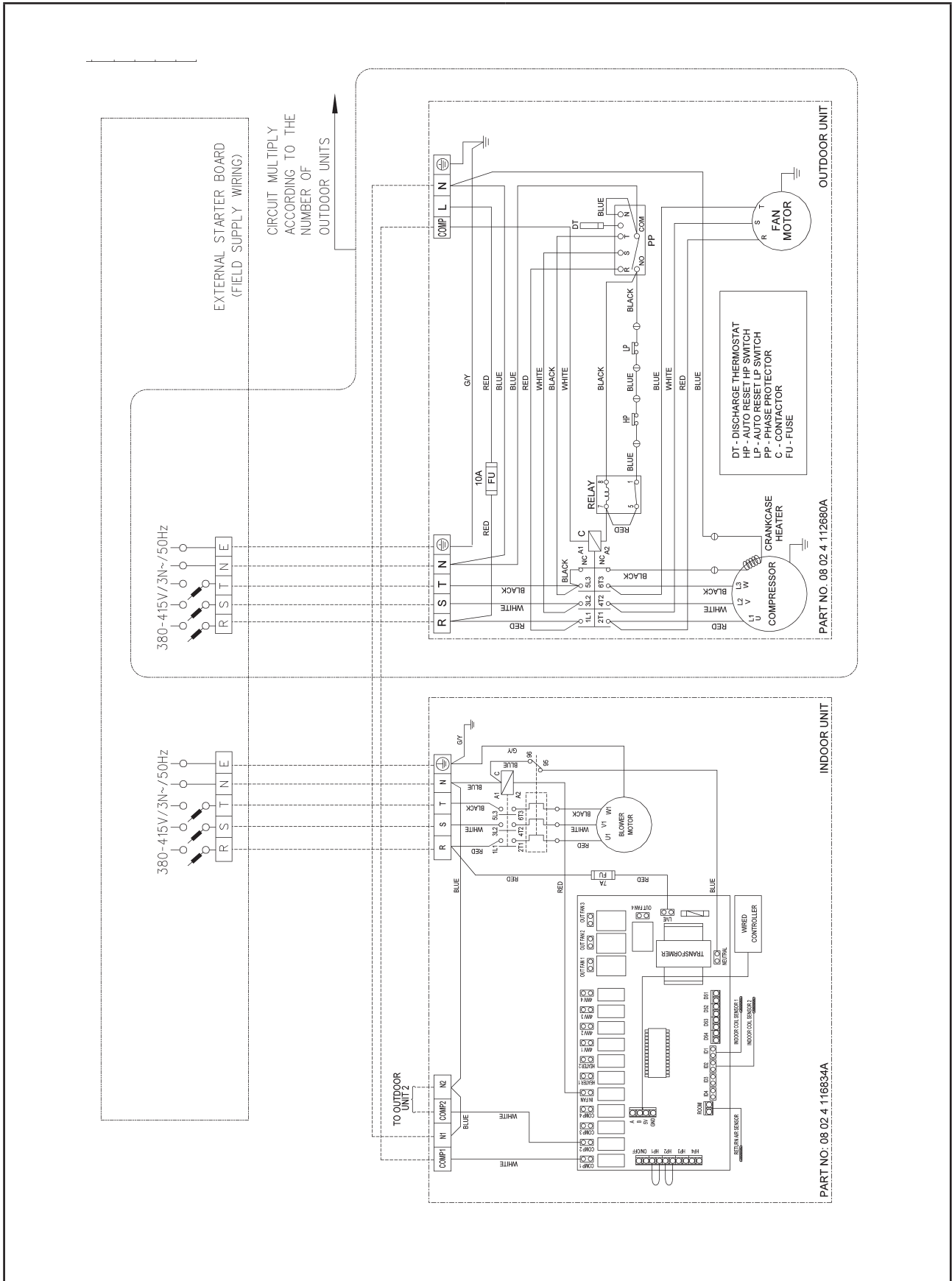
**Indoor Unit**  
**Model: 2FDP250DXY1**

**Outdoor Unit**  
**Model: RCP125DXY1 x 2**



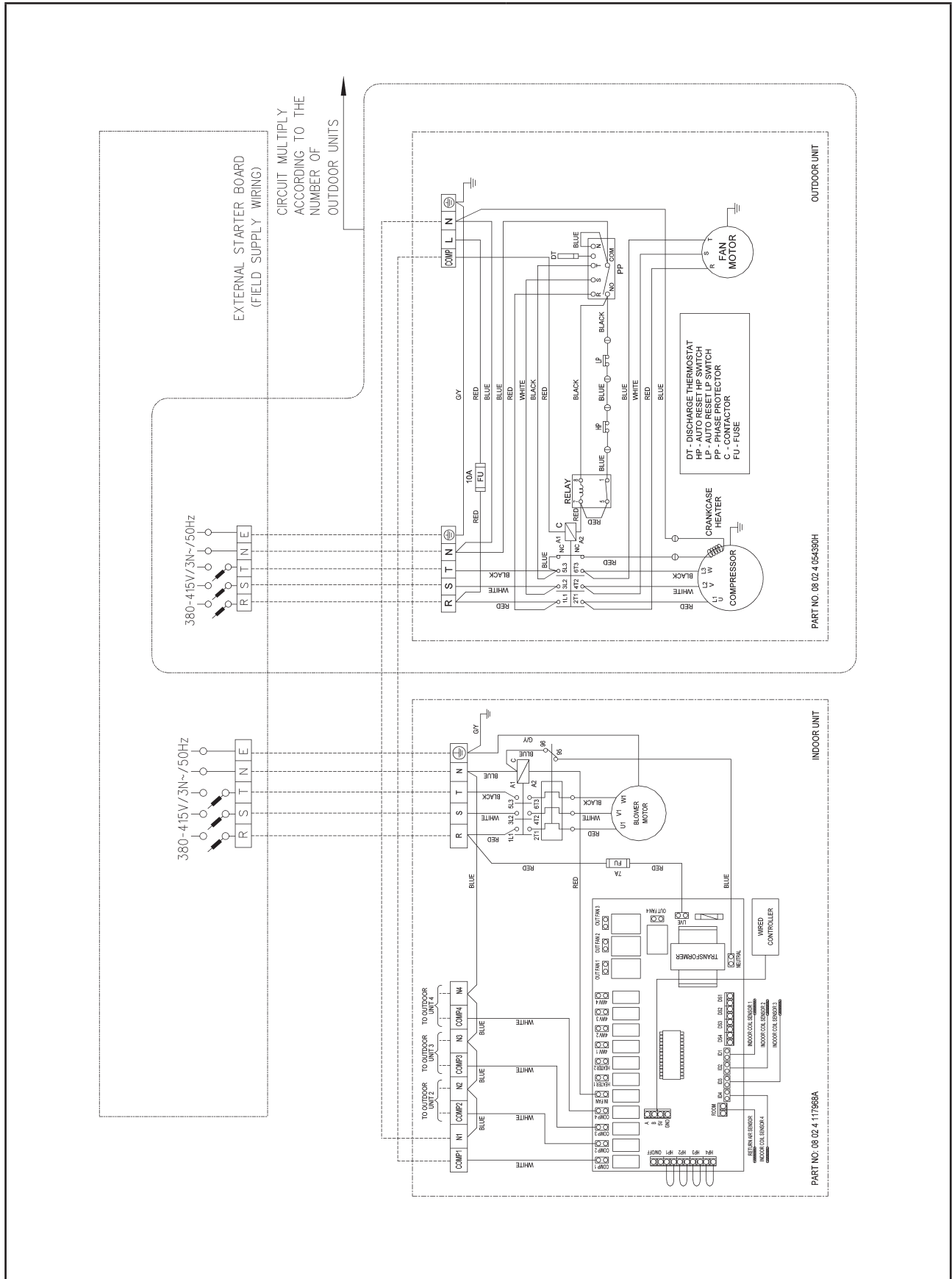
**Indoor Unit**  
**Model: 2FGP300DXY1**

