LG
Life's Good

MULTI V™ III

ENGINEERING MANUAL



Variable Refrigerant Flow Outdoor Units
6.0 to 36.0 Tons

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About LG Electronics, Inc.

LG Electronics, Inc. is a global leader and technology innovator in consumer electronics, mobile communications, and home appliances, employing more than 213,000 people in more than 60 countries worldwide. LG Electronics, Inc. comprises five business units—Home Entertainment, Mobile Communications, Air Conditioning, Business Solutions, and Home Appliance. LG is one of the world's leading producers of flat panel televisions, audio and video products, mobile handsets, air conditioners, and washing machines. LG's commercial air conditioning business unit was established in 1968 and has built its lineup of residential and commercial products to include VRF, Multi F, duct-free split (DFS) systems, packaged terminal air conditioners (PTACs), and room air conditioners. In 2011, the air conditioning and energy solutions business unit grew to include LED lighting and solar products. For more information, visit www.lg-vrf.com.

Variable Refrigerant Flow (VRF) Technology

In the early 1980s, VRF technology was introduced to the world as an alternative method of cooling and heating in commercial structures, and is designed to minimize utility consumption. VRF systems have become the system of choice for designers internationally because these systems offer better comfort at lower costs when compared to traditional boiler/chiller/Variable Air Volume (VAV) air handler systems. Today, VRF is gaining popularity in the United States.

LG Multi V III air-source systems offer the opportunity to minimize ductwork in the same configuration. The system offers zoning without the need for zone damper systems. The LG Multi V III system's advanced controls provide exceptional building dehumidification and temperature control, and can rapidly adapt system operating parameters to the ever-changing building load. The LG Multi V III system is easy to design, install, and maintain. The modular design allows occupants to control their environmental condition, providing individualized control of the set-point temperature and allowing occupants to condition only the occupied zones.

Quality Commitment

LG is committed to the success of every Multi V project by providing the best industry technical support during project engineering, installation, and commissioning. LG offers a variety of classes for engineers, architects, installers, and servicers on Multi V installation. Classes are conducted at LG's training centers and in field locations at various times throughout the year and upon special request.



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TABLE OF CONTENTS

About LG Electronics, Inc. 3

Table of Contents 4

Architectural Appeal 6

Engineers' Advantage 7

Product Data 9-76
- *Product Features and Benefits 10-11*
- *Unit Nomenclature 12-13*
- *General Data 14-26*
  - *Heat Pump Outdoor Unit Specifications 14-19*
  - *Heat Recovery Outdoor Unit Specifications 20-25*
  - *Heat Recovery Unit Specifications 26*
- *Electrical Data 27-28*
- *Indoor Unit Specifications 29-31*
- *Indoor Unit Controls and Options 32*
- *Outdoor Unit Dimensions 33-38*
- *Heat Recovery Unit Dimensions 39-41*
- *Acoustic Data 42-44*
- *Refrigerant Flow Diagrams - Outdoor Units 45-64*
- *Refrigerant Flow Diagram - Heat Recovery Unit 65*
- *Wiring Diagrams - Outdoor Units 66-73*
- *Wiring Diagram - Heat Recovery Unit 74*
- *Accessories 75-80*

Performance Data 81-177
- *Cooling Capacity Tables 82-129*
- *Heating Capacity Tables 130-177*

Application Guidelines 179-198
- *Equipment Selection Procedure 180-190*
- *Building Ventilation Design Guide 191-193*
- *Placement Considerations 194-198*

Refrigerant Piping Design and Best Practices 199-250
- *LATS Multi V Piping Design Software 200*
- *Design Guideline Summary 201-202*
- *Pipe Sizing for ARUN Series Heat Pump Systems 203-208*
- *Pipe Sizing for ARUB Series Heat Recovery Systems 209-214*
- *Creating a Balanced / Quality Piping System 215*
- *Manual Layout Procedure 216*
- *LG Engineered Y-branch Kits and Header Kits 217-218*
- *Multi-frame Connectors for Heat Pump Systems 219*
- *Multi-frame Connectors for Heat Recovery Systems 220*
- *Refrigerant Charge 221-224*
- *Selecting Field-supplied Copper Tubing 225-227*
- *Refrigerant Piping System Layout 228-235*

Cut Sheets 236-250
- *Multi-Frame Connectors (Outdoor Unit Y-branch Kits) (For ARUN Heat Pump Systems) 236*
- *Indoor Unit Y-branch Kits (For ARUN Heat Pump Systems) 237*
- *Multi-Frame Connectors Outdoor Unit Y-branch Kits (For ARUB Heat Recovery Systems) 238*
- *Indoor Unit Y-branch Kits (For ARUB Heat Recovery Systems) 239*
- *Header Kits 240-241*
- *Electrical Connections 242-250*

U.S. Design Standards 251-257
- *ASHRAE Standards Summary 252-255*
- *Building Sustainability 256-257*

Mechanical Specifications 258-259
- *VRF Multi V III Heat Pump and Heat Recovery Outdoor Units 258*
- *Multi V III Heat Recovery Units 259*

Acronyms 260

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INTRODUCTION

“Architectural Appeal” on page 6
“Engineers’ Advantage” on page 7

ARCHITECTURAL APPEAL

Convergence of Technological Innovation with Flexibility and Style

Benefits of Multi V III Systems

- Maximum individual zone control
- Long refrigerant piping lengths
- High refrigerant piping elevation differences
- Maximum flexibility
- Operating ranges of 23°F to 122°F in cooling and -4°F to +60°F in heating (heat pump and heat recovery systems); 14°F to 81°F in cooling-based synchronous, and 14°F to 60°F in heating-based synchronous (heat recovery systems)
- Quiet and comfortable environment
- Reduced ductwork





Multi V III

Multi V III, a variable refrigerant flow (VRF) system, is among the industry's best air-conditioning units with great advantage on vertical rise and piping lengths. Choosing an LG Multi V III VRF system provides a system designer an edge to engineer a system with individual control, and design flexibility with advanced controls. Multi V III is available in two configurations. Multi V III heat pumps are two-pipe systems available in nominal capacities of 6.0 to 36.0 tons. These are best suited for applications with zones that require heating or cooling, such as residential and small office buildings. Multi V III heat recovery is a three-pipe system that provides simultaneous heating and cooling operation from the same outdoor unit.

Both Multi V III heat pump and heat recovery systems allow the designer to accommodate up to 64 thermal zones, each controlled from a separate controller. Multi V III outdoor units are available in 208–230V/60Hz/3Ph and 460V/60Hz/3Ph.

Adaptable and Flexible

Multi V III outdoor units can be adapted to a wide range of building applications and sizes such as schools, hotels, hospitals, offices, and residences. The lightweight and small footprint allows system components to be placed in the building without expensive cranes, easily fitting into most service elevators and set in place with minimal requirements for structural reinforcements. The modular design of VRF systems means Multi V III can be commissioned in stages so tenants can move in as each floor or even each room is completed.

Multi V III technology allows you to pipe farther by reaching areas of the building that would require the installation of a second system when using traditional direct-expansion cooling and heating equipment. Multi V III provides the designer with uncompromised pipe system engineering flexibility—long pipe runs and large elevation differences. Whether your building is a high-rise condominium, a hotel, a sprawling school, or an office complex, Multi V III is best suited to reach the farthest corners and elevations.



Smaller Chases and Plenums

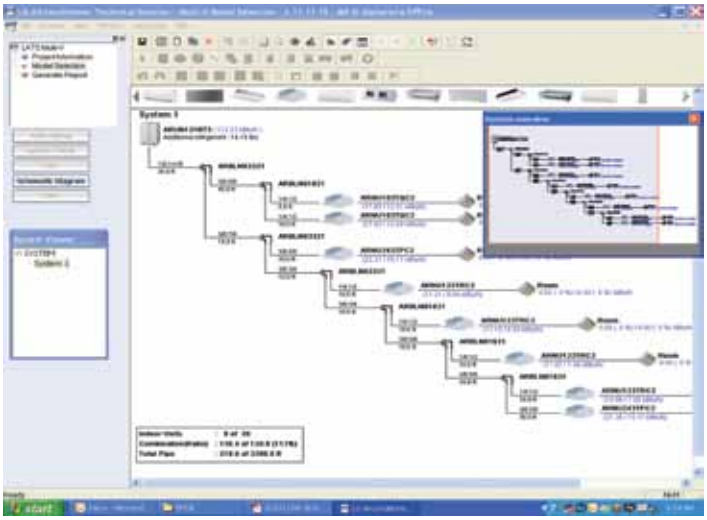
LG Multi V III systems use refrigerant piping to move heat, resulting in smaller space requirements for piping as compared to chilled water or roof top systems. This helps reduce the overall construction and material cost of the building, and gives back leasable space. Flexible and logical placement of system components, shorter pipe lengths, and fewer joints lowers installation costs and minimizes potential leaking.

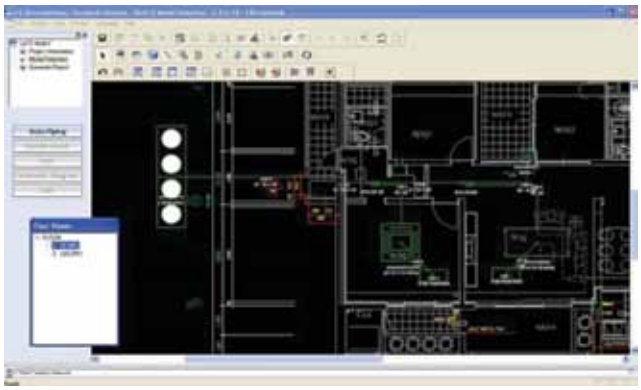
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Intuitive Design

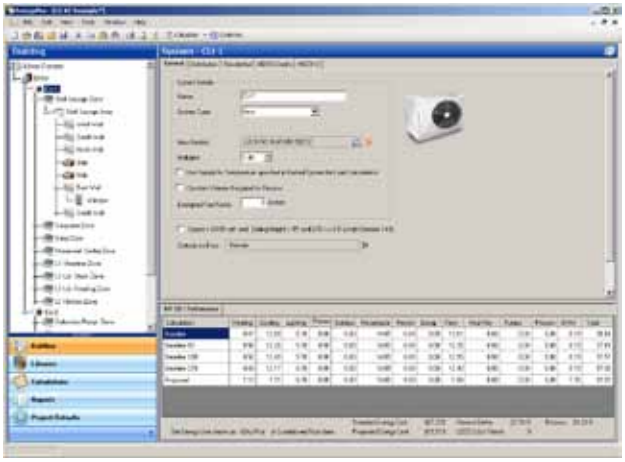
The LATS (LG Air Conditioning Technical Solution) Multi V design and layout software provides an intuitive, quick, and simple method to design a Multi V III refrigerant pipe system. LATS Multi V checks piping lengths and elevations, and it assists with the sizing of indoor and outdoor units by calculating component capacity based on design conditions. LATS Multi V can import AutoCAD™ drawings and lay out the Multi V III system to scale. When the designer finishes the AutoCAD system layout, all of the piping lengths will be calculated, and a drawing file with the Multi V system will be available for export and integration into the building drawing set.











Energy Modeling

LG stands behind performance. You will find Multi V III in the EnergyPro™ building energy simulation software from EnergySoft. EnergyPro is approved by the California Energy Commission to accurately model and provide necessary documentation to comply with the rigourous California Title 24 Standards, ASHRAE 90.1 compliance, and calculate the number of LEED credits earned by the design team. The software accurately models utility costs based on building design, orientation, location, and other design conditions.

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PRODUCT DATA

“Product Features and Benefits” on page 10
“Unit Nomenclature” on page 12
“General Data” on page 14
“Electrical Data” on page 27
“Indoor Unit Specifications” on page 29
“Indoor Unit Controls and Options” on page 32
“Outdoor Unit Dimensions” on page 33
“Heat Recovery Unit Dimensions” on page 39
“Acoustic Data” on page 42
“Refrigerant Flow Diagrams—Outdoor Units” on page 45
“Refrigerant Flow Diagram—Heat Recovery Unit” on page 65
“Wiring Diagrams—Outdoor Units” on page 66
“Wiring Diagram—Heat Recovery Unit” on page 74
“Accessories” on page 75

Multi V III

Multi V III outdoor units, equipped with inverters and dual compressor(s), offers superior load matching and long piping installation. The product works for optimizing power consumption in high-rise buildings. Add on features make it easy to upgrade the existing capacity at any time. Sophisticated electronic control and unique refrigerant flow gives these systems a unique capability to perform in extreme/ unusual working conditions.

Low Sound Levels

When Multi V III outdoor units operate fully loaded, they have one of the quietest sound levels in the industry. Sound is almost undetectable during off-peak operation. To promote a quiet, comfortable environment, the LG Multi V indoor units operate at sound levels as low as 23dB(A) and outdoor units as low as 57dB(A) at full load. LG customers often ask if the outdoor unit is running after commissioning is complete.

All rotating components are soft-started by the controller using digitally controlled inverters, which reduce undesirable noise caused by fans and compressors cycling on and off.

Comfort Control at Its Best

Tight temperature control through precise load matching maximizes the time that the indoor units remove moisture. This ensures maximum comfort and delivers the industry's best indoor humidity levels.

Precision Load Matching

Unlike traditional air conditioning control systems, which use thermostatic controls to maintain room temperatures, LG Multi V III controls continuously vary the indoor unit fan speed and refrigerant flow, indirectly providing lower and more consistent humidity levels in the conditioned space. The longer the indoor coil temperature is below the dew-point of the room in conjunction with air movement across the coil, the space humidity level will vary little, compared to technologies that cycle fans and compressors on and off multiple times per hour.

The outdoor unit responds by varying the compressor speed and outdoor fan motors as needed to maintain system operating pressure. As a result, the Multi V III system delivers precise space temperature control.

Advanced Compressor Technology

Oil Management

Oil migration is no longer a concern when choosing Multi V III. A three-stage oil management system ensures a safe level of oil in the compressor sump. An oil injection mechanism provides a consistent film of oil on moving parts, even at low speeds. The advanced compressor has a high side shell, which maintains high pressure, ensuring inverter compressor operation down to 20 Hz.

1. The compressor discharge is specially designed to minimize the amount of oil leaving the compressor.
2. An oil separator located on the discharge side of the compressor(s) separates the majority of oil mixed with the refrigerant gas stream during compression. Oil is returned to the compressor.
3. Oil-return algorithms flush the oil from the distribution system back to the compressor.

Inverter Driven

The scroll compressor is optimized to maximize compressor efficiency, which reduces power consumption and monthly utility bills. This latest inverter technology allows the LG Multi V III to vary the compressor motor shaft speed to deliver an appropriate amount of cooling to all indoor units. Precise refrigerant volume delivery translates into long periods with coil surface temperatures below dew point and minimizes compressor and fan component run time. Occupants remain comfortable while utility costs are reduced.

Simplified Installation

Cooling and heating systems that use the LG Multi V III simplify and reduce the mechanical and control system design time. The designer no longer has to be concerned with interconnecting chilled and condenser water piping, air-distribution duct systems, matching and selecting chillers, towers, pumps, coils, fans, air handlers, or Variable Air Volume (VAV) boxes.



Figure 1: Single-Frame Multi V III Outdoor Unit.

System integration with existing building management systems has never been easier. Because all of the Multi V III system components are engineered and provided by LG, the system components and controls come pre-engineered and do not need any custom programming from third-party contractors.