**Outdoor Unit**  
**Model: RCP150DXY1 x 2**



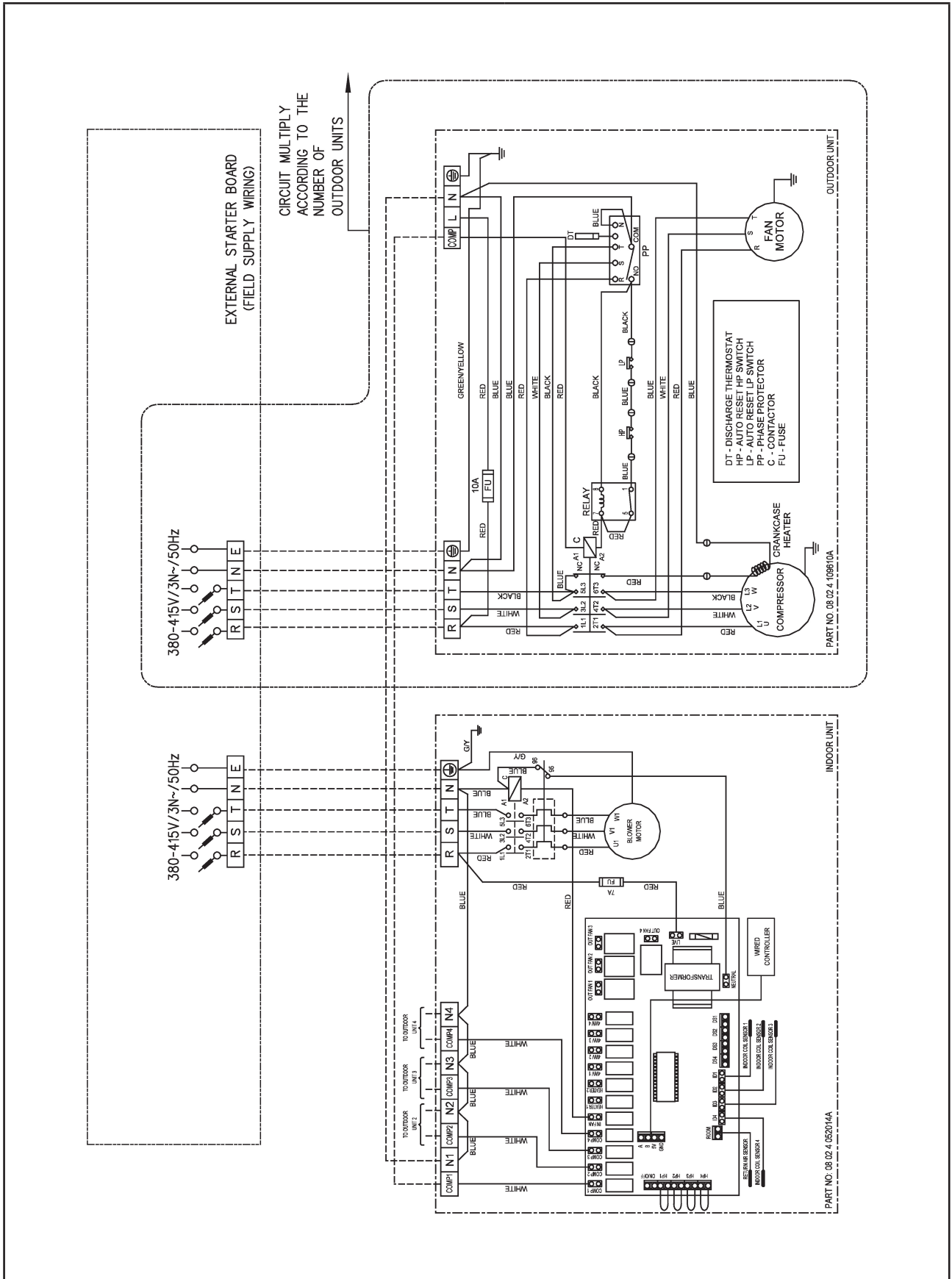
**Indoor Unit**  
**Model: 4FGP400DXY1**

**Outdoor Unit**  
**Model: RCP100DXY1 x 4**



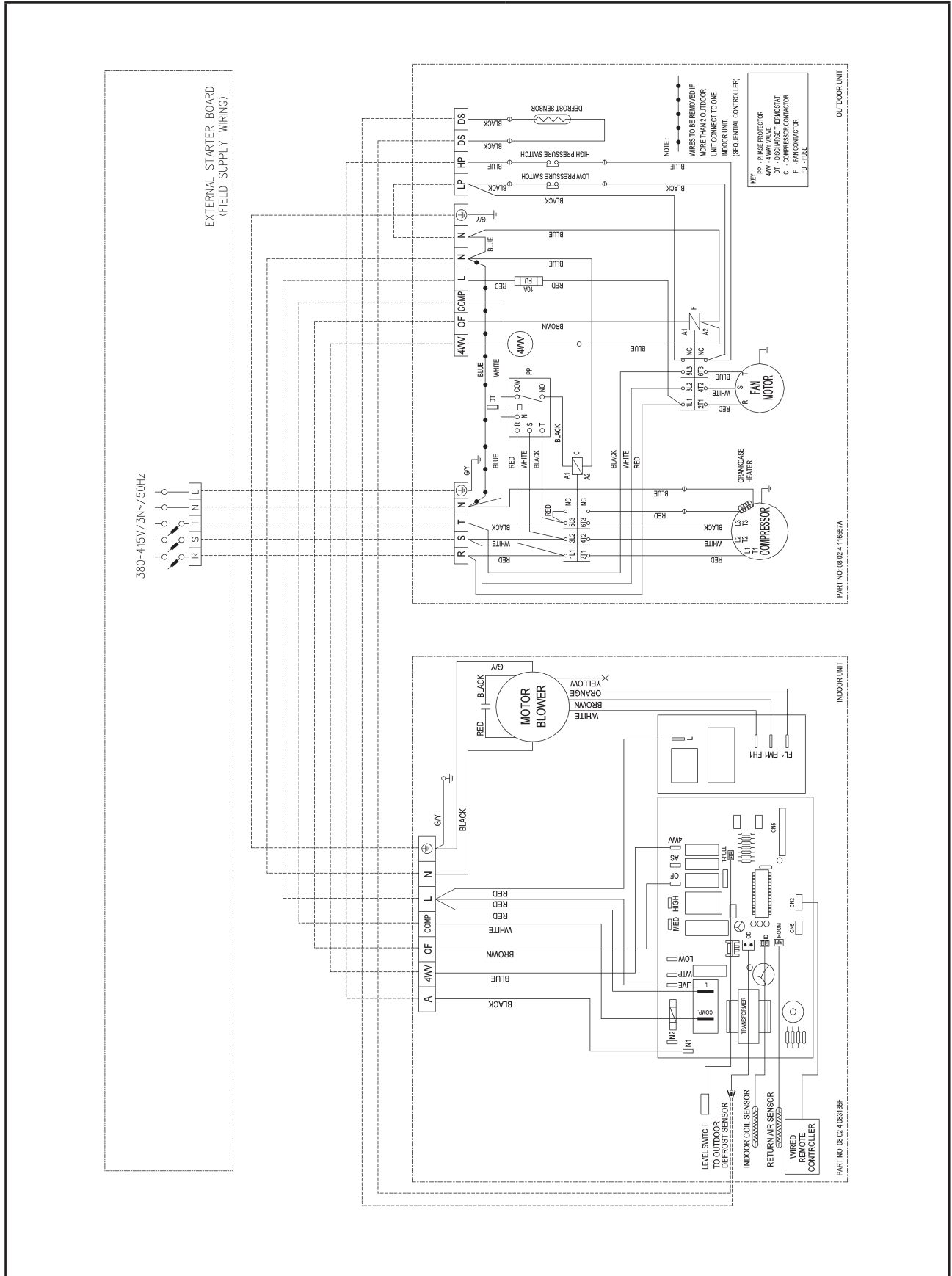
**Indoor Unit**  
**Model: 4FGP500DXY1**

**Outdoor Unit**  
**Model: RCP125DXY1 x 4**



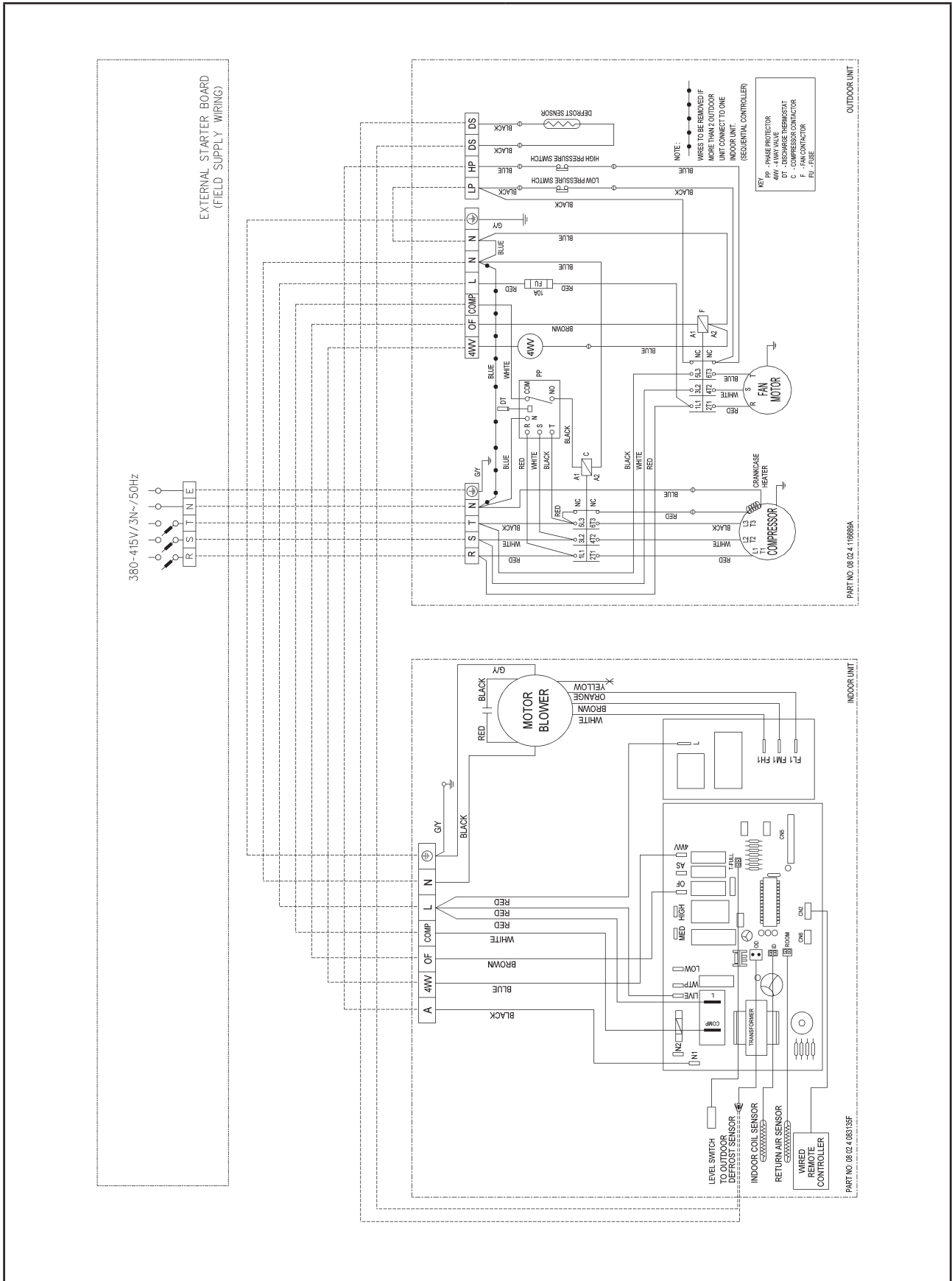
**Heatpump**  
**Indoor Unit**  
**Model: FDYMP75DXV1**

**Outdoor Unit**  
**Model: RCYP75EXY1**



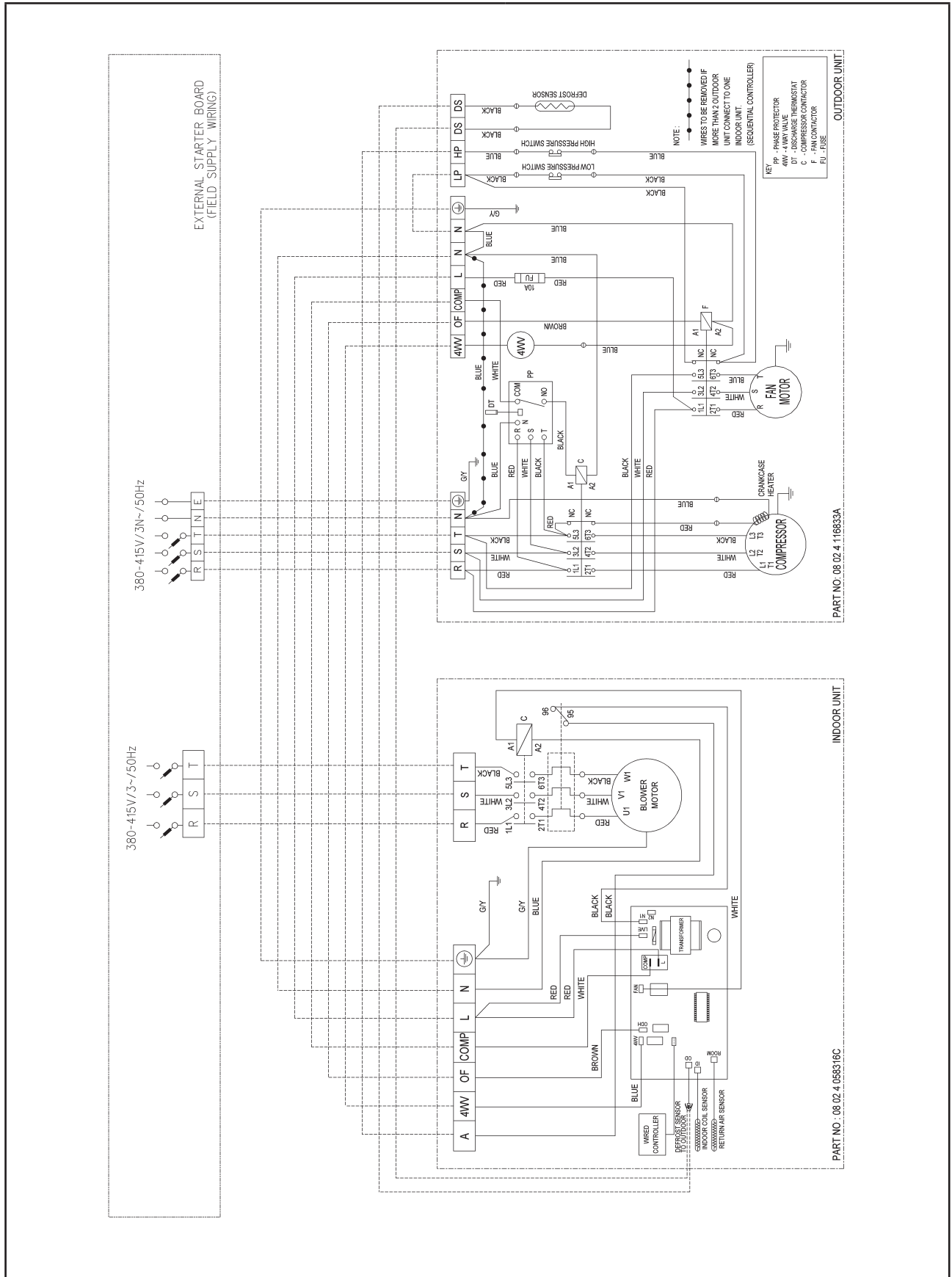
**Indoor Unit**  
**Model: FDYMP100DXV1**

**Outdoor Unit**  
**Model: RCYP100EXY1**



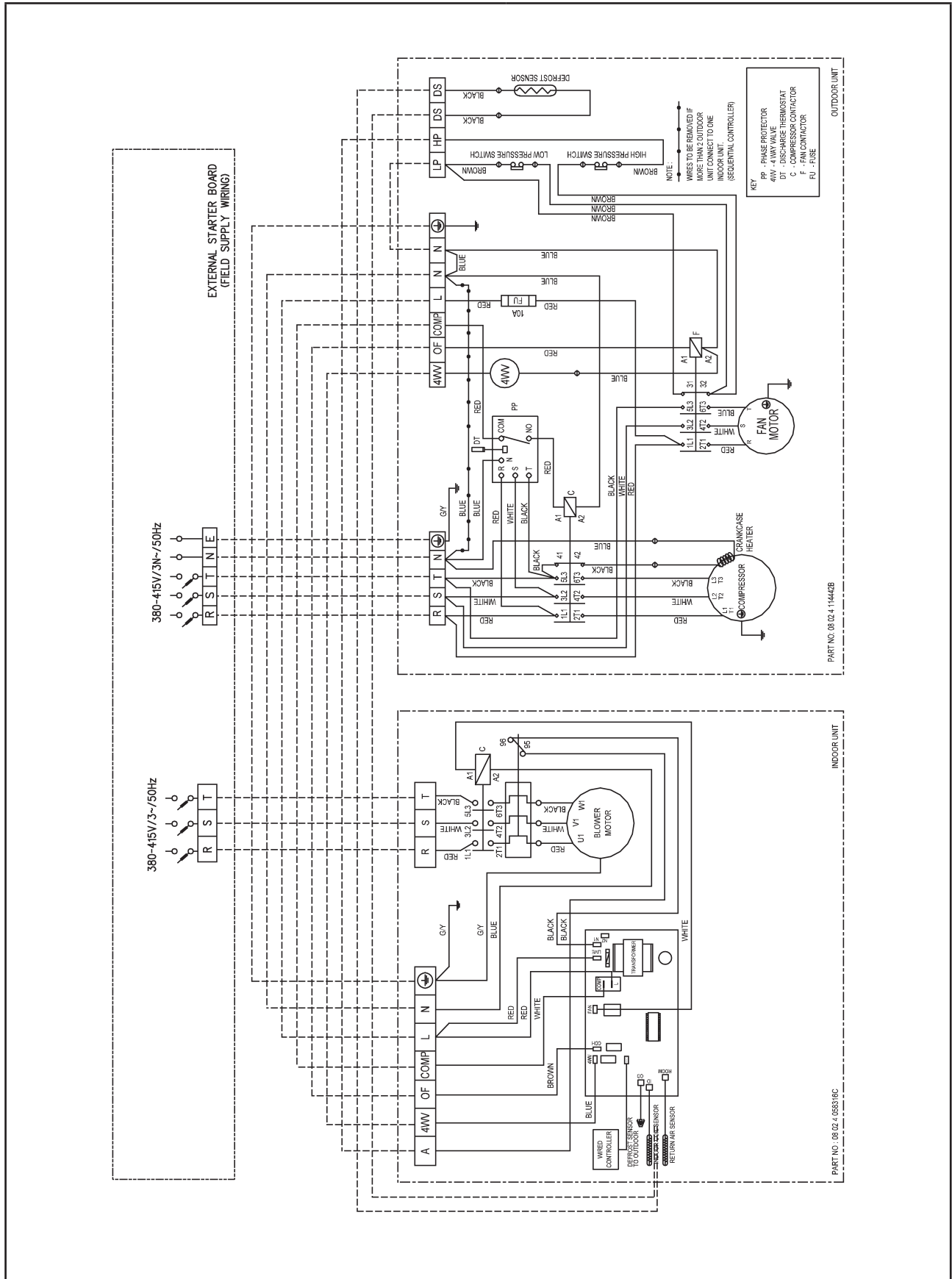
**Indoor Unit**  
**Model: FDYP125EXY1**