Operating Range

Multi V III product line includes capacities from six (6.0) to thirty-six (36.0) tons, and features a connected indoor unit combination ratio of 50% to 130%. Operating ranges include:

Heat Pump Units

- Cooling: 23°F DB to 122°F DB
- Heating: -4°F WB to +60°F WB

Heat Recovery Units

- Cooling: 23°F DB to 122°F DB
- Heating: -4°F WB to +60°F WB
- Cooling-based Synchronous: 14°F DB to 81°F DB
- Heating-based Synchronous: 14°F WB to 60°F WB

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PRODUCT FEATURES AND BENEFITS

Compact Size

Single-frame Multi V III units are available from six (6.0) up to twelve (12.0) tons. The 6-ton units have a footprint of 36-1/4" W x 29-15/16" D, 8-ton and 12-ton units have a footprint of 48-13/16" W x 29-15/16" D. Dual-frame units range from fourteen (14.0) to twenty-four (24.0) tons, and triple-frame units range from twenty-six (26.0) to thirty-six (36.0) tons.



Figure 2: Dual-Frame Multi V III Outdoor Unit.

Heat Transfer Efficiency

Fin Design with GoldFin™ Coating

All Multi V III outdoor units are provided with large surface coils made of copper tubes with aluminum fins designed to maximize unit operating efficiency over a wide range of ambient conditions.

Standard from the factory, every LG Multi V III outdoor coil fin surface is coated with LG's exclusive GoldFin™ anti-corrosive paint designed to prevent natural surface corrosion of the aluminum fins. This maintains heat transfer properties of the coil for an extended time.

A hydrophilic coating is applied to the outdoor unit coil fin surface over the GoldFin coating. This coating enhances the development of heavier water droplets gathering on the fin surface. As a result, the droplets roll off the fin surfaces, delaying the point when frost forms on the coil surface during heating operation. This coating also makes it possible to easily clean the outdoor unit coil using a mild soap.

Other Features

- Inverter Scroll Compressors
- Rapid Start
- Elevation Advantage
- Smaller Footprint
- Precision Load Matching
- Follows AHRI 1230



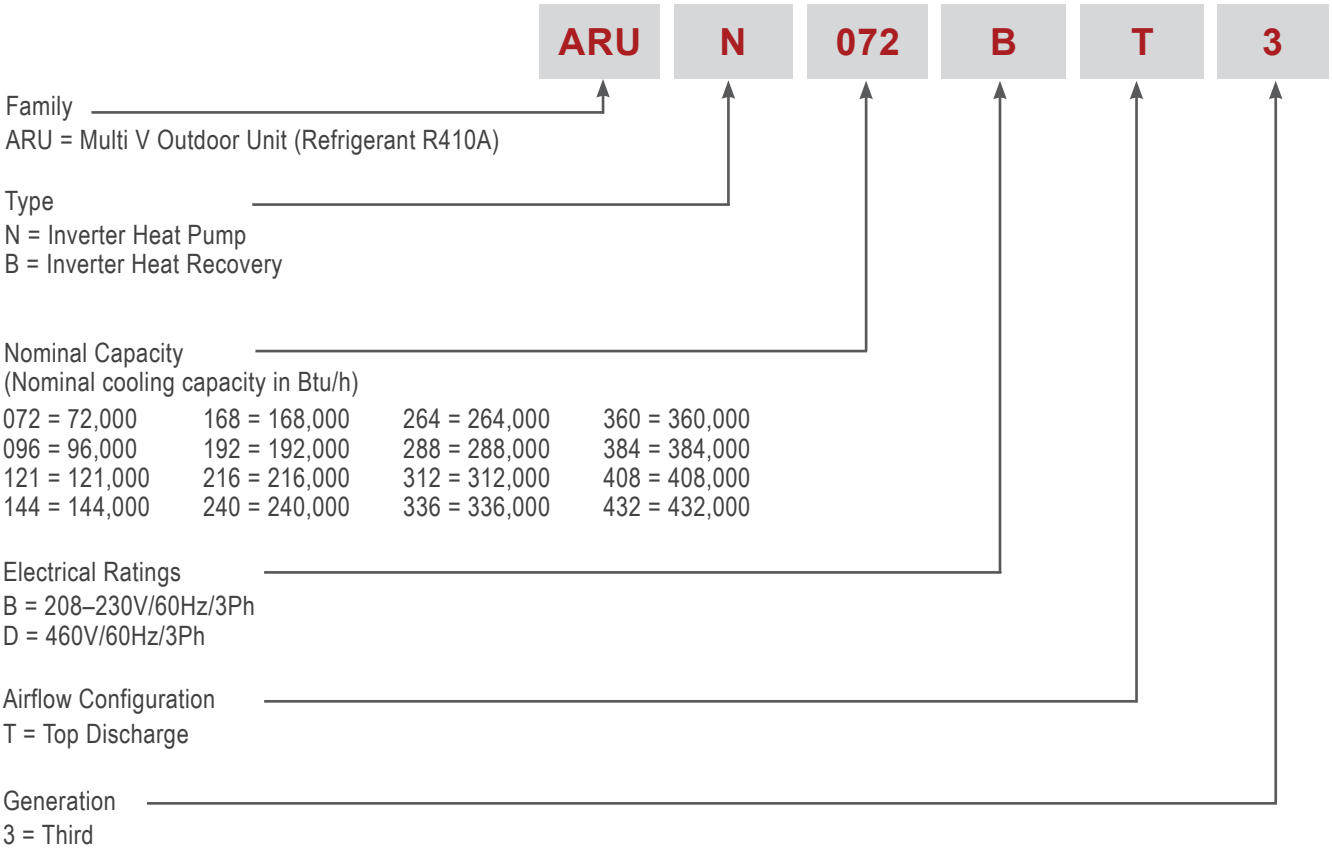
Figure 3: Triple-Frame Multi V III Outdoor Unit.

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UNIT NOMENCLATURE

Outdoor and Heat Recovery Units

Outdoor Units (ODU)



Family
ARU = Multi V Outdoor Unit (Refrigerant R410A)

Type
N = Inverter Heat Pump
B = Inverter Heat Recovery

Nominal Capacity
(Nominal cooling capacity in Btu/h)

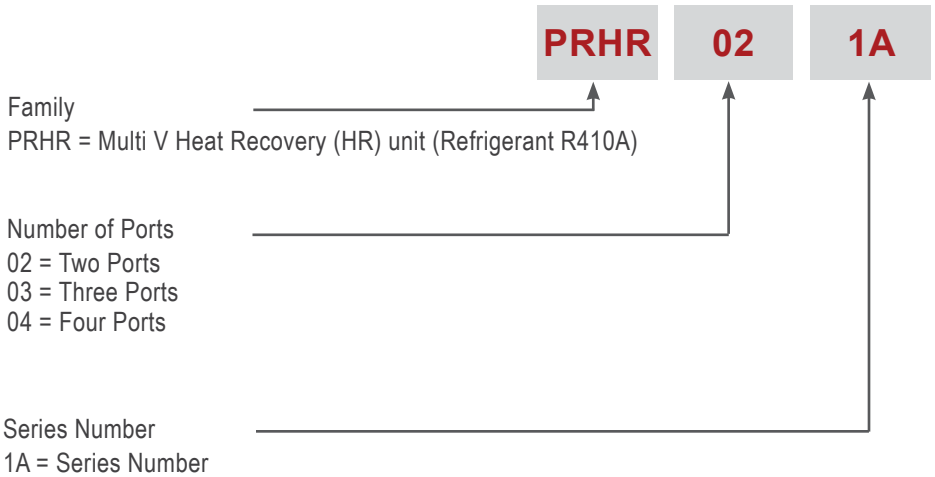
072 = 72,000	168 = 168,000	264 = 264,000	360 = 360,000
096 = 96,000	192 = 192,000	288 = 288,000	384 = 384,000
121 = 121,000	216 = 216,000	312 = 312,000	408 = 408,000
144 = 144,000	240 = 240,000	336 = 336,000	432 = 432,000

Electrical Ratings
B = 208–230V/60Hz/3Ph
D = 460V/60Hz/3Ph

Airflow Configuration
T = Top Discharge

Generation
3 = Third

Heat Recovery Units (HRU)



Family
PRHR = Multi V Heat Recovery (HR) unit (Refrigerant R410A)

Number of Ports
02 = Two Ports
03 = Three Ports
04 = Four Ports

Series Number
1A = Series Number

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UNIT NOMENCLATURE

Indoor Units

Indoor Units (IDU)

ARN	U	07	3	TN	C	2

Family
ARN = Multi V Indoor Unit
(Refrigerant R410A)

Type
U = DC Inverter Heat Pump

Nominal Capacity
(Nominal cooling capacity in Btu/h)

05 = 5,000	15 = 15,000	30 = 30,000	54 = 54,000
07 = 7,000	18 = 18,000	36 = 36,000	76 = 76,000
09 = 9,000	24 = 24,000	42 = 42,000	96 = 96,000
12 = 12,000	28 = 28,000	48 = 48,000	

Electrical Ratings
3 = 208–230V/60Hz/1Ph

Model

B1 = Ducted (low static, convertible)	S8 = Wall Mounted/Mirror
B2 = Ducted (low static, convertible)	SEL = Standard Wall Mounted
B3 = Ducted (low static, bottom return)	SER = Wall Mounted/Mirror
B4 = Ducted (low static, bottom return)	TJ = 1-Way Ceiling Cassette
B8 = Ducted (high static)	TL = 2-Way Ceiling Cassette
BG = Ducted (high static)	TM = 4-Way Ceiling Cassette (3' x 3')
BH = Ducted (high static)	TN = 4-Way Ceiling Cassette (3' x 3')
BR = Ducted (high static)	TP = 4-Way Ceiling Cassette (3' x 3')
CE = Floor Standing (small frame)	TQ = 4-Way Ceiling Cassette (2' x 2')
CF = Floor Standing (large frame)	TR = 4-Way Ceiling Cassette (2' x 2')
NJ = Vertical / Horizontal Air Handling Unit	VE = Convertible Surface Mounted
NK = Vertical / Horizontal Air Handling Unit	VJ = Ceiling Suspended
S5 = Standard Wall Mounted	

Feature

A = Basic	L = Neo Plasma
C = Plasma Filter	R = Mirror and Neo Plasma
G = Low Static	U = Uncased

Generation
2 or A = Second

Product Data

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GENERAL DATA

ARUN Series Heat Pump Outdoor Unit Specifications

Table 1: Single-Frame 208-230V Heat Pump Units.

Combination Unit Model Number		6.0 Ton ARUN072BT3	8.0 Ton ARUN096BT3	10.0 Ton ARUN121BT3	12.0 ARUN144BT3
Individual Component Model Numbers		-	-	-	-
Cooling Performance					
Nominal Cooling Capacity (Btu/h)[1]		72,000	96,000	120,000	144,000
Rated Cooling Capacity (Btu/h)[2]		69,000	92,000	114,000	138,000
Heating Performance					
Nominal Heating Capacity (Btu/h)[1]		81,000	108,000	135,000	162,000
Rated Heating Capacity (Btu/h)[2]		77,000	103,000	129,000	154,000
Operating Range					
Cooling (°F DB)		23 - 122	23 - 122	23 - 122	23 - 122
Heating (°F WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor					
Inverter Quantity		HSS DC Scroll x 1	HSS DC Scroll x 1	HSS DC Scroll x 1	HSS DC Scroll x 1
Constant Quantity		-	1	1	1
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)					
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75 x 1	0.6 x 2	0.6 x 2	0.6 x 2
Motor/Drive		Brushless Digitally Controlled/Direct			
Operating Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		6,300	7,400	8,500	8,800
Unit Data					
Refrigerant Type		R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. Number Indoor Units/System[3]		13	16	20	23
Sound Pressure dB(A)[4]		57	58	58	58
Net Unit Weight (lbs.)		418	617	617	617
Shipping Weight (lbs.)		441	650	650	650
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger					
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic			
Rows/Fins per inch		2/14	3/14	3/14	3/14
Piping[7]					
Liquid Line Connection (in., OD)		3/8 Braze	3/8 Braze	1/2 Braze	1/2 Braze
Vapor Line Connection (in., OD)		3/4 Braze	7/8 Braze	1-1/8 Braze	1-1/8 Braze
Factory Charge lbs. of R410A		12.1	20.7	20.7	20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 27 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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Table 2: Dual-Frame 208-230V Heat Pump Units.

Combination Unit Model Number		14.0 Ton ARUN168BT3	16.0 Ton ARUN192BT3	18.0 Ton ARUN216BT3	20.0 ARUN240BT3	22.0 ARUN264BT3	24.0 ARUN288BT3
Individual Component Model Numbers		ARUN072BT3x1 + ARUN096BT3x1	ARUN072BT3x1 + ARUN121BT3x1	ARUN072BT3x1 + ARUN144BT3x1	ARUN096BT3x1 + ARUN144BT3x1	ARUN121BT3x1 + ARUN144BT3x1	ARUN144BT3 x 2
Cooling Performance							
Nominal Cooling Cap. (Btu/h)[1]		168,000	192,000	216,000	240,000	264,000	288,000
Rated Cooling Cap. (Btu/h)[2]		160,000	184,000	206,000	228,000	250,000	274,000
Heating Performance							
Nominal Heating Cap. (Btu/h)[1]		189,000	216,000	243,000	270,000	297,000	324,000
Rated Heating Cap. (Btu/h)[2]		180,000	206,000	240,000	256,000	282,000	308,000
Operating Range							
Cooling (°F DB)		23 - 122	23 - 122	23 - 122	23 - 122	23 - 122	23 - 122
Heating (°F WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor							
Inverter Quantity		HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2
Constant Quantity		1	1	1	2	2	2
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)							
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75 x 1 + 0.6 x 2	0.75 x 1 + 0.6 x 2	0.75 x 1 + 0.6 x 2	0.6 x 2 + 0.6 x 2	0.6 x 2 + 0.6 x 2	0.6 x 2 + 0.6 x 2
Motor/Drive		Brushless Digitally Controlled/Direct					
Oper. Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		13,700	14,800	15,100	16,200	17,300	17,600
Unit Data							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. No. Indoor Units/System[3]		29	32	35	39	42	45
Sound Pressure dB(A)[4]		61	61	61	61	61	61
Net Unit Weight (lbs.)		418 + 617	418 + 617	418 + 617	617 + 617	617 + 617	617 + 617
Shipping Weight (lbs.)		441 + 650	441 + 650	441 + 650	650 + 650	650 + 650	650 + 650
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger							
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic					
Rows/Fins per inch		2/14 + 3/14	2/14 + 3/14	2/14 + 3/14	2 x 3/14	2 x 3/14	2 x 3/14
Piping[7]							
Liquid Line Conn. (in., OD)		3/8 + 3/8 Braze	3/8 + 1/2 Braze	3/8 + 1/2 Braze	3/8 + 1/2 Braze	1/2 + 1/2 Braze	1/2 + 1/2 Braze
Vapor Line Conn. (in., OD)		3/4 + 7/8 Braze	3/4 + 1-1/8 Braze	3/4 + 1-1/8 Braze	7/8 + 1-1/8 Braze	1-1/8 + 1-1/8 Braze	1-1/8 + 1-1/8 Braze
Factory Charge lbs. of R410A		12.1 + 20.7	12.1 + 20.7	12.1 + 20.7	20.7 + 20.7	20.7 + 20.7	20.7 + 20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 27 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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GENERAL DATA

ARUN Series Heat Pump Outdoor Unit Specifications

Table 3: Triple-Frame 208-230V Heat Pump Units.