**Outdoor Unit**  
**Model: RCYP125EXY1**



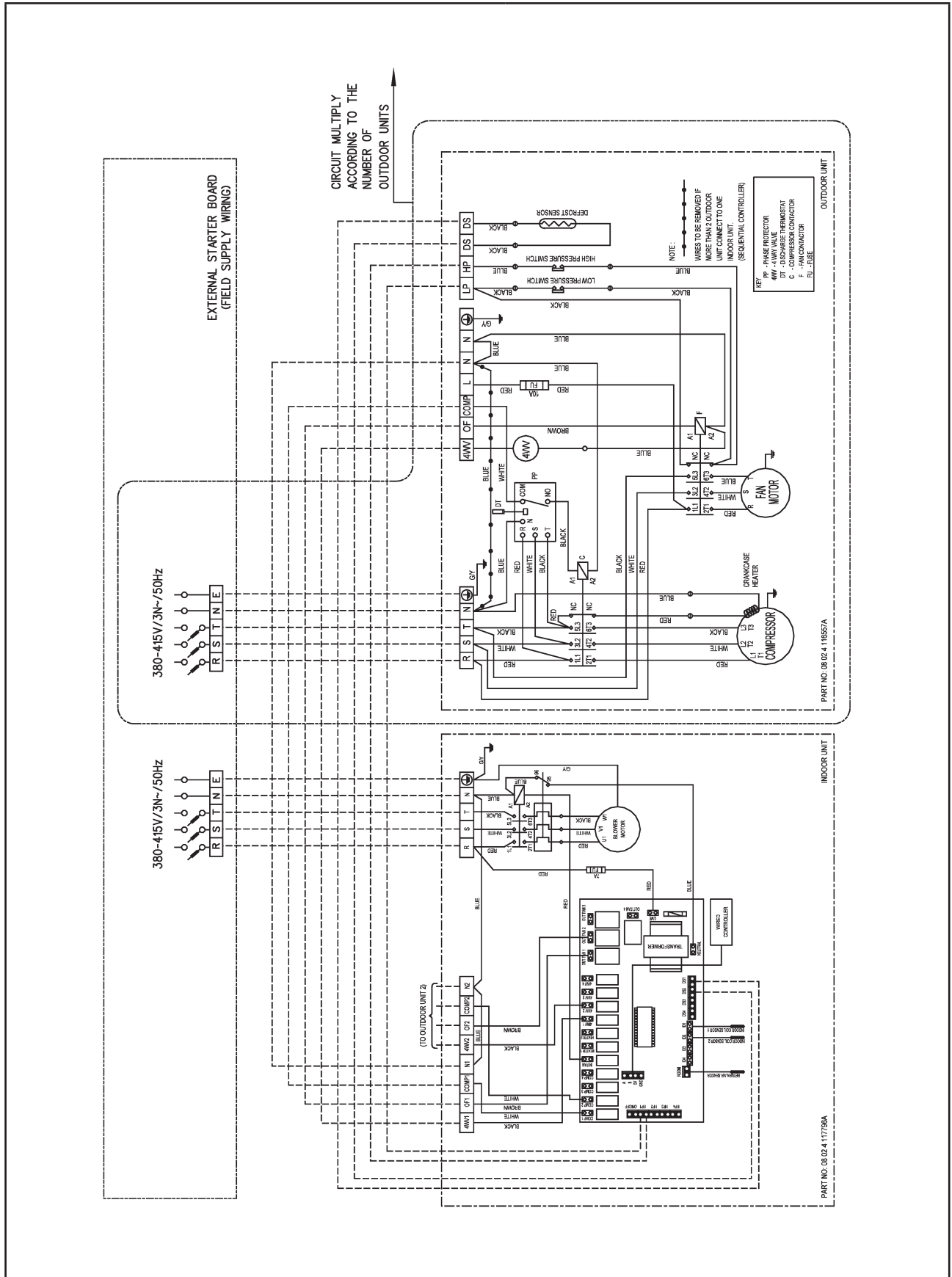
**Indoor Unit**  
**Model: FDYP150EXY1**

**Outdoor Unit**  
**Model: RCYP150EXY1**



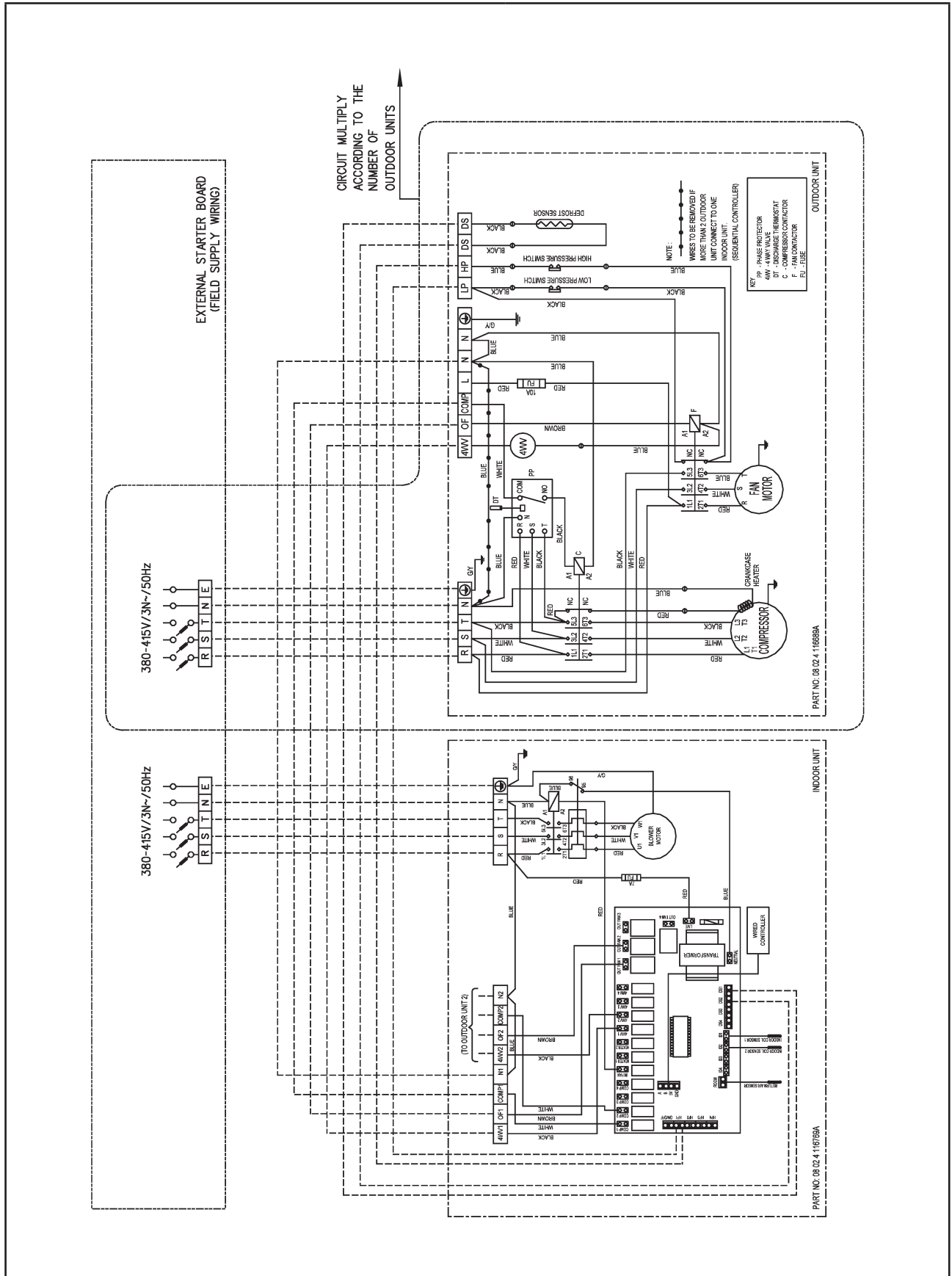
**Indoor Unit**  
**Model: 2FDYP150EXY1**

**Outdoor Unit**  
**Model: RCYP75EXY1 x 2**



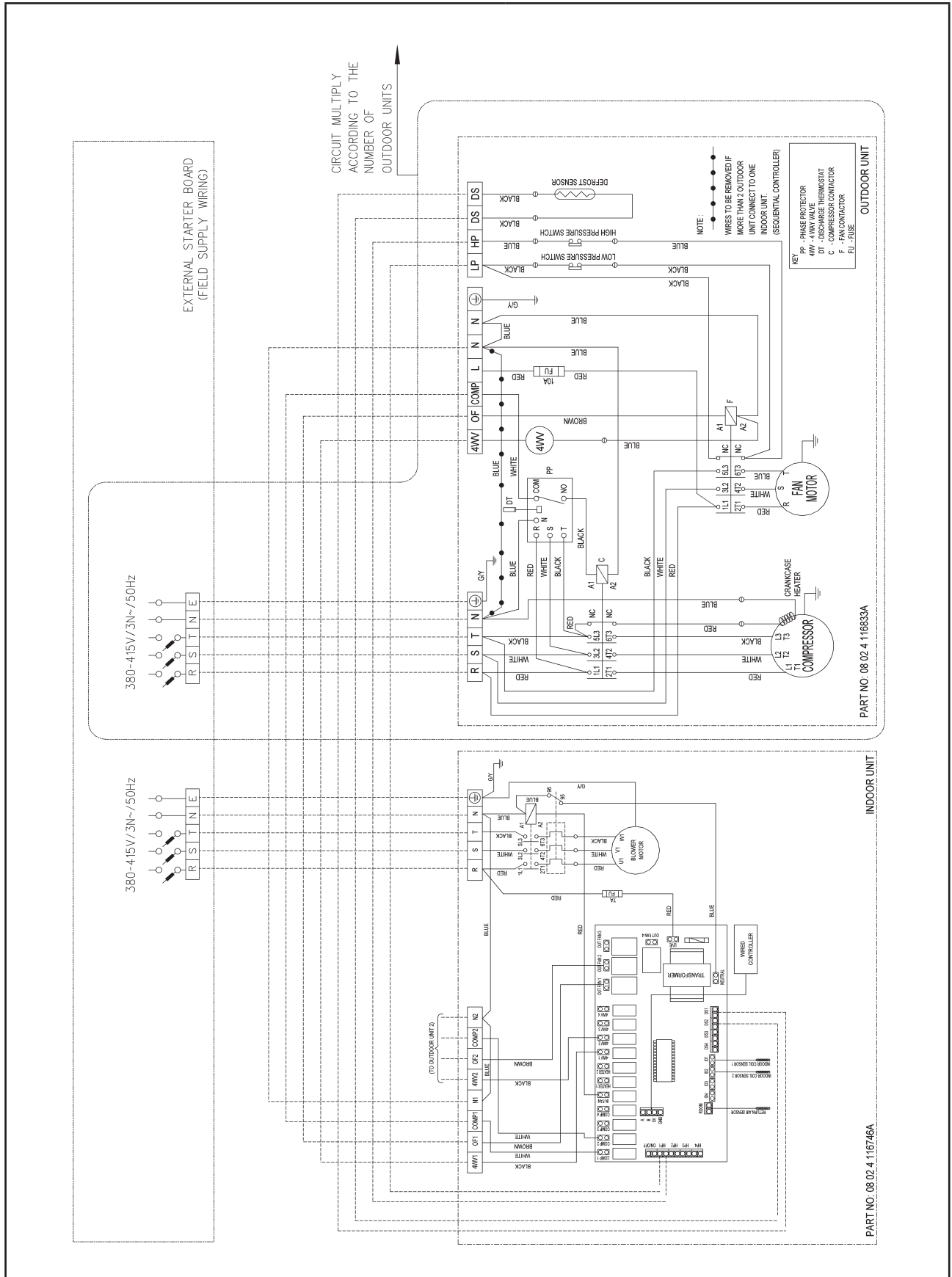
**Indoor Unit**  
**Model: 2FDYP200EXY1**