Combination Unit Model Number		26.0 Ton ARUN312BT3	28.0 Ton ARUN336BT3	30.0 Ton ARUN360BT3	32.0 ARUN384BT3	34.0 ARUN408BT3	36.0 ARUN432BT3
Individual Component Model Numbers		ARUN072BT3x1 + ARUN096BT3x1 + ARUN144BT3x1	ARUN072BT3x1 + ARUN121BT3x1 + ARUN144BT3x1	ARUN072BT3x1 + ARUN144BT3x2	ARUN096BT3x1 + ARUN144BT3x2	ARUN121BT3x1 + ARUN144BT3x2	ARUN144BT3 x 3
Cooling Performance							
Nominal Cooling Cap. (Btu/h)[1]		312,000	336,000	360,000	384,000	408,000	432,000
Rated Cooling Cap. (Btu/h)[2]		296,000	N/A	N/A	N/A	N/A	N/A
Heating Performance							
Nominal Heating Cap. (Btu/h)[1]		351,000	378,000	405,000	432,000	459,000	486,000
Rated Heating Cap. (Btu/h)[2]		334,000	N/A	N/A	N/A	N/A	N/A
Operating Range							
Cooling (°F DB)		23 - 122	23 - 122	23 - 122	23 - 122	23 - 122	23 - 122
Heating (°F WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor							
Inverter Quantity		HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3
Constant Quantity		2	2	2	3	3	3
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)							
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75x1+0.6x2+0.6x2	0.75x1+0.6x2+0.6x2	0.75x1+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2
Motor/Drive		Brushless Digitally Controlled/Direct					
Operating Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		22,500	23,600	23,900	25,000	26,100	26,400
Unit Data							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. No. Indoor Units/System[3]		52	55	58	61	64	64
Sound Pressure dB(A)[4]		62	62	62	63	63	63
Net Unit Weight (lbs.)		418 + 617 + 617	418 + 617 + 617	418 + 617 + 617	617 + 617 + 617	617 + 617 + 617	617 + 617 + 617
Shipping Weight (lbs.)		441 + 650 + 650	441 + 650 + 650	441 + 650 + 650	650 + 650 + 650	650 + 650 + 650	650 + 650 + 650
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger							
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic					
Rows/Fins per inch		2/14 + (2 x 3/14)	2/14 + (2 x 3/14)	2/14 + (2 x 3/14)	3 x 3/14	3 x 3/14	3 x 3/14
Piping[7]							
Liquid Line Conn. (in., OD)		3/8+3/8+1/2 Braze	3/8+1/2+1/2 Braze	3/8+1/2+1/2 Braze	3/8+1/2+1/2 Braze	1/2+1/2+1/2 Braze	1/2+1/2+1/2 Braze
Vapor Line Conn (in., OD)		3/4+7/8+1-1/8 Braze	3/4+1-1/8+1-1/8 Braze	3/4+1-1/8+1-1/8 Braze	7/8+1-1/8+1-1/8 Braze	1-1/8+1-1/8+1-1/8 Braze	1-1/8+1-1/8+1-1/8 Braze
Factory Charge lbs. of R410A		12.1 + 20.7 + 20.7	12.1 + 20.7 + 20.7	12.1 + 20.7 + 20.7	20.7 + 20.7 + 20.7	20.7 + 20.7 + 20.7	20.7 + 20.7 + 20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 27 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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Table 4: Single-Frame 460V Heat Pump Units.

Combination Unit Model Number		6.0 Ton ARUN072DT3	8.0 Ton ARUN096DT3	10.0 Ton ARUN121DT3	12.0 ARUN144DT3
Individual Component Model Numbers		-	-	-	-
Cooling Performance					
Nominal Cooling Capacity (Btu/h)[1]		72,000	96,000	120,000	144,000
Rated Cooling Capacity (Btu/h)[2]		69,000	92,000	114,000	138,000
Heating Performance					
Nominal Heating Capacity (Btu/h)[1]		81,000	108,000	135,000	162,000
Rated Heating Capacity (Btu/h)[2]		77,000	103,000	129,000	154,000
Operating Range					
Cooling (°F DB)		23 - 122	23 - 122	23 - 122	23 - 122
Heating (°F WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor					
Inverter Quantity		HSS DC Scroll x 1	HSS DC Scroll x 1	HSS DC Scroll x 1	HSS DC Scroll x 1
Constant Quantity		-	1	1	1
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)					
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75 x 1	0.6 x 2	0.6 x 2	0.6 x 2
Motor/Drive		Brushless Digitally Controlled/Direct			
Operating Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		6,300	7,400	8,500	8,800
Unit Data					
Refrigerant Type		R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. Number Indoor Units/System[3]		13	16	20	23
Sound Pressure dB(A)[4]		57	58	58	58
Net Unit Weight (lbs.)		418	594	594	594
Shipping Weight (lbs.)		441	628	628	628
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger					
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic			
Rows/Fins per inch		2/14	3/14	3/14	3/14
Piping[7]					
Liquid Line Connection (in., OD)		3/8 Braze	3/8 Braze	1/2 Braze	1/2 Braze
Vapor Line Connection (in., OD)		3/4 Braze	7/8 Braze	1-1/8 Braze	1-1/8 Braze
Factory Charge lbs. of R410A		12.1	20.7	20.7	20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 27 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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GENERAL DATA

ARUN Series Heat Pump Outdoor Unit Specifications

Table 5: Dual-Frame 460V Heat Pump Units.

Combination Unit Model Number		14.0 Ton ARUN168DT3	16.0 Ton ARUN192DT3	18.0 Ton ARUN216DT3	20.0 ARUN240DT3	22.0 ARUN264DT3	24.0 ARUN288DT3
Individual Component Model Numbers		ARUN072DT3x1 + ARUN096DT3x1	ARUN072DT3x1 + ARUN121DT3x1	ARUN072DT3x1 + ARUN144DT3x1	ARUN096DT3x1 + ARUN144DT3x1	ARUN121DT3x1 + ARUN144DT3x1	ARUN144DT3 x 2
Cooling Performance							
Nominal Cooling Cap. (Btu/h)[1]		168,000	192,000	216,000	240,000	264,000	288,000
Rated Cooling Cap. (Btu/h)[2]		160,000	184,000	206,000	228,000	250,000	274,000
Heating Performance							
Nominal Heating Cap. (Btu/h)[1]		189,000	216,000	243,000	270,000	297,000	324,000
Rated Heating Cap. (Btu/h)[2]		180,000	206,000	240,000	256,000	282,000	308,000
Operating Range							
Cooling (ºF DB)		23 - 122	23 - 122	23 - 122	23 - 122	23 - 122	23 - 122
Heating (ºF WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor							
Inverter Quantity		HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2
Constant Quantity		1	1	1	2	2	2
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)							
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75 x 1 + 0.6 x 2	0.75 x 1 + 0.6 x 2	0.75 x 1 + 0.6 x 2	0.6 x 2 + 0.6 x 2	0.6 x 2 + 0.6 x 2	0.6 x 2 + 0.6 x 2
Motor/Drive		Brushless Digitally Controlled/Direct					
Oper. Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		13,700	14,800	15,100	16,200	17,300	17,600
Unit Data							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. No. Indoor Units/System[3]		29	32	35	39	42	45
Sound Pressure dB(A)[4]		61	61	61	61	61	61
Net Unit Weight (lbs.)		418 + 594	418 + 594	418 + 594	594 + 594	594 + 594	594 + 594
Shipping Weight (lbs.)		441 + 628	441 + 628	441 + 628	628 + 628	628 + 628	628 + 628
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger							
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic					
Rows/Fins per inch		2/14 + 3/14	2/14 + 3/14	2/14 + 3/14	2 x 3/14	2 x 3/14	2 x 3/14
Piping[7]							
Liquid Line Connection (in., OD)		3/8 + 3/8 Braze	3/8 + 1/2 Braze	3/8 + 1/2 Braze	3/8 + 1/2 Braze	1/2 + 1/2 Braze	1/2 + 1/2 Braze
Vapor Line Connection (in., OD)		3/4 + 7/8 Braze	3/4 + 1-1/8 Braze	3/4 + 1-1/8 Braze	7/8 + 1-1/8 Braze	1-1/8 + 1-1/8 Braze	1-1/8 + 1-1/8 Braze
Factory Charge lbs. of R410A		12.1 + 20.7	12.1 + 20.7	12.1 + 20.7	20.7 + 20.7	20.7 + 20.7	20.7 + 20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 27 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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Table 6: Triple-Frame 460V Heat Pump Units.

Combination Unit Model Number		26.0 Ton ARUN312DT3	28.0 Ton ARUN336DT3	30.0 Ton ARUN360DT3	32.0 ARUN384DT3	34.0 ARUN408DT3	36.0 ARUN432DT3
Individual Component Model Numbers		ARUN072DT3x1 + ARUN096DT3x1 + ARUN144DT3x1	ARUN072DT3x1 + ARUN121DT3x1 + ARUN144DT3x1	ARUN072DT3x1 + ARUN144DT3x2	ARUN096DT3x1 + ARUN144DT3x2	ARUN121DT3x1 + ARUN144DT3x2	ARUN144DT3 x 3
Cooling Performance							
Nominal Cooling Cap. (Btu/h)[1]		312,000	336,000	360,000	384,000	408,000	432,000
Rated Cooling Cap. (Btu/h)[2]		296,000	N/A	N/A	N/A	N/A	N/A
Heating Performance							
Nominal Heating Cap. (Btu/h)[1]		351,000	378,000	405,000	432,000	459,000	486,000
Rated Heating Cap. (Btu/h)[2]		334,000	N/A	N/A	N/A	N/A	N/A
Operating Range							
Cooling (ºF DB)		23 - 122	23 - 122	23 - 122	23 - 122	23 - 122	23 - 122
Heating (ºF WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor							
Inverter Quantity		HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3
Constant Quantity		2	2	2	3	3	3
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)							
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75x1+0.6x2+0.6x2	0.75x1+0.6x2+0.6x2	0.75x1+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2
Motor/Drive		Brushless Digitally Controlled/Direct					
Oper. Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		22,500	23,600	23,900	25,000	26,100	26,400
Unit Data							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. No. Indoor Units/System[3]		52	55	58	61	64	64
Sound Pressure dB(A)[4]		62	62	62	63	63	63
Net Unit Weight (lbs.)		418 + 594 + 594	418 + 594 + 594	418 + 594 + 594	594 + 594 + 594	594 + 594 + 594	594 + 594 + 594
Shipping Weight (lbs.)		441 + 628 + 628	441 + 628 + 628	441 + 628 + 628	628 + 628 + 628	628 + 628 + 628	628 + 628 + 628
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger							
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic					
Rows/Fins per inch		2/14 + (2 x 3/14)	2/14 + (2 x 3/14)	2/14 + (2 x 3/14)	3 x 3/14	3 x 3/14	3 x 3/14
Piping[7]							
Liquid Line Connection (in., OD)		3/8+3/8+1/2 Braze	3/8+1/2+1/2 Braze	3/8+1/2+1/2 Braze	3/8+1/2+1/2 Braze	1/2+1/2+1/2 Braze	1/2+1/2+1/2 Braze
Vapor Line Connection (in., OD)		3/4+7/8+1-1/8 Braze	3/4+1-1/8+1-1/8 Braze	3/4+1-1/8+1-1/8 Braze	7/8+1-1/8+1-1/8 Braze	1-1/8+1-1/8+1-1/8 Braze	1-1/8+1-1/8+1-1/8 Braze
Factory Charge lbs. of R410A		12.1 + 20.7 + 20.7	12.1 + 20.7 + 20.7	12.1 + 20.7 + 20.7	20.7 + 20.7 + 20.7	20.7 + 20.7 + 20.7	20.7 + 20.7 + 20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 27 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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GENERAL DATA

ARUB Series Heat Recovery Outdoor Unit Specifications

Table 7: Single-Frame 208-230V Heat Recovery Units.

Combination Unit Model Number		6.0 Ton ARUB072BT3	8.0 Ton ARUB096BT3	10.0 Ton ARUB121BT3	12.0 ARUB144BT3
Individual Component Model Numbers		-	-	-	-
Cooling Performance					
Nominal Cooling Capacity (Btu/h)[1]		72,000	96,000	120,000	144,000
Rated Cooling Capacity (Btu/h)[2]		69,000	92,000	114,000	138,000
Heating Performance					
Nominal Heating Capacity (Btu/h)[1]		81,000	108,000	135,000	162,000
Rated Heating Capacity (Btu/h)[2]		77,000	103,000	129,000	154,000
Operating Range					
Cooling (°F DB)		23 - 122	23 - 122	23 - 122	23 - 122
Heating (°F WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor					
Inverter Quantity		HSS DC Scroll x 1	HSS DC Scroll x 1	HSS DC Scroll x 1	HSS DC Scroll x 1
Constant Quantity		-	1	1	1
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)					
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75 x 1	0.6 x 2	0.6 x 2	0.6 x 2
Motor/Drive		Brushless Digitally Controlled/Direct			
Operating Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		6,300	7,400	8,500	8,800
Unit Data					
Refrigerant Type		R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. Number Indoor Units/System[3]		13	16	20	23
Sound Pressure dB(A)[4]		57	58	58	58
Net Unit Weight (lbs.)		418	617	617	617
Shipping Weight (lbs.)		441	650	650	650
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger					
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic			
Rows/Fins per inch		2/14	3/14	3/14	3/14
Piping[7]					
Liquid Line Connection (in., OD)		3/8 Braze	3/8 Braze	1/2 Braze	1/2 Braze
Low Pressure Vapor Line Conn. (in., OD)		3/4 Braze	7/8 Braze	1-1/8 Braze	1-1/8 Braze
High Pressure Vapor Line Conn. (in., OD)		5/8 Braze	3/4 Braze	3/4 Braze	7/8 Braze
Factory Charge lbs. of R410A		12.1	20.7	20.7	20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 28 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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Table 8: Dual-Frame 208-230V Heat Recovery Units.

Combination Unit Model Number		14.0 Ton ARUB168BT3	16.0 Ton ARUB192BT3	18.0 Ton ARUB216BT3	20.0 ARUB240BT3	22.0 ARUB264BT3	24.0 ARUB288BT3
Individual Component Model Numbers		ARUB072BT3x1 + ARUB096BT3x1	ARUB072BT3x1 + ARUB121BT3x1	ARUB072BT3x1 + ARUB144BT3x1	ARUB096BT3x1 + ARUB144BT3x1	ARUB121BT3x1 + ARUB144BT3x1	ARUB144BT3 x 2
Cooling Performance							
Nominal Cooling Cap. (Btu/h)[1]		168,000	192,000	216,000	240,000	264,000	288,000
Rated Cooling Cap. (Btu/h)[2]		160,000	184,000	206,000	228,000	250,000	274,000
Heating Performance							
Nominal Heating Cap. (Btu/h)[1]		189,000	216,000	243,000	270,000	297,000	324,000
Rated Heating Cap. (Btu/h)[2]		180,000	206,000	240,000	256,000	282,000	308,000
Operating Range							
Cooling (°F DB)		23 - 122	23 - 122	23 - 122	23 - 122	23 - 122	23 - 122
Heating (°F WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor							
Inverter Quantity		HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2
Constant Quantity		1	1	1	2	2	2
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)							
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75 x 1 + 0.6 x 2	0.75 x 1 + 0.6 x 2	0.75 x 1 + 0.6 x 2	0.6 x 2 + 0.6 x 2	0.6 x 2 + 0.6 x 2	0.6 x 2 + 0.6 x 2
Motor/Drive		Brushless Digitally Controlled/Direct					
Oper. Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		13,700	14,800	15,100	16,200	17,300	17,600
Unit Data							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. No. Indoor Units/System[3]		29	32	35	39	42	45
Sound Pressure dB(A)[4]		61	61	61	61	61	61
Net Unit Weight (lbs.)		418 + 617	418 + 617	418 + 617	617 + 617	617 + 617	617 + 617
Shipping Weight (lbs.)		441 + 650	441 + 650	441 + 650	650 + 650	650 + 650	650 + 650
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger							
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic					
Rows/Fins per inch		2/14 + 3/14	2/14 + 3/14	2/14 + 3/14	2 x 3/14	2 x 3/14	2 x 3/14
Piping[7]							
Liquid Line Conn. (in., OD)		3/8 + 3/8 Braze	3/8 + 1/2 Braze	3/8 + 1/2 Braze	3/8 + 1/2 Braze	1/2 + 1/2 Braze	1/2 + 1/2 Braze
Low Pressure Vapor Line Conn. (in., OD)		3/4 + 7/8 Braze	3/4 + 1-1/8 Braze	3/4 + 1-1/8 Braze	7/8 + 1-1/8 Braze	1-1/8 + 1-1/8 Braze	1-1/8 + 1-1/8 Braze
High Pressure Vapor Line Conn. (in., OD)		5/8 + 3/4 Braze	5/8 + 3/4 Braze	5/8 + 7/8 Braze	3/4 + 7/8 Braze	3/4 + 7/8 Braze	7/8 + 7/8 Braze
Factory Charge lbs. of R410A		12.1 + 20.7	12.1 + 20.7	12.1 + 20.7	20.7 + 20.7	20.7 + 20.7	20.7 + 20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 28 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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GENERAL DATA

ARUB Series Heat Recovery Outdoor Unit Specifications

Table 9: Triple-Frame 208-230V Heat Recovery Units.

Combination Unit Model Number		26.0 Ton ARUB312BT3	28.0 Ton ARUB336BT3	30.0 Ton ARUB360BT3	32.0 ARUB384BT3	34.0 ARUB408BT3	36.0 ARUB432BT3
Individual Component Model Numbers		ARUB072BT3x1 + ARUB096BT3x1 + ARUB144BT3x1	ARUB072BT3x1 + ARUB121BT3x1 + ARUB144BT3x1	ARUB072BT3x1 + ARUB144BT3x2	ARUB096BT3x1 + ARUB144BT3x2	ARUB121BT3x1 + ARUB144BT3x2	ARUB144BT3 x 3
Cooling Performance							
Nominal Cooling Cap. (Btu/h)[1]		312,000	336,000	360,000	384,000	408,000	432,000
Rated Cooling Cap. (Btu/h)[2]		296,000	N/A	N/A	N/A	N/A	N/A
Heating Performance							
Nominal Heating Cap. (Btu/h)[1]		351,000	378,000	405,000	432,000	459,000	486,000
Rated Heating Cap. (Btu/h)[2]		334,000	N/A	N/A	N/A	N/A	N/A
Operating Range							
Cooling (°F DB)		23 - 122	23 - 122	23 - 122	23 - 122	23 - 122	23 - 122
Heating (°F WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor							
Inverter Quantity		HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3
Constant Quantity		2	2	2	3	3	3
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)							
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75x1+0.6x2+0.6x2	0.75x1+0.6x2+0.6x2	0.75x1+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2
Motor/Drive		Brushless Digitally Controlled/Direct					
Oper. Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		22,500	23,600	23,900	25,000	26,100	26,400
Unit Data							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. No. Indoor Units/System[3]		52	55	58	61	64	64
Sound Pressure dB(A)[4]		62	62	62	63	63	63
Net Unit Weight (lbs.)		418 + 617 + 617	418 + 617 + 617	418 + 617 + 617	617 + 617 + 617	617 + 617 + 617	617 + 617 + 617
Shipping Weight (lbs.)		441 + 650 + 650	441 + 650 + 650	441 + 650 + 650	650 + 650 + 650	650 + 650 + 650	650 + 650 + 650
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger							
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic					
Rows/Fins per inch		2/14 + (2 x 3/14)	2/14 + (2 x 3/14)	2/14 + (2 x 3/14)	3 x 3/14	3 x 3/14	3 x 3/14
Piping[7]							
Liquid Line Conn. (in., OD)		3/8+3/8+1/2 Braze	3/8+1/2+1/2 Braze	3/8+1/2+1/2 Braze	3/8+1/2+1/2 Braze	1/2+1/2+1/2 Braze	1/2+1/2+1/2 Braze
Low Pressure Vapor Line Connection (in., OD)		3/4+7/8+1-1/8 Braze	3/4+1-1/8+1-1/8 Braze	3/4+1-1/8+1-1/8 Braze	7/8+1-1/8+1-1/8 Braze	1-1/8+1-1/8+1-1/8 Braze	1-1/8+1-1/8+1-1/8 Braze
High Pressure Vapor Line Connection (in., OD)		5/8 + 3/4 + 7/8 Braze	5/8 + 3/4 + 7/8 Braze	5/8 + 3/4 + 7/8 Braze	3/4 + 7/8 + 7/8 Braze	3/4 + 7/8 + 7/8 Braze	7/8 + 7/8 + 7/8 Braze
Factory Charge lbs. of R410A		12.1 + 20.7 + 20.7	12.1 + 20.7 + 20.7	12.1 + 20.7 + 20.7	20.7 + 20.7 + 20.7	20.7 + 20.7 + 20.7	20.7 + 20.7 + 20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 28 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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Table 10: Single-Frame 460V Heat Recovery Units.

Combination Unit Model Number		6.0 Ton ARUB072DT3	8.0 Ton ARUB096DT3	10.0 Ton ARUB121DT3	12.0 ARUB144DT3
Individual Component Model Numbers		-	-	-	-
Cooling Performance					
Nominal Cooling Capacity (Btu/h)[1]		72,000	96,000	120,000	144,000
Rated Cooling Capacity (Btu/h)[2]		69,000	92,000	114,000	138,000
Heating Performance					
Nominal Heating Capacity (Btu/h)[1]		81,000	108,000	135,000	162,000
Rated Heating Capacity (Btu/h)[2]		77,000	103,000	129,000	154,000
Operating Range					
Cooling (°F DB)		23 - 122	23 - 122	23 - 122	23 - 122
Heating (°F WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor					
Inverter Quantity		HSS DC Scroll x 1	HSS DC Scroll x 1	HSS DC Scroll x 1	HSS DC Scroll x 1
Constant Quantity		-	1	1	1
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)					
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75 x 1	0.6 x 2	0.6 x 2	0.6 x 2
Motor/Drive		Brushless Digitally Controlled/Direct			
Operating Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		6,300	7,400	8,500	8,800
Unit Data					
Refrigerant Type		R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. Number Indoor Units/System[3]		13	16	20	23
Sound Pressure dB(A)[4]		57	58	58	58
Net Unit Weight (lbs.)		418	617	617	617
Shipping Weight (lbs.)		441	650	650	650
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger					
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic			
Rows/Fins per inch		2/14	3/14	3/14	3/14
Piping[7]					
Liquid Line Connection (in., OD)		3/8 Braze	3/8 Braze	1/2 Braze	1/2 Braze
Low Pressure Vapor Line Conn. (in., OD)		3/4 Braze	7/8 Braze	1-1/8 Braze	1-1/8 Braze
High Pressure Vapor Line Conn. (in., OD)		5/8 Braze	3/4 Braze	3/4 Braze	7/8 Braze
Factory Charge lbs. of R410A		12.1	20.7	20.7	20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 28 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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GENERAL DATA

ARUB Series Heat Recovery Outdoor Unit Specifications

Table 11: Dual-Frame 460V Heat Recovery Units.

Combination Unit Model Number		14.0 Ton ARUB168DT3	16.0 Ton ARUB192DT3	18.0 Ton ARUB216DT3	20.0 ARUB240DT3	22.0 ARUB264DT3	24.0 ARUB288DT3
Individual Component Model Numbers		ARUB072DT3x1 + ARUB096DT3x1	ARUB072DT3x1 + ARUB121DT3x1	ARUB072DT3x1 + ARUB144DT3x1	ARUB096DT3x1 + ARUB144DT3x1	ARUB121DT3x1 + ARUB144DT3x1	ARUB144DT3 x 2
Cooling Performance							
Nominal Cooling Cap.(Btu/h)[1]		168,000	192,000	216,000	240,000	264,000	288,000
Rated Cooling Cap. (Btu/h)[2]		160,000	184,000	206,000	228,000	250,000	274,000
Heating Performance							
Nominal Heating Cap. (Btu/h)[1]		189,000	216,000	243,000	270,000	297,000	324,000
Rated Heating Cap. (Btu/h)[2]		180,000	206,000	240,000	256,000	282,000	308,000
Operating Range							
Cooling (ºF DB)		23 - 122	23 - 122	23 - 122	23 - 122	23 - 122	23 - 122
Heating (ºF WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor							
Inverter Quantity		HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2	HSS DC Scroll x 2
Constant Quantity		1	1	1	2	2	2
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)							
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75 x 1 + 0.6 x 2	0.75 x 1 + 0.6 x 2	0.75 x 1 + 0.6 x 2	0.6 x 2 + 0.6 x 2	0.6 x 2 + 0.6 x 2	0.6 x 2 + 0.6 x 2
Motor/Drive		Brushless Digitally Controlled/Direct					
Oper. Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		13,700	14,800	15,100	16,200	17,300	17,600
Unit Data							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. No. Indoor Units/System[3]		29	32	35	39	42	45
Sound Pressure dB(A)[4]		61	61	61	61	61	61
Net Unit Weight (lbs.)		418 + 617	418 + 617	418 + 617	617 + 617	617 + 617	617 + 617
Shipping Weight (lbs.)		441 + 650	441 + 650	441 + 650	650 + 650	650 + 650	650 + 650
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger							
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic					
Rows/Fins per inch		2/14 + 3/14	2/14 + 3/14	2/14 + 3/14	2 x 3/14	2 x 3/14	2 x 3/14
Piping[7]							
Liquid Line Conn. (in., OD)		3/8 + 3/8 Braze	3/8 + 1/2 Braze	3/8 + 1/2 Braze	3/8 + 1/2 Braze	1/2 + 1/2 Braze	1/2 + 1/2 Braze
Low Pressure Vapor Line Conn. (in., OD)		3/4 + 7/8 Braze	3/4 + 1-1/8 Braze	3/4 + 1-1/8 Braze	7/8 + 1-1/8 Braze	1-1/8 + 1-1/8 Braze	1-1/8 + 1-1/8 Braze
High Pressure Vapor Line Conn. (in., OD)		5/8 + 3/4 Braze	5/8 + 3/4 Braze	5/8 + 7/8 Braze	3/4 + 7/8 Braze	3/4 + 7/8 Braze	7/8 + 7/8 Braze
Factory Charge lbs. of R410A		12.1 + 20.7	12.1 + 20.7	12.1 + 20.7	20.7 + 20.7	20.7 + 20.7	20.7 + 20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 28 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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ARUB Series Heat Recovery Outdoor Unit Specifications

Table 12: Triple-Frame 460V Heat Recovery Units.

Combination Unit Model Number		26.0 Ton ARUB312DT3	28.0 Ton ARUB336DT3	30.0 Ton ARUB360DT3	32.0 ARUB384DT3	34.0 ARUB408DT3	36.0 ARUB432DT3
Individual Component Model Numbers		ARUB072DT3x1 + ARUB096DT3x1 + ARUB144DT3x1	ARUB072DT3x1 + ARUB121DT3x1 + ARUB144DT3x1	ARUB072DT3x1 + ARUB144DT3x2	ARUB096DT3x1 + ARUB144DT3x2	ARUB121DT3x1 + ARUB144DT3x2	ARUB144DT3 x 3
Cooling Performance							
Nominal Cooling Cap. (Btu/h)[1]		312,000	336,000	360,000	384,000	408,000	432,000
Rated Cooling Cap. (Btu/h)[2]		296,000	N/A	N/A	N/A	N/A	N/A
Heating Performance							
Nominal Heating Cap. (Btu/h)[1]		351,000	378,000	405,000	432,000	459,000	486,000
Rated Heating Cap. (Btu/h)[2]		334,000	N/A	N/A	N/A	N/A	N/A
Operating Range							
Cooling (ºF DB)		23 - 122	23 - 122	23 - 122	23 - 122	23 - 122	23 - 122
Heating (ºF WB)		-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60	-4 - +60
Compressor							
Inverter Quantity		HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3	HSS DC Scroll x 3
Constant Quantity		2	2	2	3	3	3
Oil/Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
Fan (Top Discharge)							
Type		Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)	Propeller (BLDC)
Motor Output (kW) x Qty.		0.75x1+0.6x2+0.6x2	0.75x1+0.6x2+0.6x2	0.75x1+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2	0.6x2+0.6x2+0.6x2
Motor/Drive		Brushless Digitally Controlled/Direct					
Oper. Range (RPM)	Cooling	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050	0–1,050
	Heating	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050	80–1,050
Maximum Air Volume (CFM)		22,500	23,600	23,900	25,000	26,100	26,400
Unit Data							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Control/Location		EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit	EEV/Indoor Unit
Max. No. Indoor Units/System[3]		52	55	58	61	64	64
Sound Pressure dB(A)[4]		62	62	62	63	63	63
Net Unit Weight (lbs.)		418 + 617 + 617	418 + 617 + 617	418 + 617 + 617	617 + 617 + 617	617 + 617 + 617	617 + 617 + 617
Shipping Weight (lbs.)		441 + 650 + 650	441 + 650 + 650	441 + 650 + 650	650 + 650 + 650	650 + 650 + 650	650 + 650 + 650
Communication Cables[5,6]		2 x 18	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Heat Exchanger							
Material and Fin Coating		Copper Tube/Aluminum Fin and GoldFin™/Hydrophilic					
Rows/Fins per inch		2/14 + (2 x 3/14)	2/14 + (2 x 3/14)	2/14 + (2 x 3/14)	3 x 3/14	3 x 3/14	3 x 3/14
Piping[7]							
Liquid Line Conn. (in., OD)		3/8+3/8+1/2 Braze	3/8+1/2+1/2 Braze	3/8+1/2+1/2 Braze	3/8+1/2+1/2 Braze	1/2+1/2+1/2 Braze	1/2+1/2+1/2 Braze
Low Pressure Vapor Line Conn. (in., OD)		3/4+7/8+1-1/8 Braze	3/4+1-1/8+1-1/8 Braze	3/4+1-1/8+1-1/8 Braze	7/8+1-1/8+1-1/8 Braze	1-1/8+1-1/8+1-1/8 Braze	1-1/8+1-1/8+1-1/8 Braze
High Pressure Vapor Line Conn. (in., OD)		5/8 + 3/4 + 7/8 Braze	5/8 + 3/4 + 7/8 Braze	5/8 + 3/4 + 7/8 Braze	3/4 + 7/8 + 7/8 Braze	3/4 + 7/8 + 7/8 Braze	7/8 + 7/8 + 7/8 Braze
Factory Charge lbs. of R410A		12.1 + 20.7 + 20.7	12.1 + 20.7 + 20.7	12.1 + 20.7 + 20.7	20.7 + 20.7 + 20.7	20.7 + 20.7 + 20.7	20.7 + 20.7 + 20.7

[1]Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%. (Nominal capacity is outside the scope of AHRI Standard 1230.)
Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).
Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

[2]Rated capacity is certified under AHRI Standard 1230. See www.ahrinet.org for information.