**Outdoor Unit**  
**Model: RCYP100EXY1 x 2**



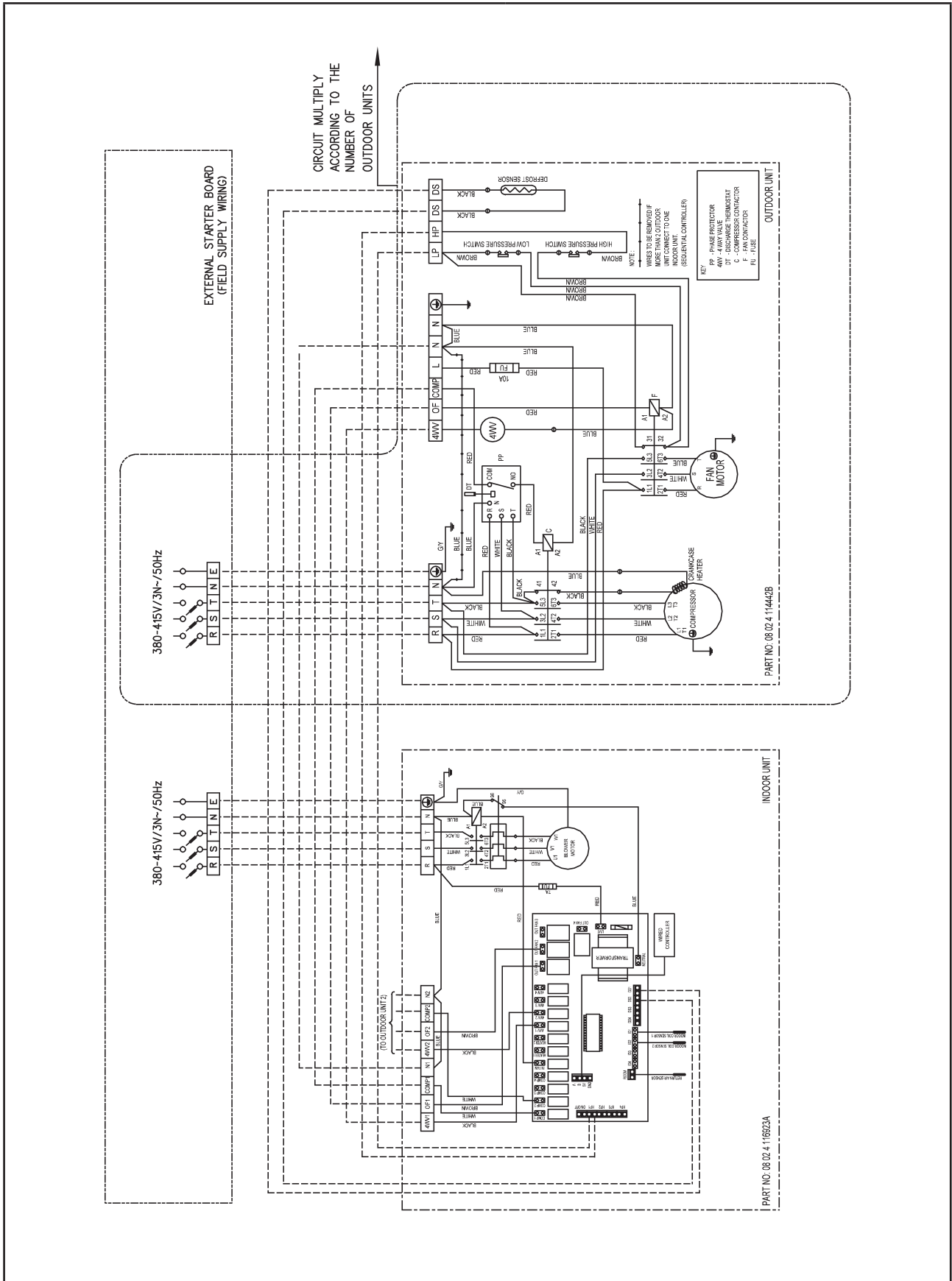
**Indoor Unit**  
**Model: 2FGYP250EXY1**

**Outdoor Unit**  
**Model: RCYP125EXY1 x 2**



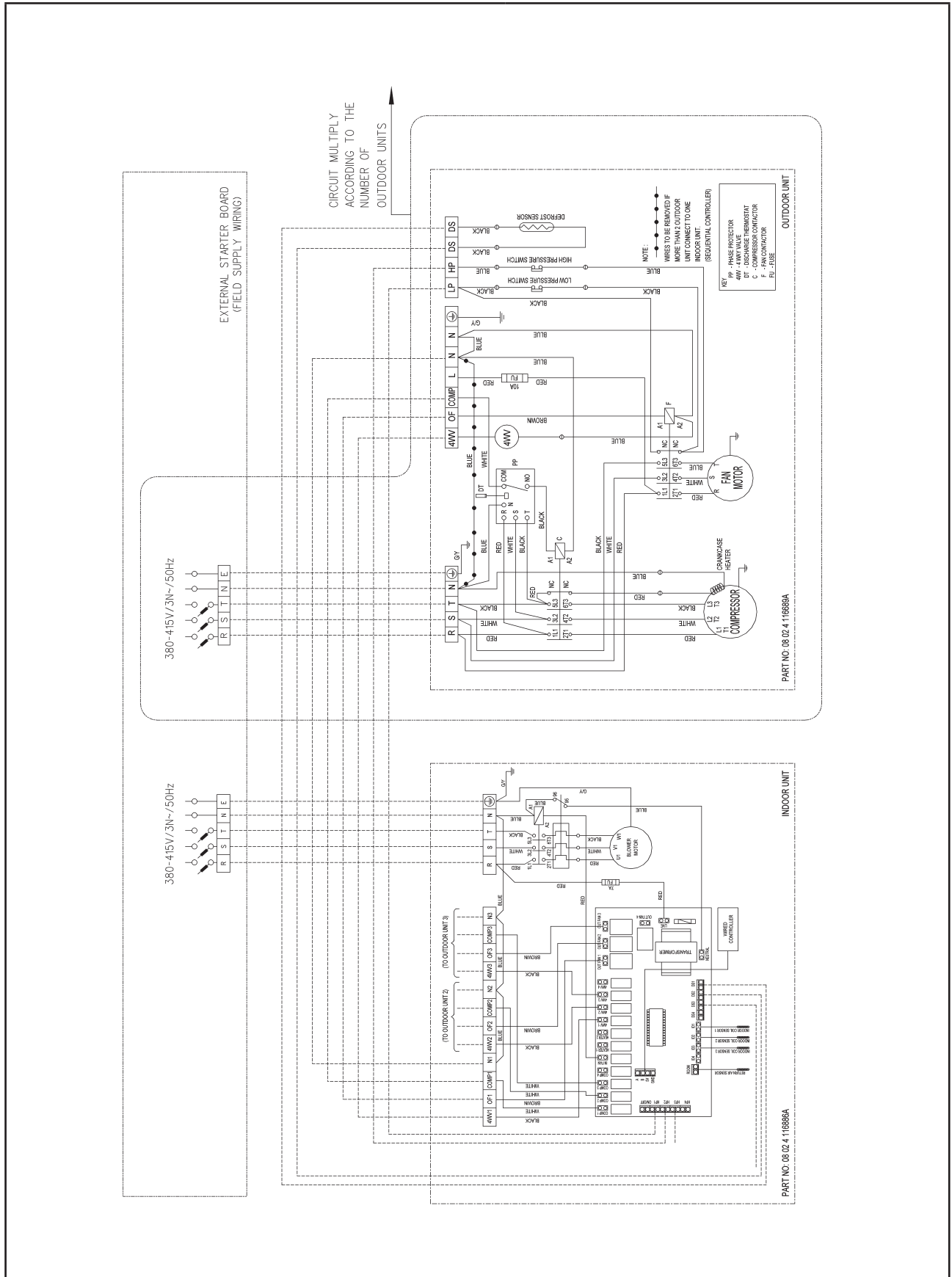
**Indoor Unit**  
**Model: 2FGYP300EXY1**