[3]The System Combination Ratio must be between 50–130%.

[4]Sound pressure levels are tested in an anechoic chamber under ISO Standard 1996.

[5]All communication cable to be minimum 18 AWG, 2-conductor, stranded, shielded, and must comply with applicable local and national codes.

[6]Power wiring cable is field provided and must comply with the applicable local and national codes. See page 28 for detailed electrical data.

[7]Refer to the Refrigerant Piping section of this manual for correct line sizing. Contractor must use LG manufactured Y-Branch and Header Kits only. Designer must verify refrigerant piping design configuration using LG's computerized refrigerant piping (LATS Multi V) software to validate the pipe design.

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GENERAL DATA

Heat Recovery Unit Specifications and Electrical Data



Figure 4: Two-Port Heat Recovery Unit.



Figure 5: Three-Port Heat Recovery Unit.



Figure 6: Four-Port Heat Recovery Unit.

⚠ *Note:*

Heat recovery units can only be used with LG heat recovery systems.

Table 13: Heat Recovery Unit Specifications.

Model			PRHR021A	PRHR031A	PRHR041A
Number of Ports			2	3	4
Max. Connectable No. of Indoor Units			16	24	32
Max. Connectable No. of Indoor Units on each port			8	8	8
Max. Port Capacity (each port)		Btu/h	54,000	54,000	54,000
Max. Unit Capacity (sum of ports)		Btu/h	192,000	192,000	192,000
Net Weight		lbs.	40	45	49
Dimensions (W x H x D)		inches	31-1/2 x 8-5/8 x 24-5/16		
Casing			Galvanized steel plate		
Connecting Pipes	To Indoor Units	Liquid Pipe (inches)	3/8		
		Vapor Pipe (inches)	5/8		
	To Outdoor Units	Liquid (inches)	3/8	1/2	5/8
		Low-pressure Vapor (inches)	7/8	1-1/8	1-1/8
		High-pressure Vapor (inches)	3/4	7/8	7/8
Insulation Material			Polyethylene		
Current	Minimum Circuit Amps (MCA)		0.1	0.15	0.2
	Maximum Fuse Amps (MFA)		15		
Power Supply			1Ø, 208-230V, 60Hz		

Table 14: Heat Recovery Unit Electrical Data.

Unit Model No.	V / Hz / Ph	Input (kW)	
		Cooling	Heating
PRHR021A	208-230 / 60 / 1	0.014	0.014
PRHR031A	208-230 / 60 / 1	0.021	0.021
PRHR041A	208-230 / 60 / 1	0.029	0.029

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Table 15: 208-230V, 60Hz, 3-Phase Heat Pump Units.

Nom. Tons	Unit Model Nos.	Compressor (Comp.)								Condenser Fan Motor(s)				MSC	MCA			MOCP		
		Comp. Qty.	Motor Amps							Fan Qty.	Amps									
			Motor RLA (Ea.)								FLA (Ea.)									
			Frame 1		Frame 2		Frame 3													
			Comp. A	Comp. B	Comp. A	Comp. B	Comp. A	Comp. B			Frame 1	Frame 2	Frame 3		Frame 1	Frame 2	Frame 3	Frame 1	Frame 2	Frame 3
6.0	ARUN072BT3	1	15.4	-	-	-	-	-		1	4.0	-	-	-	23.3	-	-	35	-	-
8.0	ARUN096BT3	2	11.0	20.5	-	-	-	-		2	6.0	-	-	150.2	42.6	-	-	60	-	-
10.0	ARUN121BT3	2	12.5	20.5	-	-	-	-		2	6.0	-	-	150.2	44.1	-	-	60	-	-
12.0	ARUN144BT3	2	18.3	20.5	-	-	-	-		2	6.0	-	-	150.2	49.9	-	-	70	-	-
14.0	ARUN168BT3	3	11.0	20.5	15.4	-	-	-		3	6.0	4.0	-	160.4	42.6	23.3	--	60	35	-
16.0	ARUN192BT3	3	12.5	20.5	15.4	-	-	-		3	6.0	4.0	-	160.4	44.1	23.3	-	60	35	
18.0	ARUN216BT3	3	18.3	20.5	15.4	-	-	-		3	6.0	4.0	-	160.4	49.9	23.3	-	70	35	
20.0	ARUN240BT3	4	18.3	20.5	11.0	20.5	-	-		4	6.0	6.0	-	180.9	49.9	42.6		70	60	
22.0	ARUN264BT3	4	18.3	20.5	12.5	20.5	-	-		4	6.0	6.0	-	180.9	49.9	44.1		70	60	
24.0	ARUN288BT3	4	18.3	20.5	18.3	20.5	-	-		4	6.0	6.0	-	180.9	49.9	49.9		70	70	
26.0	ARUN312BT3	5	18.3	20.5	11.0	20.5	15.4	-		5	6.0	6.0	4.0	191.1	49.9	42.6	23.3	70	60	35
28.0	ARUN336BT3	5	18.3	20.5	12.5	20.5	15.4	-		5	6.0	6.0	4.0	191.1	49.9	44.1	23.3	70	60	35
30.0	ARUN360BT3	5	18.3	20.5	18.3	20.5	15.4	-		5	6.0	6.0	4.0	191.1	49.9	49.9	23.3	70	70	35
32.0	ARUN384BT3	6	18.3	20.5	18.3	20.5	11.0	20.5		6	6.0	6.0	6.0	211.6	49.9	49.9	42.6	70	70	60
34.0	ARUN408BT3	6	18.3	20.5	18.3	20.5	12.5	20.5		6	6.0	6.0	6.0	211.6	49.9	49.9	44.1	70	70	60
36.0	ARUN432BT3	6	18.3	20.5	18.3	20.5	18.3	20.5		6	6.0	6.0	6.0	211.6	49.9	49.9	49.9	70	70	70

For component model nos. see the specification tables on p. 14-16.
Voltage tolerance is ±10%.
Maximum allowable voltage unbalance is 2%.

MSC = Maximum Starting Current.
MCA = Minimum Circuit Ampacity.

Maximum Overcurrent Protectin (MOCP) is calculated as follows: (Largest motor FLA x 2.25) + (Sum of other motor FLA) rounded down to the nearest standard fuse size.

Table 16: 460V, 60Hz, 3-Phase Heat Pump Units.

Nom. Tons	Unit Model Nos.	Compressor (Comp.)								Condenser Fan Motor(s)				MSC	MCA			MOCP		
		Comp. Qty.	Motor Amps							Fan Qty.	Amps									
			Motor RLA (Ea.)								FLA (Ea.)									
			Frame 1		Frame 2		Frame 3													
			Comp. A	Comp. B	Comp. A	Comp. B	Comp. A	Comp. B			Frame 1	Frame 2	Frame 3		Frame 1	Frame 2	Frame 3	Frame 1	Frame 2	Frame 3
6.0	ARUN072DT3	1	10.2	-	-	-	-	-		1	2.1	-	-	-	14.9	-	-	25	-	-
8.0	ARUN096DT3	2	9.6	9.5	-	-	-	-		2	2.6	-	-	58.5	24.1	-	-	30	-	-
10.0	ARUN121DT3	2	10.5	9.5	-	-	-	-		2	2.6	-	-	58.5	25.2	-	-	35	-	-
12.0	ARUN144DT3	2	12.4	9.5	-	-	-	-		2	2.6	-	-	58.5	27.6	-	-	40	-	-
14.0	ARUN168DT3	3	9.6	9.5	10.2	-	-	-		3	2.6	2.1	-	63.0	24.1	14.9	--	30	25	-
16.0	ARUN192DT3	3	10.5	9.5	10.2	-	-	-		3	2.6	2.1	-	63.0	25.2	14.9	-	35	25	
18.0	ARUN216DT3	3	12.4	9.5	10.2	-	-	-		3	2.6	2.1	-	63.0	27.6	14.9	-	40	25	
20.0	ARUN240DT3	4	12.4	9.5	9.6	9.5	-	-		4	2.6	2.6	-	72.5	27.6	24.1		40	30	
22.0	ARUN264DT3	4	12.4	9.5	10.5	9.5	-	-		4	2.6	2.6	-	72.5	27.6	25.2		40	35	
24.0	ARUN288DT3	4	12.4	9.5	12.4	9.5	-	-		4	2.6	2.6	-	72.5	27.6	27.6		40	40	-
26.0	ARUN312DT3	5	12.4	9.5	9.6	9.5	10.2	-		5	2.6	2.6	2.1	77.0	27.6	24.1	14.9	40	30	25
28.0	ARUN336DT3	5	12.4	9.5	10.5	9.5	10.2	-		5	2.6	2.6	2.1	77.0	27.6	25.2	14.9	40	35	25
30.0	ARUN360DT3	5	12.4	9.5	12.4	9.5	10.2	-		5	2.6	2.6	2.1	77.0	27.6	27.6	14.9	40	40	25
32.0	ARUN384DT3	6	12.4	9.5	12.4	9.5	9.6	9.5		6	2.6	2.6	2.6	86.5	27.6	27.6	24.1	40	40	30
34.0	ARUN408DT3	6	12.4	9.5	12.4	9.5	10.5	9.5		6	2.6	2.6	2.6	86.5	27.6	27.6	25.2	40	40	35
36.0	ARUN432DT3	6	12.4	9.5	12.4	9.5	12.4	9.5		6	2.6	2.6	2.6	86.5	27.6	27.6	27.6	40	40	40

For component model nos. see the specification tables on p. 17-19.
Voltage tolerance is ±10%.
Maximum allowable voltage unbalance is 2%.

MSC = Maximum Starting Current.
MCA = Minimum Circuit Ampacity.

Maximum Overcurrent Protectin (MOCP) is calculated as follows: (Largest motor FLA x 2.25) + (Sum of other motor FLA) rounded down to the nearest standard fuse size.

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ELECTRICAL DATA

ARUB Series Heat Recovery Outdoor Units

Table 17: 208-230V, 60Hz, 3-Phase Heat Recovery Units.

Nom. Tons	Unit Model Nos.	Compressor (Comp.)							Condenser Fan Motor(s)				MSC	MCA			MOCP		
		Comp. Qty.	Motor Amps						Fan Qty.	Amps									
			Motor RLA (Ea.)							FLA (Ea.)									
			Frame 1		Frame 2		Frame 3												
			Comp. A	Comp. B	Comp. A	Comp. B	Comp. A	Comp. B		Frame 1	Frame 2	Frame 3		Frame 1	Frame 2	Frame 3	Frame 1	Frame 2	Frame 3
6.0	ARUB072BT3	1	15.4	-	-	-	-	-	1	4.0	-	-	-	23.3	-	-	35	-	-
8.0	ARUB096BT3	2	11.0	20.5	-	-	-	-	2	6.0	-	-	150.2	42.6	-	-	60	-	-
10.0	ARUB121BT3	2	12.5	20.5	-	-	-	-	2	6.0	-	-	150.2	44.1	-	-	60	-	-
12.0	ARUB144BT3	2	18.3	20.5	-	-	-	-	2	6.0	-	-	150.2	49.9	-	-	70	-	-
14.0	ARUB168BT3	3	11.0	20.5	15.4	-	-	-	3	6.0	4.0	-	160.4	42.6	23.3	--	60	35	-
16.0	ARUB192BT3	3	12.5	20.5	15.4	-	-	-	3	6.0	4.0	-	160.4	44.1	23.3	-	60	35	
18.0	ARUB216BT3	3	18.3	20.5	15.4	-	-	-	3	6.0	4.0	-	160.4	49.9	23.3	-	70	35	
20.0	ARUB240BT3	4	18.3	20.5	11.0	20.5	-	-	4	6.0	6.0	-	180.9	49.9	42.6		70	60	
22.0	ARUB264BT3	4	18.3	20.5	12.5	20.5	-	-	4	6.0	6.0	-	180.9	49.9	44.1		70	60	
24.0	ARUB288BT3	4	18.3	20.5	18.3	20.5	-	-	4	6.0	6.0	-	180.9	49.9	49.9		70	70	
26.0	ARUB312BT3	5	18.3	20.5	11.0	20.5	15.4	-	5	6.0	6.0	4.0	191.1	49.9	42.6	23.3	70	60	35
28.0	ARUB336BT3	5	18.3	20.5	12.5	20.5	15.4	-	5	6.0	6.0	4.0	191.1	49.9	44.1	23.3	70	60	35
30.0	ARUB360BT3	5	18.3	20.5	18.3	20.5	15.4	-	5	6.0	6.0	4.0	191.1	49.9	49.9	23.3	70	70	35
32.0	ARUB384BT3	6	18.3	20.5	18.3	20.5	11.0	20.5	6	6.0	6.0	6.0	211.6	49.9	49.9	42.6	70	70	60
34.0	ARUB408BT3	6	18.3	20.5	18.3	20.5	12.5	20.5	6	6.0	6.0	6.0	211.6	49.9	49.9	44.1	70	70	60
36.0	ARUB432BT3	6	18.3	20.5	18.3	20.5	18.3	20.5	6	6.0	6.0	6.0	211.6	49.9	49.9	49.9	70	70	70

For component model nos. see the specification tables on p. 20-22.
Voltage tolerance is ±10%.
Maximum allowable voltage unbalance is 2%.

MSC = Maximum Starting Current.
MCA = Minimum Circuit Ampacity.

Maximum Overcurrent Protectin (MOCP) is calculated as follows: (Largest motor FLA x 2.25) + (Sum of other motor FLA) rounded down to the nearest standard fuse size.

Table 18: 460V, 60Hz, 3-Phase Heat Recovery Units.

Nom. Tons	Unit Model Nos.	Compressor (Comp.)							Condenser Fan Motor(s)				MSC	MCA			MOCP		
		Comp. Qty.	Motor Amps						Fan Qty.	Amps									
			Motor RLA (Ea.)							FLA (Ea.)									
			Frame 1		Frame 2		Frame 3												
			Comp. A	Comp. B	Comp. A	Comp. B	Comp. A	Comp. B		Frame 1	Frame 2	Frame 3		Frame 1	Frame 2	Frame 3	Frame 1	Frame 2	Frame 3
6.0	ARUB072DT3	1	10.2	-	-	-	-	-	1	2.1	-	-	-	14.9	-	-	25	-	-
8.0	ARUB096DT3	2	9.6	9.5	-	-	-	-	2	2.6	-	-	58.5	24.1	-	-	30	-	-
10.0	ARUB121DT3	2	10.5	9.5	-	-	-	-	2	2.6	-	-	58.5	25.2	-	-	35	-	-
12.0	ARUB144DT3	2	12.4	9.5	-	-	-	-	2	2.6	-	-	58.5	27.6	-	-	40	-	-
14.0	ARUB168DT3	3	9.6	9.5	10.2	-	-	-	3	2.6	2.1	-	63.0	24.1	14.9	--	30	25	-
16.0	ARUB192DT3	3	10.5	9.5	10.2	-	-	-	3	2.6	2.1	-	63.0	25.2	14.9	-	35	25	
18.0	ARUB216DT3	3	12.4	9.5	10.2	-	-	-	3	2.6	2.1	-	63.0	27.6	14.9	-	40	25	
20.0	ARUB240DT3	4	12.4	9.5	9.6	9.5	-	-	4	2.6	2.6	-	72.5	27.6	24.1		40	30	
22.0	ARUB264DT3	4	12.4	9.5	10.5	9.5	-	-	4	2.6	2.6	-	72.5	27.6	25.2		40	35	
24.0	ARUB288DT3	4	12.4	9.5	12.4	9.5	-	-	4	2.6	2.6	-	72.5	27.6	27.6		40	40	-
26.0	ARUB312DT3	5	12.4	9.5	9.6	9.5	10.2	-	5	2.6	2.6	2.1	77.0	27.6	24.1	14.9	40	30	25
28.0	ARUB336DT3	5	12.4	9.5	10.5	9.5	10.2	-	5	2.6	2.6	2.1	77.0	27.6	25.2	14.9	40	35	25
30.0	ARUB360DT3	5	12.4	9.5	12.4	9.5	10.2	-	5	2.6	2.6	2.1	77.0	27.6	27.6	14.9	40	40	25
32.0	ARUB384DT3	6	12.4	9.5	12.4	9.5	9.6	9.5	6	2.6	2.6	2.6	86.5	27.6	27.6	24.1	40	40	30
34.0	ARUB408DT3	6	12.4	9.5	12.4	9.5	10.5	9.5	6	2.6	2.6	2.6	86.5	27.6	27.6	25.2	40	40	35
36.0	ARUB432DT3	6	12.4	9.5	12.4	9.5	12.4	9.5	6	2.6	2.6	2.6	86.5	27.6	27.6	27.6	40	40	40

For component model nos. see the specification tables on p. 23-25.
Voltage tolerance is ±10%.
Maximum allowable voltage unbalance is 2%.

MSC = Maximum Starting Current.
MCA = Minimum Circuit Ampacity.

Maximum Overcurrent Protectin (MOCP) is calculated as follows: (Largest motor FLA x 2.25) + (Sum of other motor FLA) rounded down to the nearest standard fuse size.

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GENERAL DATA

Indoor Unit Specifications

Table 19: Summary Data—Wall-Mounted / Ceiling Cassette Indoor Units.

Unit / Type[1]	ARNU*****[2]	Nominal Capacity Btu/h	
		Cooling[3]	Heating[3]
Wall Mounted–ART COOL™ Mirror 	073 SER2	7,500	8,500
	093 SER2	9,600	10,900
	123 SER2	12,300	13,600
	153 SER2	15,400	17,100
	183 S8R2	19,100	21,500
	243 S8R2	24,200	27,300
Wall Mounted–Standard Finish 	073 SEL2	7,500	8,500
	093 SEL2	9,600	10,900
	123 SEL2	12,300	13,600
	153 SEL2	15,400	17,100
	183 S5L2	19,100	21,500
	243 S5L2	24,200	27,300
Ceiling Cassette–1 Way 	073 TJC2	7,500	8,500
	093 TJC2	9,600	10,900
	123 TJC2	12,300	13,600
Ceiling Cassette–2 Way 	183 TLC2	19,100	21,500
	243 TLC2	24,200	27,300
Ceiling Cassette–4 Way (2' x 2') 	053 TRC2	5,500	6,100
	073 TRC2	7,500	8,500
	093 TRC2	9,600	10,900
	123 TRC2	12,300	13,600
	153 TQC2	15,400	17,100
	183 TQC2	19,100	21,500
Ceiling Cassette–4 Way (3' x 3') 	093 TPAA	9,600	10,900
	123 TPAA	12,300	13,600
	153 TPAA	15,400	17,100
	183 TNAA	19,100	21,500
	243 TNAA	24,200	27,300
	243 TPC2	24,200	27,300
	283 TPC2	28,000	31,500
	363 TNC2	36,200	40,600
	423 TMC2	42,000	43,800
	483 TMC2	48,100	51,200

[1]All indoor units require 208–230V/60Hz/1Ph and an AWG18-2 communication cable. Reference LG's Multi V Indoor Unit Engineering Manual for complete detailed engineering data and selection procedures.

[2]Model number shows nominal capacity and frame size designator.

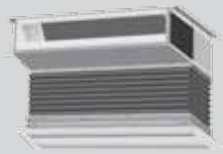
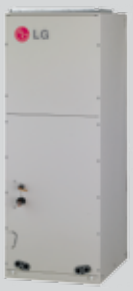
[3]Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB). Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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GENERAL DATA

Indoor Unit Specifications

Table 20: Summary Data—Recessed Mounted Indoor Units.

Unit / Type[1]	ARNU***[2]	Nominal Capacity Btu/h	
		Cooling[3]	Heating[3]
Ducted High Static 	073 BHA2	7,500	8,500
	093 BHA2	9,600	10,900
	123 BHA2	12,300	13,600
	153 BHA2	15,400	17,100
	183 BHA2	19,100	21,500
	243 BHA2	24,200	27,300
	153 BGA2	15,400	17,100
	183 BGA2	19,100	21,500
	243 BGA2	24,200	27,300
	283 BGA2	28,000	31,500
	363 BGA2	36,200	40,600
	423 BGA2	42,000	43,800
	483 BRA2	48,100	51,200
	543 BRA2	54,000	61,400
	763 B8A2	76,400	86,000
	963 B8A2	95,900	107,500
Ducted Low Static–Convertible 	073 B1G2	7,500	8,500
	093 B1G2	9,600	10,900
	123 B1G2	12,300	13,600
	153 B1G2	15,400	17,100
	183 B2G2	19,100	21,500
	243 B2G2	24,200	27,300
Ducted Low Static–Bottom Return 	073 B3G2	7,500	8,500
	093 B3G2	9,600	10,900
	123 B3G2	12,300	13,600
	153 B3G2	15,400	17,100
	183 B4G2	19,100	21,500
	243 B4G2	24,200	27,300
Vertical / Horizontal Air Handling Unit 	123 NJ2	12,000	13,500
	183 NJA2	18,000	20,000
	243 NJA2	24,000	27,000
	303 NJA2	30,000	34,000
	363 NJA2	36,000	40,000
	423 NKA2	42,000	46,000
	483 NKA2	48,000	54,000
	543 NKA2	54,000	60,000

[1]All indoor units require 208–230V/60Hz/1Ph and an AWG18-2 communication cable. Reference LG's Multi V Indoor Unit Engineering Manual for complete detailed engineering data and selection procedures.

[2]Model number shows nominal capacity and frame size designator.

[3] Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB). Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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Table 21: Summary Data—Surface Mounted / Floor Standing Indoor Units.

Unit / Type[1]	ARNU****[2]	Nominal Capacity Btu/h	
		Cooling[3]	Heating[3]
Ceiling Suspended 	183VJA2	19,100	21,500
	243VJA2	24,200	27,300
Convertible Surface Mounted 	093VEA2	9,600	10,900
	123VEA2	12,300	13,600
Floor Standing–with Case 	073 CEA2	7,500	8,500
	093 CEA2	9,600	10,900
	123 CEA2	12,300	13,600
	153 CEA2	15,400	17,100
	183 CFA2	19,100	21,500
	243 CFA2	24,200	27,300
Floor Standing–without case 	073 CEU2	7,500	8,500
	093 CEU2	9,600	10,900
	123 CEU2	12,300	13,600
	153 CEU2	15,400	17,100
	183 CFU2	19,100	21,500
	243 CFU2	24,200	27,300

[1]All indoor units require 208–230V/60Hz/1Ph and an AWG18-2 communication cable. Reference LG's Multi V Indoor Unit Engineering Manual for complete detailed engineering data and selection procedures.

[2]Model # shows nominal capacity and frame size designator.

[3]Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB) and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB). Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB) and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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GENERAL DATA

Indoor Unit Controls and Options

Table 22: Indoor Units—Controls and Options.

	Indoor Unit Type	Wall Mounted—Standard Finish	Wall Mounted—ART COOL™ Mirror	1-Way Cassette	2-Way Cassette	4-Way Cassette		Ducted High Static	Ducted Low Static-Convertible	Ducted Low Static—Bottom Return	Vert.-Horiz. AHU (NJ)	Vert.-Horiz. AHU (NK)	Ceiling Suspended	Convertible Surface Mount	Floor Mount—Cased	Floor Mount—Uncased
	Nominal Chassis Size (MBH)	7–24	7–24	7–12	18–24	5–18	24–48	7–96	7–24	7–24	1–3	3.5–4.5	18–24	9–12	7–24	7–24
Airflow	Air supply outlets	1	1	1	2	4	4	1	1	1	1	1	1	1	1	1
	Airflow direction (left/right)	manual / auto	auto										manual	manual		
	Auto airflow direction (up/down)	√	√	√	√	√	√						√	√		
	Fan speed (Heating mode) (qty.)	(3)	(3)	(4)	(4)	(4)	(4)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
	Fan speed (Cooling mode) (qty.)	(4)	(4)	(5)	(5)	(5)	(5)	(3)	(3)	(3)	(3)	(3)	(4)	(4)	(3)	(3)
	Fan speed (Fan mode) (qty.)	(3)	(3)	(4)	(4)	(4)	(4)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
	Chaos swing (random louver swing)	√	√													
	Chaos wind (random fan speed)	√	√	√	√	√	√						√	√		
	Jet-cool (power cooling)	√	√	√	√	√	√						√	√		
Operation	E.S.P. control			√	√	√	√	√	√	√	√	√			√	√
	High ceiling			√	√	√	√						√	√		
	Auto-restart after power restore	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Hot Start	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Diagnostics	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Soft Dry (dehumidification)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Auto changeover[1]	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Auto operation[7]	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Auto clean (coil dry)	√	√													
	Child lock	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Forced operation	√	√	√	√	√	√						√	√		
	Group control – Requires the use of one Group control Cable Kit (PZCWRCG3) for every additional indoor unit	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Sleep mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Timer (on/off)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Weekly schedule	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Two thermistor control	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Test operation mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Filter	Plasma[3]	√	√	√	√	√	√									
	Washable anti-fungal[2]	√	√	√	√	√	√	√	√	√			√	√	√	√
Controllers	7-day programmable controller	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
	Simple controller w/mode	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
	Simple controller w/o mode	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
	Wireless hand held controller	o	o	o	o	o	o	o[4]	o[4]	o[4]			o	o	o[4]	o[4]
Others	Condensate lift			√	√	√	√	√	√	√						
	Ventilation air			√		√[5]	√[5]	√	√	√						
	Casing	√	√	√	√	√	√						√	√	√	
	Standard grille			√	√	√	√									
	Auto elevation grille						√[6]									
	Color Panels (qty.)		(3)													
	Suction grille									o						
	Suction canvas									o						
	Aux. Heat Kit										√	√				

[1]For Heat Recovery systems only.

[2]Primary washable filters.

[3]Secondary plasma filters. Not available with ARNU093-153TPAA, ARNU183-243TNAA.

[4]Requires 7-day programmable zone controller.

[5]Requires ventilation kit PTVK430 (For TR, TQ frames) or PTVK410+PTVK420 (For TP, TN, TM frames)(Temperature, humidity, and volume limitations apply).

[6]Requires standard grille.

[7]Heat Pump systems only.