**Outdoor Unit**  
**Model: RCYP150EXY1 x 2**



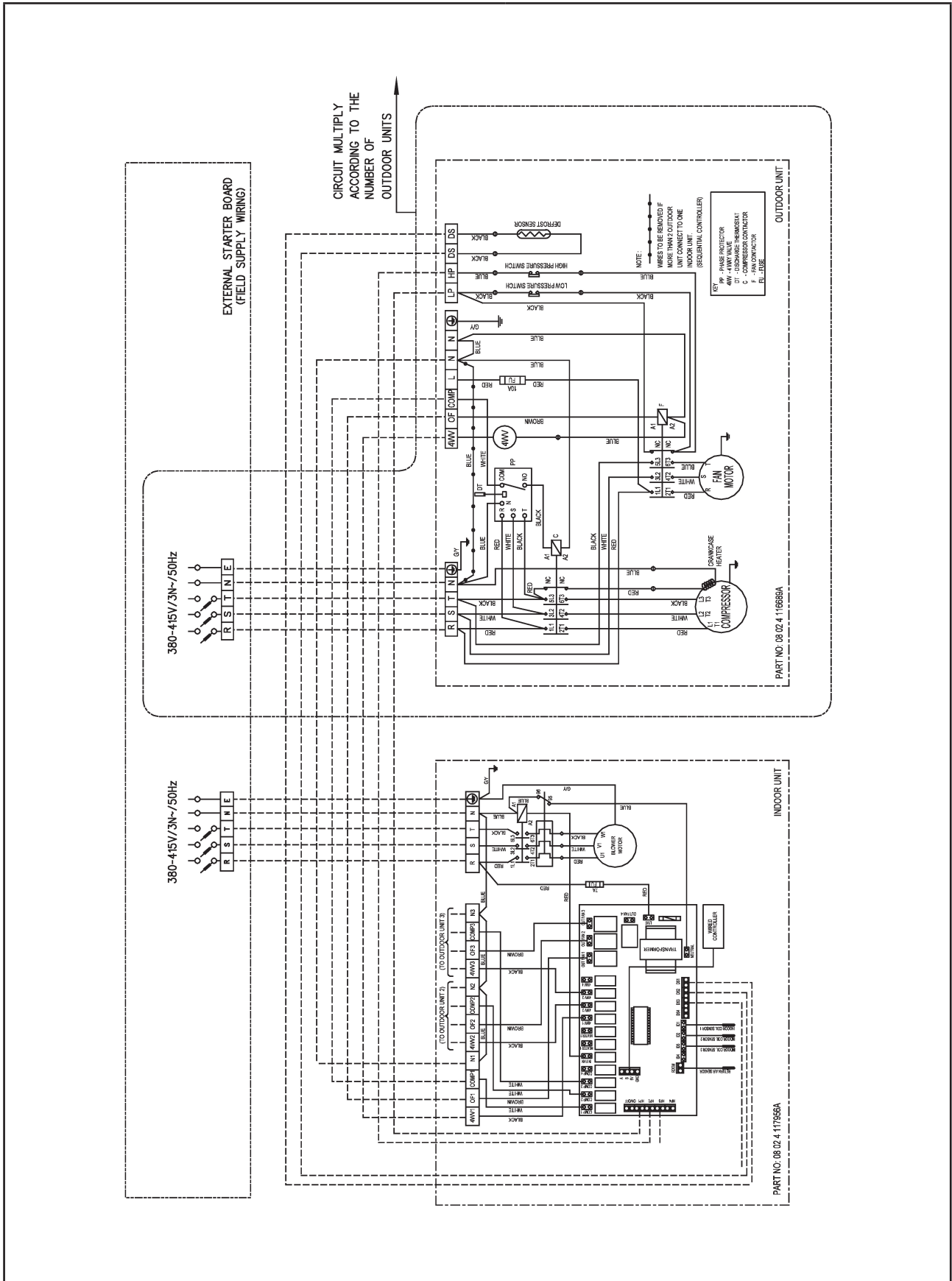
**Indoor Unit**  
**Model: 3FGYP300EXY1**

**Outdoor Unit**  
**Model: RCYP100EXY1 x 3**



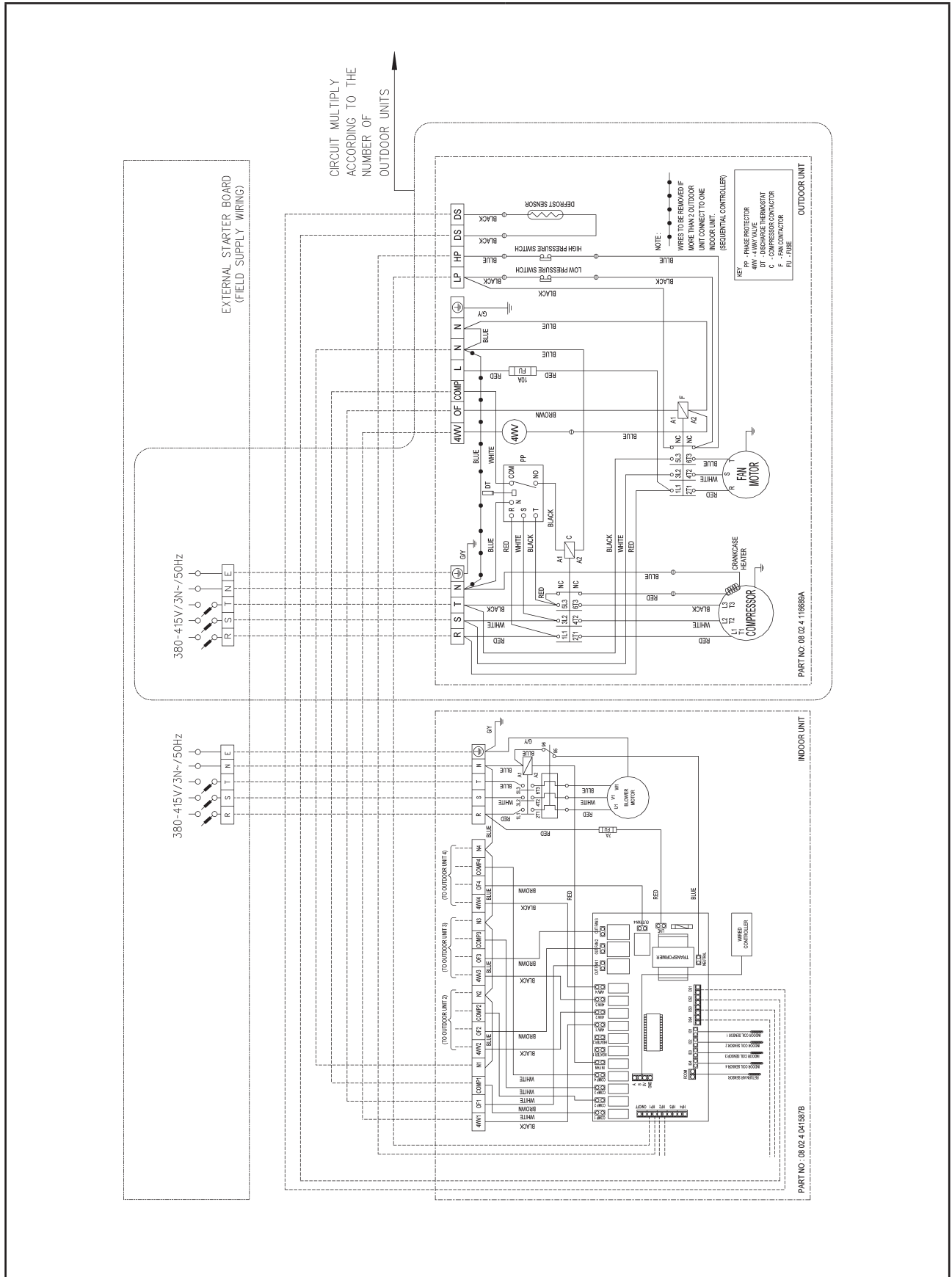
**Indoor Unit**  
**Model: 3FGYP350EXY1**

**Outdoor Unit**  
**Model: RCYP100EXY1 + RCYP125EXY1 x 2**



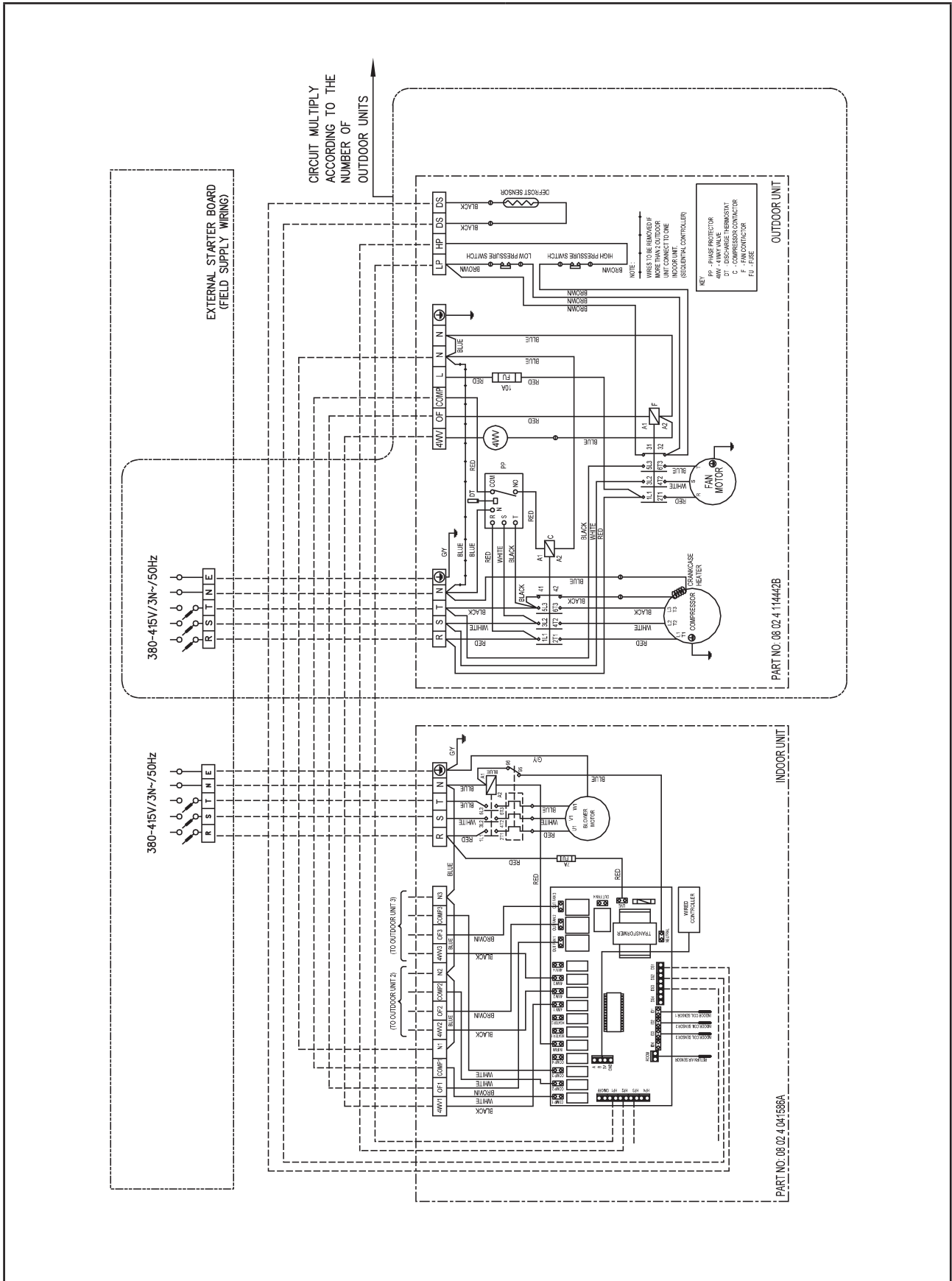
**Indoor Unit**  
**Model: 4FGYP400EXY1**

**Outdoor Unit**  
**Model: RCYP100EXY1 x 4**



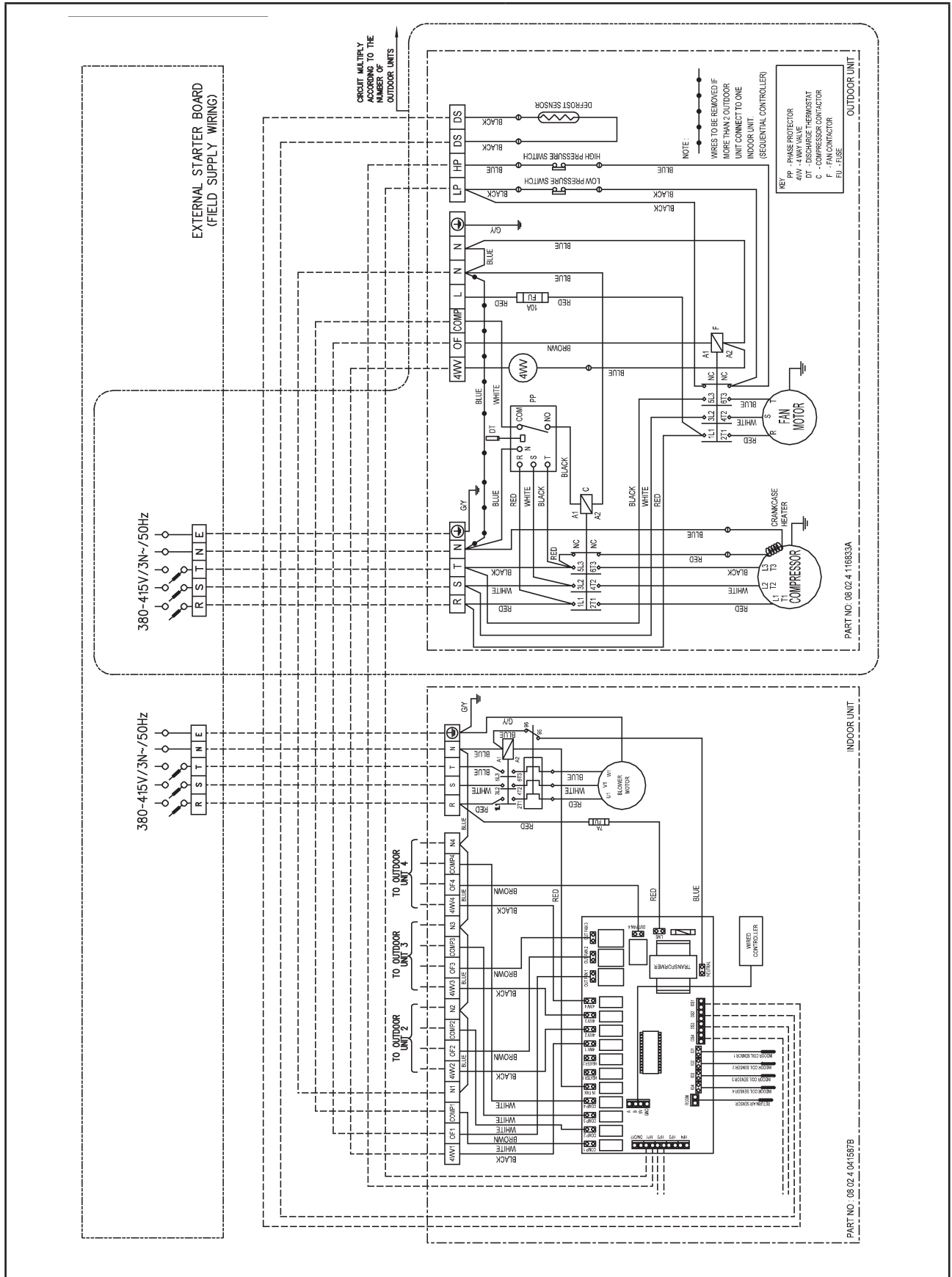
**Indoor Unit**  
**Model: 3FGYP450EXY1**

**Outdoor Unit**  
**Model: RCYP150EXY1 x 3**



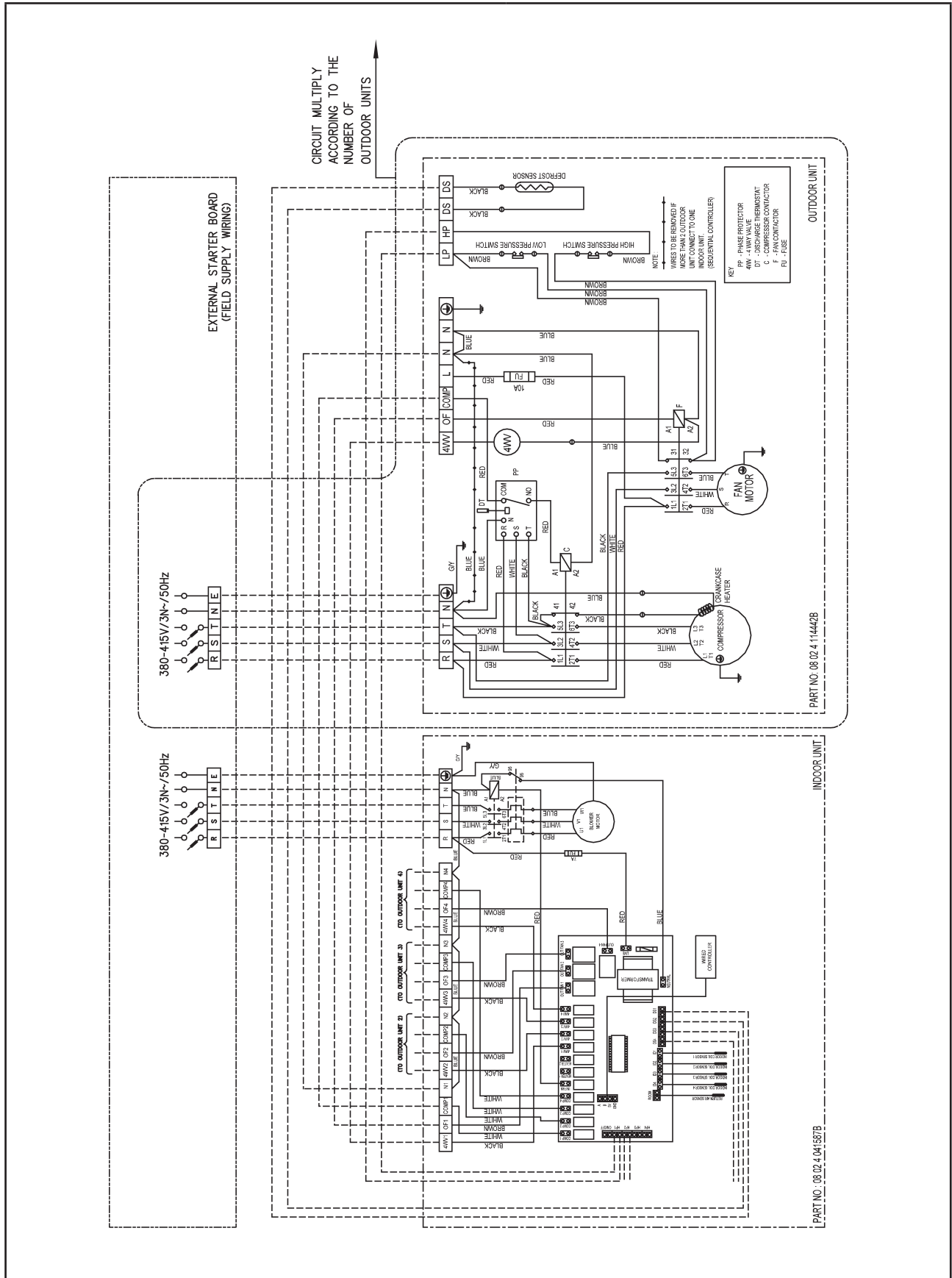
**Indoor Unit**  
**Model: 4FGYP500EXY1**

**Outdoor Unit**  
**Model: RCYP125EXY1 x 4**



**Indoor Unit**  
**Model: 4FGYP600EXY1**

**Outdoor Unit**  
**Model: RCYP150EXY1 x 4**



# Service & Maintenance

The design concept of the Condensing Unit is such that all servicing can be done from the front and side of the unit.

Upon removal of front and side panel, all the electrical “terminal box”, fan and motor assembly and compressor are easily accessible.