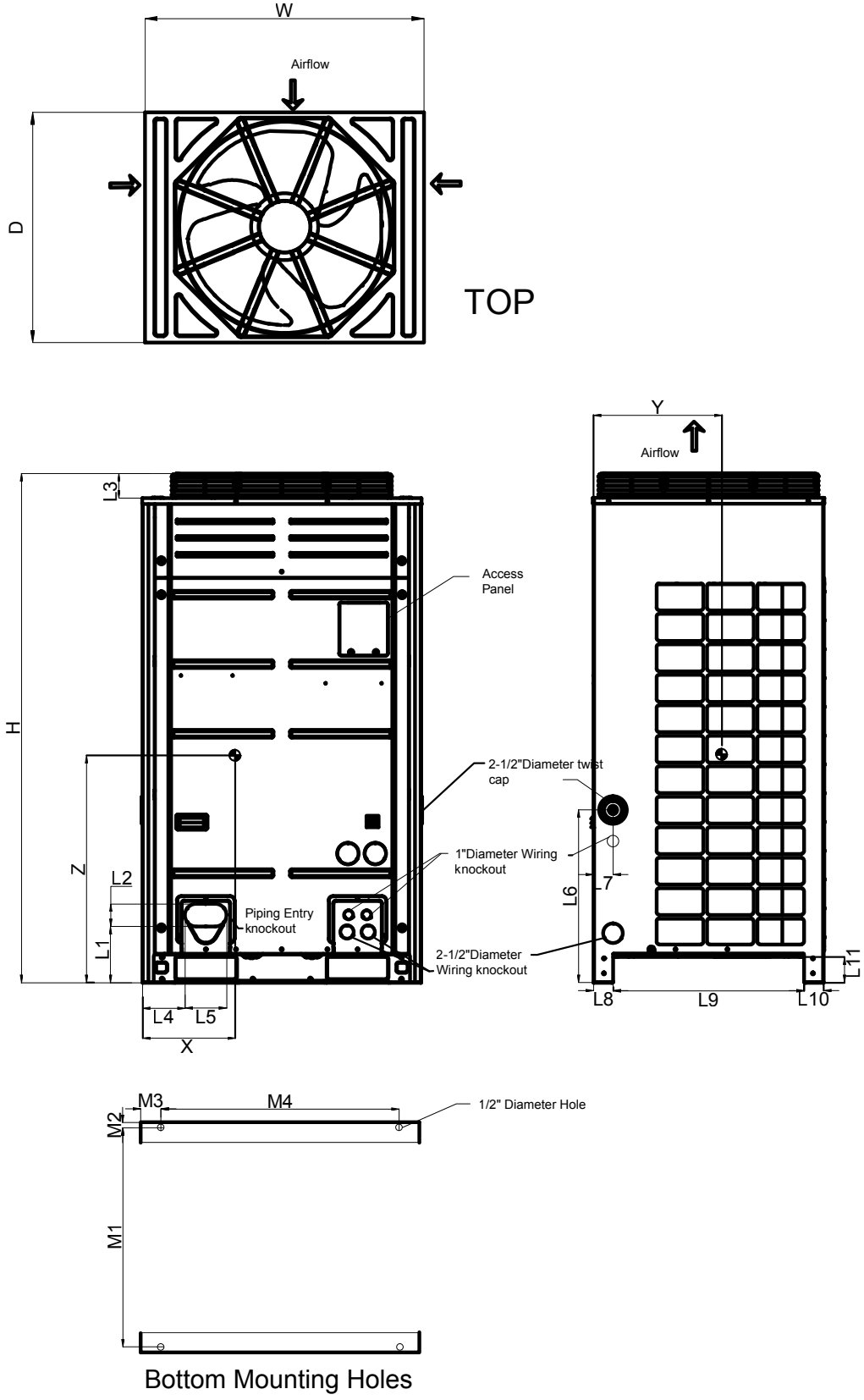
√ = Standard feature

o = Unit option

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OUTDOOR UNIT DIMENSIONS

ARUN072BT3 / ARUN072DT3, ARUB072BT3 / ARUB072DT3

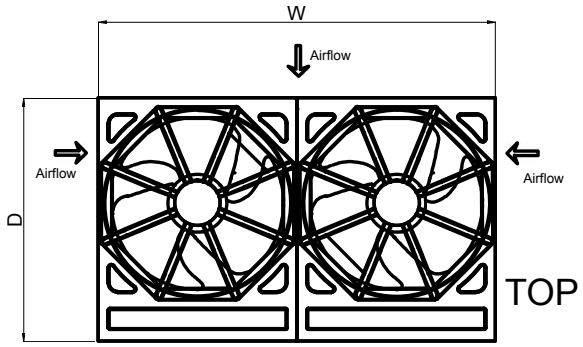


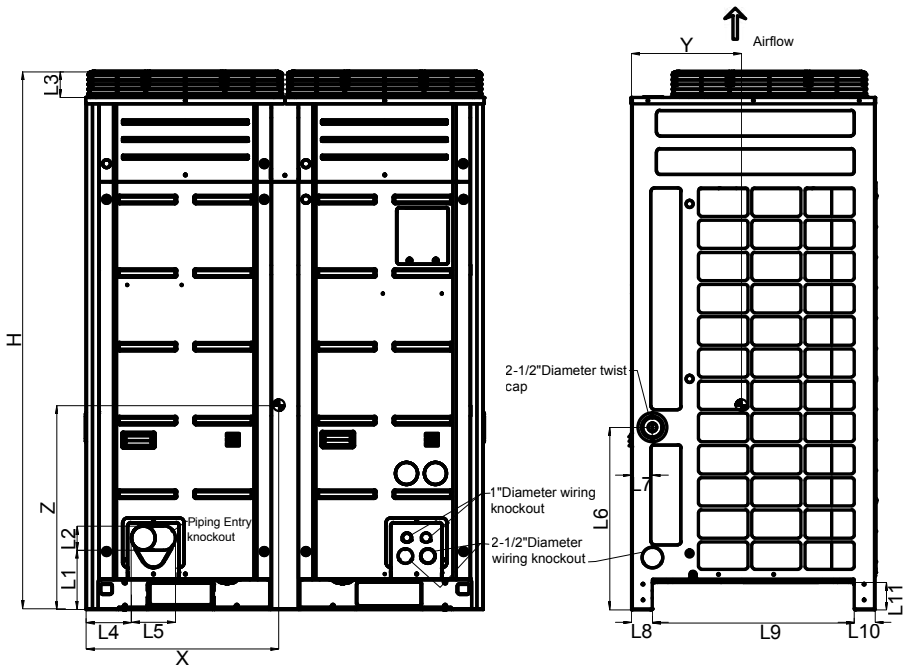
X	11-1/2"
Y	17-13/16"
Z	29-5/16"
W	36-1/4"
D	29-15/16"
H	66-1/8"
L1	7-1/4"
L2	2-15/16"
L3	3-1/8"
L4	5-1/2"
L5	5-3/8"
L6	22-7/16"
L7	2-9/16"
L8	2-9/16"
L9	24-3/16"
L10	2-9/16"
L11	3-5/16"
M1	29-1/16"
M2	7/16"
M3	2-5/8"
M4	31-3/16"

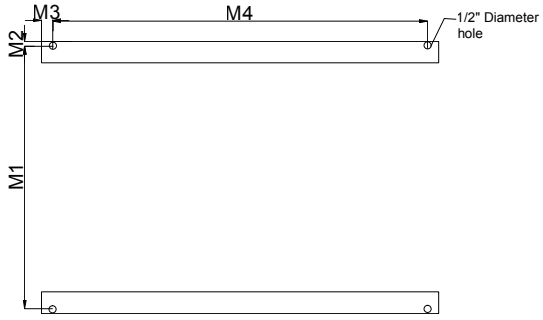
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OUTDOOR UNIT DIMENSIONS

ARUN096BT3 / 096DT3, ARUN121BT3 / 121DT3, ARUN144BT3 / 144DT3;
ARUB096BT3 / 096DT3, ARUB121BT3 / 121DT3, ARUB144BT3 / 144DT3







Bottom Mounting Holes

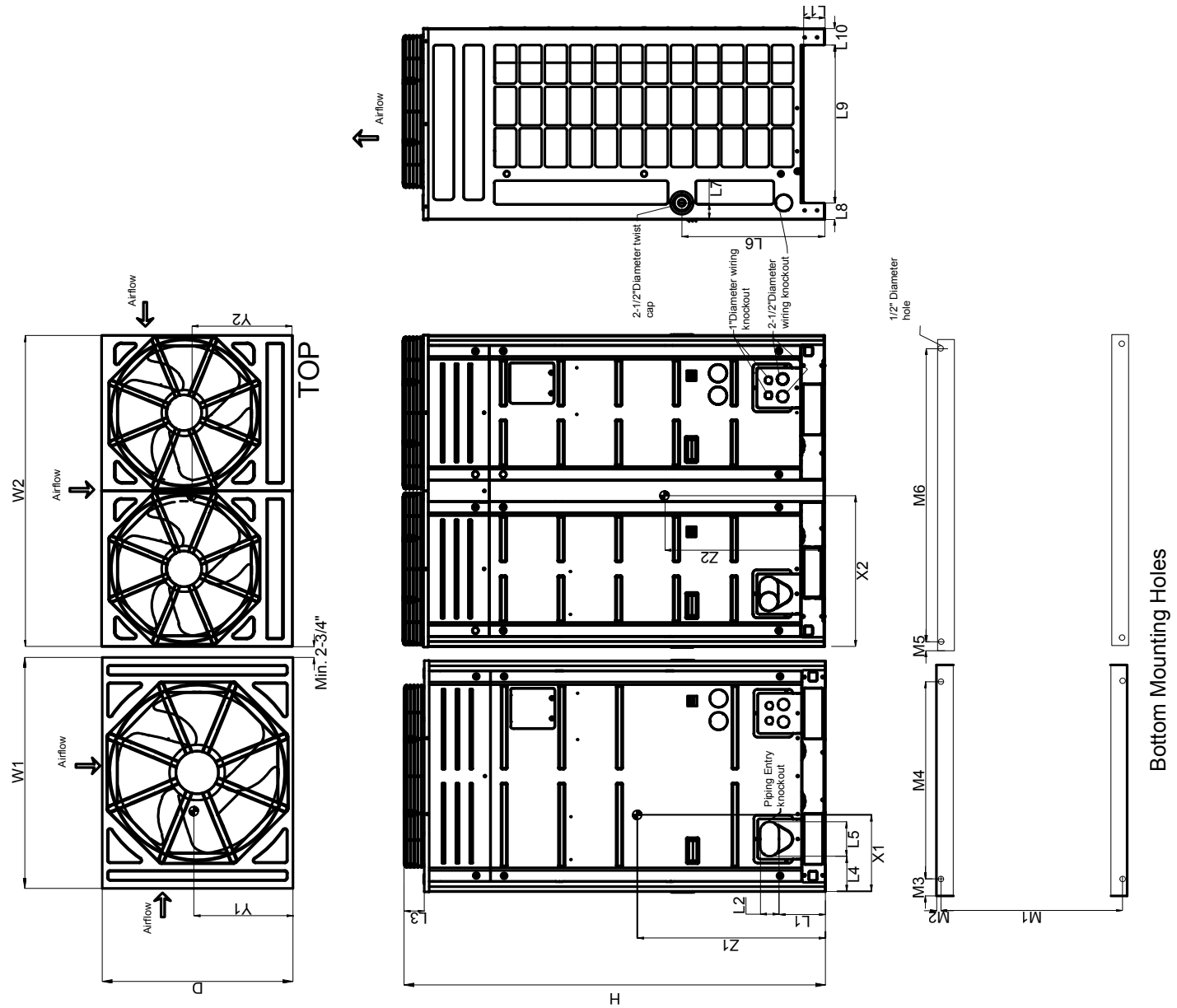
X	23-1/8"
Y	14-15/16"
Z	25-13/16"
W	48-13/16"
D	29-15/16"
H	66-1/8"
L1	7-1/4"
L2	2-15/16"
L3	3-1/8"
L4	5-1/2"
L5	5-3/8"
L6	22-7/16
L7	2-9/16
L8	2-9/16
L9	24-3/16"
L10	2-9/16"
L11	3-5/16"
M1	29-1/16"
M2	7/16"
M3	2-5/8"
M4	43-3/8"

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OUTDOOR UNIT DIMENSIONS

ARUN168BT3 / 168DT3, ARUN192BT3 / 192DT3, ARUN216BT3 / 216DT3; ARUB168BT3 / 168DT3, ARUB192BT3 / 192DT3, ARUB216BT3 / 216DT3

X1	11-1/2"
X2	23-1/8"
Y1	17-13/16"
Y2	14-5/8"
Z1	29-5/16"
Z2	25-13/16"
W1	36-1/4"
W2	48-13/16"
D	29-15/16"
H	66-1/8"
L1	7-1/4"
L2	2-15/16"
L3	3-1/8"
L4	5-1/2"
L5	5-3/8"
L6	22-7/16
L7	2-9/16
L8	2-9/16
L9	24-3/16"
L10	2-9/16"
L11	3-5/16"
M1	29-1/16"
M2	7/16"
M3	2-5/8"
M4	31-3/16"
M5	2-5/8"
M6	43-3/8"

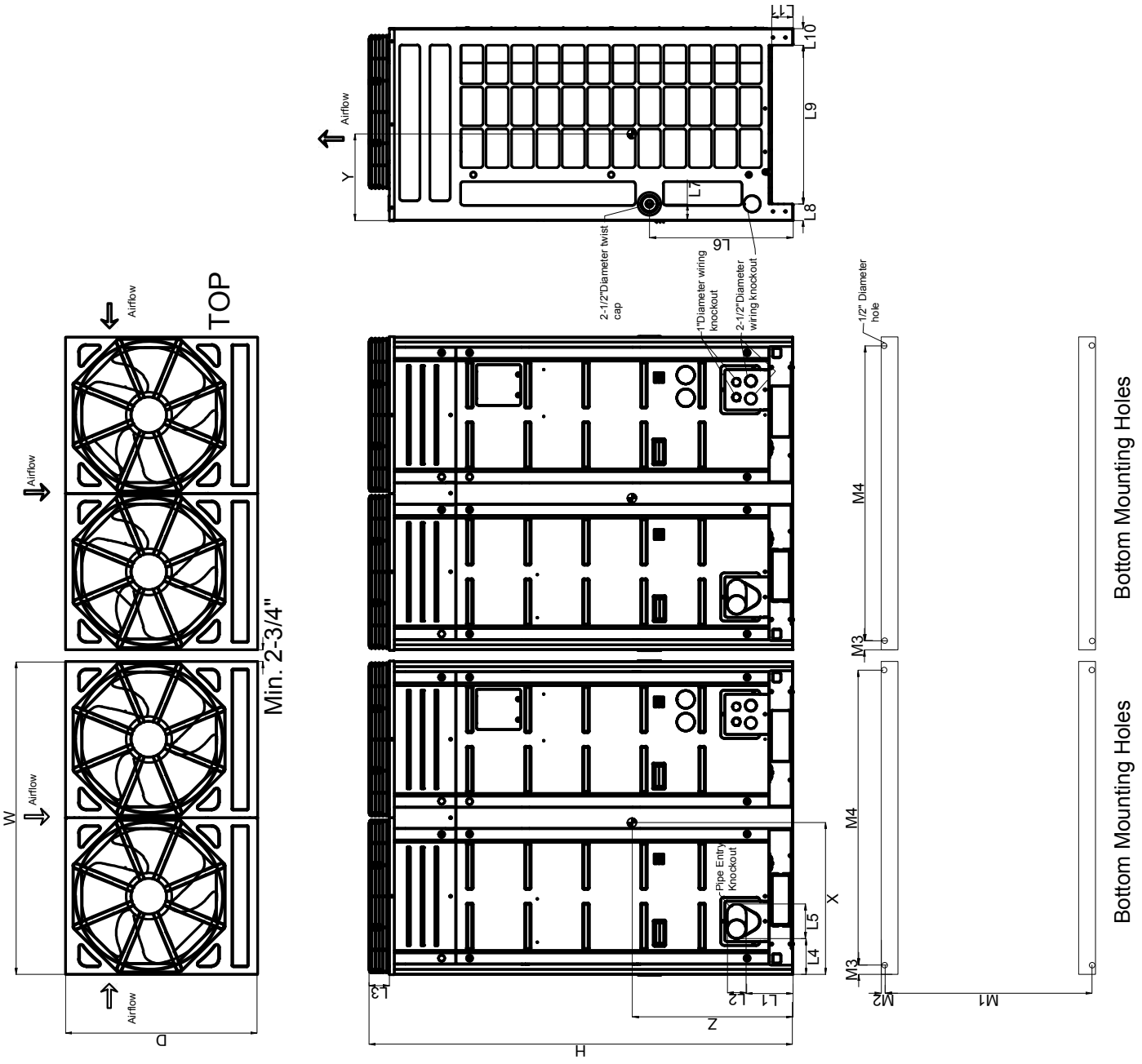


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OUTDOOR UNIT DIMENSIONS

ARUN240BT3 / 240DT3, ARUN264BT3 / 264DT3, ARUN288BT3 / 288DT3;
ARUB240BT3 / 240DT3, ARUB264BT3 / 264DT3, ARUB288BT3 / 288DT3

X	23-1/8"
Y	14-15/16"
Z	25-13/16"
W	48-13/16"
D	29-15/16"
H	66-1/8"
L1	7-1/4"
L2	2-15/16"
L3	3-1/8"
L4	5-1/2"
L5	5-3/8"
L6	22-7/16
L7	2-9/16
L8	2-9/16
L9	24-3/16"
L10	2-9/16"
L11	3-5/16"
M1	29-1/16"
M2	7/16"
M3	2-5/8"
M4	43-3/8"

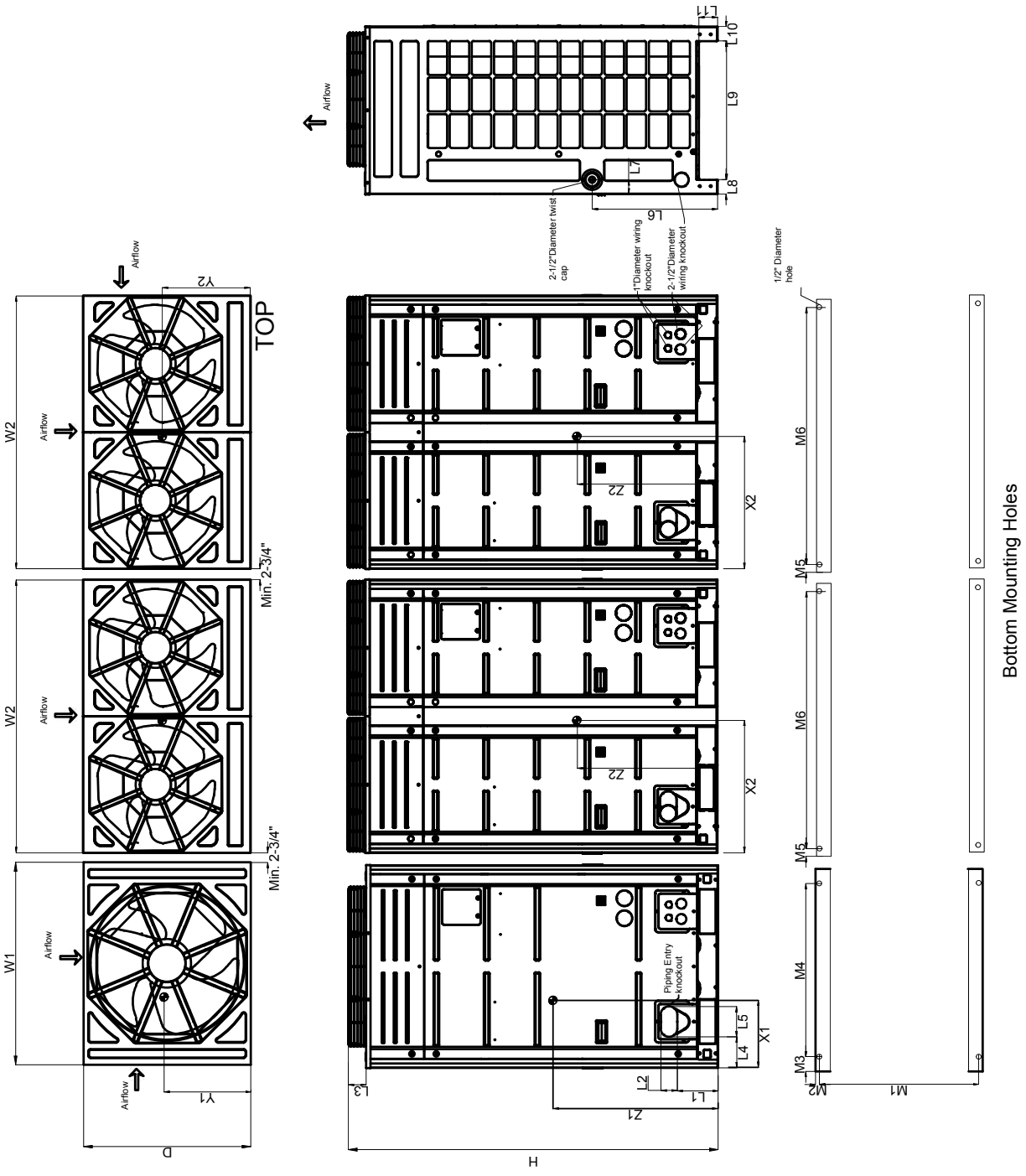


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OUTDOOR UNIT DIMENSIONS

ARUN312BT3 / 312DT3, ARUN336BT3 / 336DT3, ARUN360BT3 / 360DT3;
ARUB312BT3 / 312DT3, ARUB336BT3 / 336DT3, ARUB360BT3 / 360DT3