Under normal circumstances, these outdoor units only require a check and cleaning of air intake coil surfaces once quarterly. However, if a unit is installed in area subjected to much oil, mist and dust, the coil must be regularly cleaned by qualified Air Conditioner Service Technicians to ensure sufficient heat exchange and proper operation. Otherwise, the systems life span might be shortened.

**Note: Avoid direct contact of any coil treatment material on the plastic part. This may cause plastic part to deform as a result of chemical reaction.**

 **Caution**

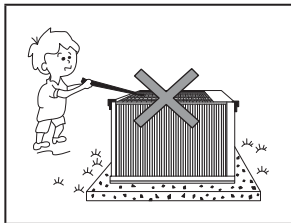
When the compressor is to be stopped for a long time, the crankcase heater should be energized for at least 6 hours before start of operation.

Do not charge **OXYGEN, ACETYLENE OR OTHER FLAMMABLE** and poisonous gases into the refrigeration cycle when performing a leakage test or an airtight test. These types of gases are extremely dangerous, because explosion can occur.

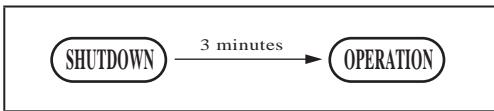
It is recommended that nitrogen or refrigerant be charged for these types of tests.

## CAUTION FOR USE

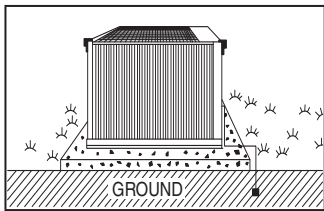
Bear the following points in mind to safeguard against malfunction and breakdown. Do not stick rods or other objects through the air outlet during operation since this may result to damage or injury



The air conditioner must not re-start within 3 minutes after shutdown. (These models are equipped with a crankcase heater with the compressor).



Make sure the air conditioner is properly grounded by checking the ground terminal.

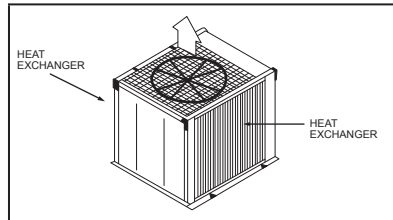


## MAINTENANCE

For superb performance and lasting durability, please do not forget to conduct proper and regular maintenance.

### Cleaning The Outdoor Unit Heat Exchanger

If you use your air conditioner for prolonged period of time, the outdoor unit heat exchanger will become dirty impairing its function and reducing the performance of the air conditioned. Consult your local dealer about the cleaning of the heat exchanger.



# Troubleshooting

When a malfunction of the air conditioner unit is detected, immediately switch off the main power supply before proceeding with the following troubleshooting procedures.

The following are common fault conditions and simple troubleshooting tips. If any other fault conditions which are not listed occur, contact your nearest local dealer. DO NOT attempt to troubleshoot the unit by yourself.

No	Fault conditions	Possible causes / corrective actions
1	The air conditioner unit will not resume after power failure.	<ul style="list-style-type: none"> <li>The auto restart function is not functioning. Please turn on the unit with the wireless / wired controller.</li> </ul>
2	The compressor does not operate 3 minutes after the air conditioner unit is started.	<ul style="list-style-type: none"> <li>Protection against frequent starting.</li> <li>Wait for 3 or 4 minutes for the compressor to start operating by it self.</li> </ul>
3	The airflow is too slow or room cannot be cooled sufficiently.	<ul style="list-style-type: none"> <li>The air filter is dirty.</li> <li>The doors and windows are opened.</li> <li>The air suction and discharge of both indoor and outdoor units are clogged or blocked.</li> <li>The regulated temperature or temperature setting is not low enough.</li> </ul>
4	Discharge airflow has bad odor.	<ul style="list-style-type: none"> <li>Cigarettes, smoke particles, perfume and others, which might have adhered onto the coil, may cause odor.</li> <li>Contact your nearest dealer.</li> </ul>
5	Condensation on the front air grille of the indoor unit.	<ul style="list-style-type: none"> <li>This is caused by air humidity after an extended period of operation.</li> <li>The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed.</li> </ul>
6	Water flowing out from the air conditioner.	<ul style="list-style-type: none"> <li>Switch off the unit and contact your nearest dealer. This might be due to tilted installation.</li> </ul>
7	Hissing airflow sound from the air conditioner unit during operation.	<ul style="list-style-type: none"> <li>Liquid refrigerant flowing into the evaporator coil.</li> </ul>
8	The wireless controller display is dim.	<ul style="list-style-type: none"> <li>The batteries are discharged.</li> <li>The batteries are not correctly inserted.</li> <li>The assembly is not good.</li> </ul>
9	Compressor operates continuously.	<ul style="list-style-type: none"> <li>Dirty air filter. Clean the air filter.</li> <li>Temperature setting too low (cooling). Use higher temperature setting.</li> <li>Temperature setting too high (heating), Use lower temperature setting.</li> </ul>
10	No cool air comes out during cooling cycle, or no hot air comes out during heating cycle.	<ul style="list-style-type: none"> <li>Temperature setting too high (cooling). Use lower temperature setting.</li> <li>Temperature setting too low (heating). Use higher temperature setting.</li> </ul>
11	On heating cycle, warm air does not come out.	<ul style="list-style-type: none"> <li>Unit is in defrost mode. Heating operation will resume after defrost cycle ends.</li> </ul>

## Error Code

### Wired Handset : BRC51B51, BRC51B52, BRC51B61, BRC51B62

When the system is on and an error occurs, the seven segments LED will blink an error code. Each error code blinking represents different message as below:

Error	Seven Segments
Room Sensor missing/Short	E1 blinking
Indoor coil sensor missing/Short	E2 blinking
Outdoor coil sensor missing/Short	E3 blinking
Compressor overload	E4 blinking
Outdoor abnormal compressor overload trip or gas leak	E5 blinking

### Wired Handset : BRC51C51, BRC51C61

When the system is on and an error occurs, the **ON/OFF** LED on the LCD panel will blink and an error code is shown. When the system is off and there is a thermistor error, the **ON/OFF** LED is off but the error code is still displayed. Each error code represents different message as below

Error code	Possible fault	Error code	Possible fault
<b>E01</b>	Require manual reset (possible causes)	<b>E19</b>	Indoor coil sensor 4 short
<b>E02</b>	Compressor 1 high temperature (overload)	<b>E20</b>	Indoor coil sensor 1 open
<b>E03</b>	Compressor 2 high temperature (overload)	<b>E21</b>	Indoor coil sensor 2 open
<b>E04</b>	Compressor 3 high temperature (overload)	<b>E22</b>	Indoor coil sensor 3 open
<b>E05</b>	Compressor 4 high temperature (overload)	<b>E23</b>	Indoor coil sensor 4 open
<b>E06</b>	Compressor 1 high pressure trip / contact open	<b>E24</b>	Outdoor coil sensor 1 short
<b>E07</b>	Compressor 2 high pressure trip / contact open	<b>E25</b>	Outdoor coil sensor 2 short
<b>E08</b>	Compressor 3 high pressure trip / contact open	<b>E26</b>	Outdoor coil sensor 3 short
<b>E09</b>	Compressor 4 high pressure trip / contact open	<b>E27</b>	Outdoor coil sensor 4 short
<b>E10</b>	Compressor 1 trip / low R-22 / outdoor abnormal	<b>E28</b>	Outdoor coil sensor 1 open
<b>E11</b>	Compressor 2 trip / low R-22 / outdoor abnormal	<b>E29</b>	Outdoor coil sensor 2 open
<b>E12</b>	Compressor 3 trip / low R-22 / outdoor abnormal	<b>E30</b>	Outdoor coil sensor 3 open
<b>E13</b>	Compressor 4 trip / low R-22 / outdoor abnormal	<b>E31</b>	Outdoor coil sensor 4 open
<b>E14</b>	Room sensor short	<b>E32</b>	Compressor 1 de-ice
<b>E15</b>	Room sensor open	<b>E33</b>	Compressor 2 de-ice
<b>E16</b>	Indoor coil sensor 1 short	<b>E34</b>	Compressor 3 de-ice
<b>E17</b>	Indoor coil sensor 2 short	<b>E35</b>	Compressor 4 de-ice
<b>E18</b>	Indoor coil sensor 3 short		

## Phase Sequencer

The unit with Scroll Compressor can only rotate in one direction. For this reason, a protective device (phase protector) is fitted to prevent incorrect wiring of the electrical phases. When the three phases are not connected correctly, the phase protector operates, and the unit will not start.

This device is located in the control box of the outdoor unit.

The following table shows the LED indicator light for phase protector under normal operation and fault conditions.

Description \ LED	PW (Red)	P_R (Yellow)	P_S (Yellow)	P_T (Yellow)	Actions
Normal operation	○	●	●	●	-
Reverse phase	◐	◐	◐	◐	Switch off the unit. Check the 3 phase wiring.
T phase missing	◐	●	●	◐	Switch off the unit. Check the 3 phase wiring.
S phase missing	◐	●	◐	●	Switch off the unit. Check the 3 phase wiring.
R phase missing	●	●	●	●	Switch off the unit. Check the 3 phase wiring.
S & T phase missing <sup>+</sup>	◐	●	◐	◐	Switch off the unit. Check the 3 phase wiring.
Overload <sup>+</sup>	◐	●	●	●	High discharge temperature. Check the refrigerant system.
Sensor missing <sup>+</sup>	◐	○	○	○	Switch off the unit. Plug in sensor.

○ ON

● OFF

◐ Fast Blink

### Notes:

1. “+” indicates additional functions for PP01 phase protector.
2. When R phase missing, no LED or buzzer will indicate the error, but phase protector (NO) and contactor (NC) will cut off.
3. The unit will check the discharge sensor availability only during power up.
4. All errors can only recover by reset manually.