X1	11-1/2"
X2	23-1/8"
Y1	17-13/16"
Y2	14-5/8"
Z1	29-5/16"
Z2	25-13/16"
W1	36-1/4"
W2	48-13/16"
D	29-15/16"
H	66-1/8"
L1	7-1/4"
L2	2-15/16"
L3	3-1/8"
L4	5-1/2"
L5	5-3/8"
L6	22-7/16
L7	2-9/16
L8	2-9/16
L9	24-3/16"
L10	2-9/16"
L11	3-5/16"
M1	29-1/16"
M2	7/16"
M3	2-5/8"
M4	31-3/16"
M5	2-5/8"
M6	43-3/8"



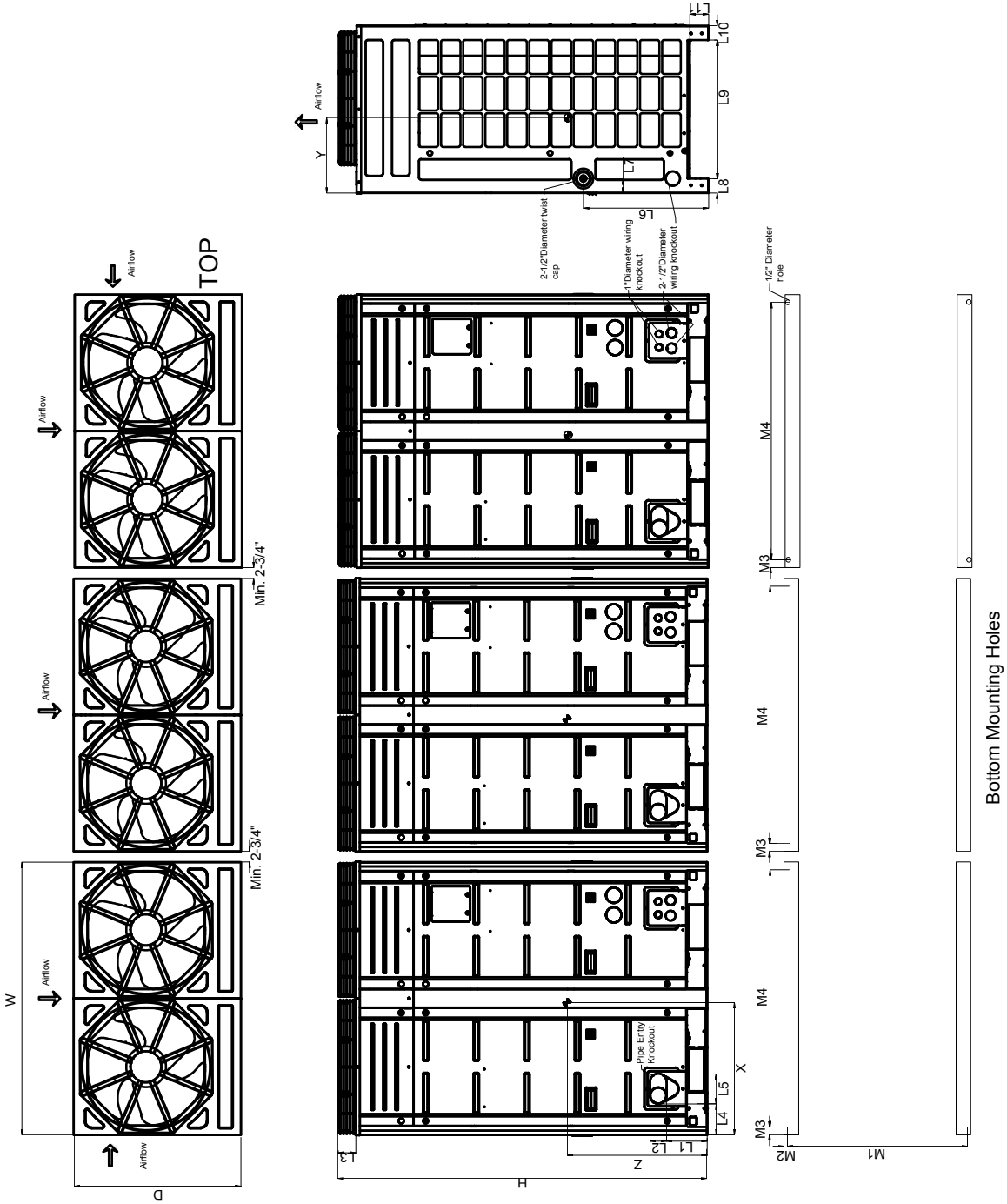
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OUTDOOR UNIT DIMENSIONS

MULTI V III

ARUN384BT3 / 384DT3, ARUN408BT3 / 408DT3, ARUN432BT3 / 432DT3;
ARUB384BT3 / 384DT3, ARUB408BT3 / 408DT3, ARUB432BT3 / 432DT3

X	23-1/8"
Y	14-15/16"
Z	25-13/16"
W	48-13/16"
D	29-15/16"
H	66-1/8"
L1	7-1/4"
L2	2-15/16"
L3	3-1/8"
L4	5-1/2"
L5	5-3/8"
L6	22-7/16
L7	2-9/16
L8	2-9/16
L9	24-3/16"
L10	2-9/16"
L11	3-5/16"
M1	29-1/16"
M2	7/16"
M3	2-5/8"
M4	43-3/8"

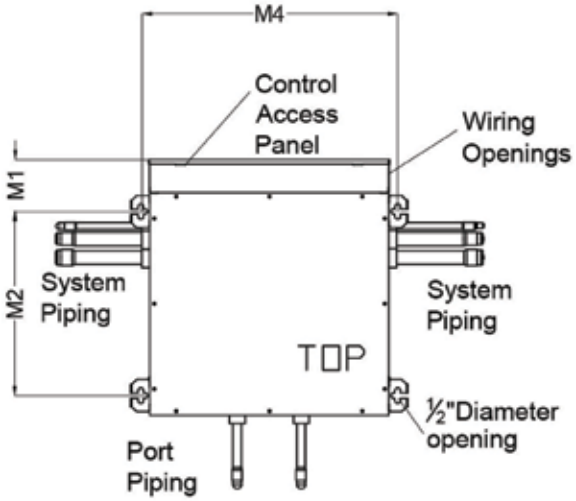


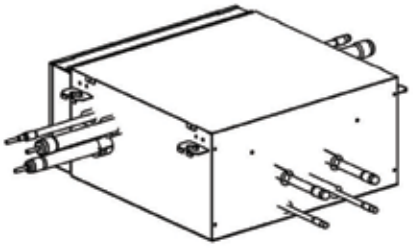
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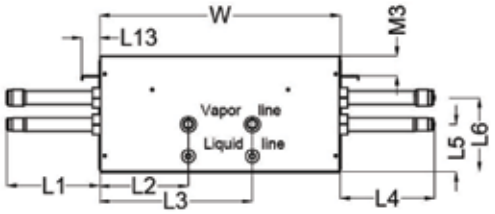
LG

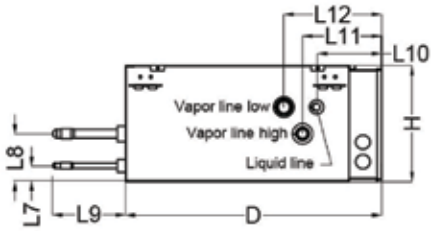
HEAT RECOVERY UNIT DIMENSIONS

PRHR021A

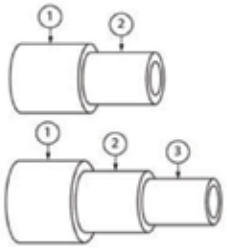








W	17-7/8"
H	8-5/8"
D	18-15/16"
L1	6-7/8"
L2	6-5/8"
L3	11-3/8"
L4	6-7/8"
L5	3-1/2"
L6	5-1/2"
L7	1-3/16"
L8	3-9/16"
L9	5-7/16"
L10	4-3/4"
L11	5-3/4"
L12	7-1/4"
L13	1-1/4"
M1	3-3/4"
M2	13-5/8"
M3	1-1/2"
M4	18-15/16"

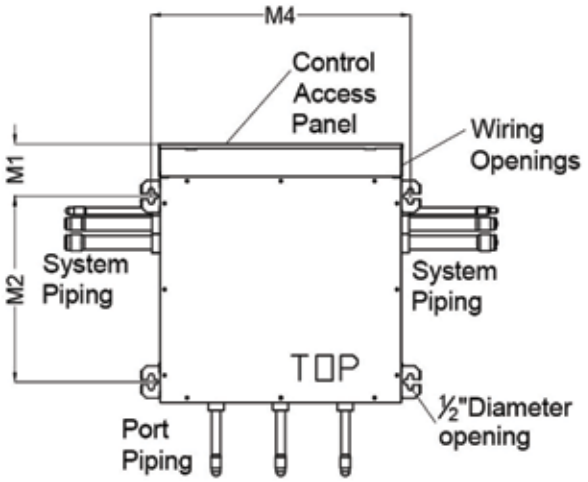


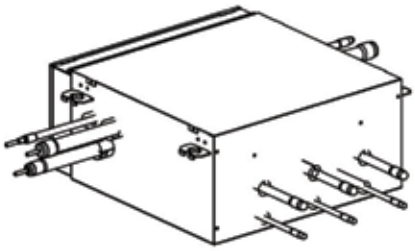
Reducer Dimensions (in)					
		1	2	3	Quantity
Indoor Unit	Liquid Line	3/8 OD	1/4 OD	-	2
	Vapor Line	5/8 OD	1/2 OD	-	2
HR Unit	Liquid Line	3/8 OD	1/4 OD	-	2
	Vapor Line Low	5/8 OD	1/2 OD	-	2
		7/8 OD	3/4 OD	5/8 OD	2
	Vapor Line High	1/2 OD	3/8 OD	-	2
		3/4 OD	5/8 OD	1/2 OD	2

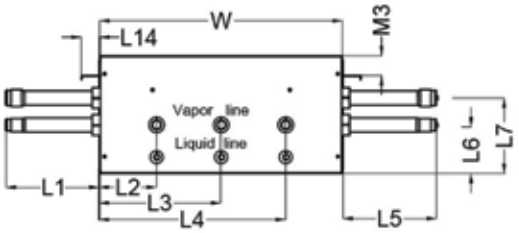
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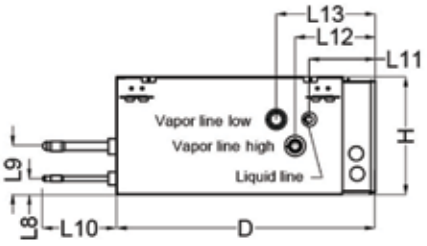
HEAT RECOVERY UNIT DIMENSIONS

PRHR031A

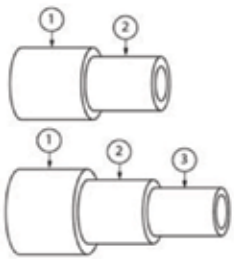








W	17-7/8"
H	8-5/8"
D	18-15/16"
L1	6-7/8"
L2	4-1/4"
L3	9"
L4	13-3/4"
L5	6-7/8"
L6	3-1/2"
L7	5-1/2"
L8	1-3/16"
L9	3-9/16"
L10	5-7/16"
L11	4-3/4"
L12	5-3/4"
L13	7-1/4"
L14	1-1/4"
M1	3-3/4"
M2	13-5/8"
M3	1-1/2"
M4	18-15/16"

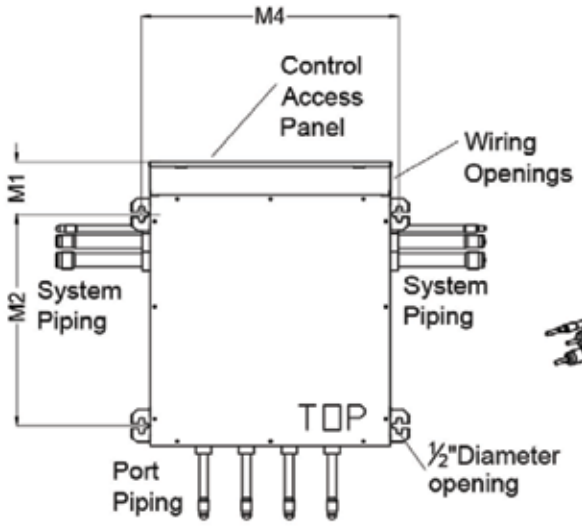


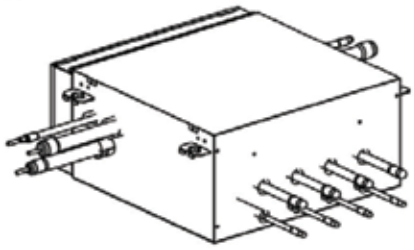
Reducer Dimensions (in)					
		1	2	3	Quantity
Indoor Unit	Liquid Line	3/8 OD	1/4 OD	-	3
	Vapor Line	5/8 OD	1/2 OD	-	3
HR Unit	Liquid Line	1/2 OD	3/8 OD	-	2
	Vapor Line Low	3/4 OD	5/8 OD	-	2
		1-1/8 OD	7/8 OD	3/4 OD	2
	Vapor Line High	5/8 OD	1/2 OD	-	2
		7/8 OD	3/4 OD	5/8 OD	2

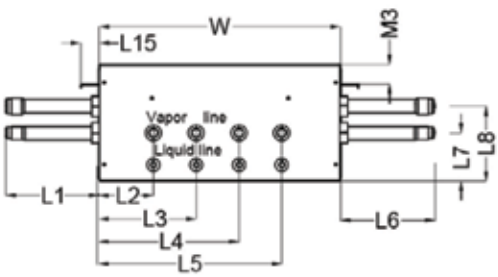
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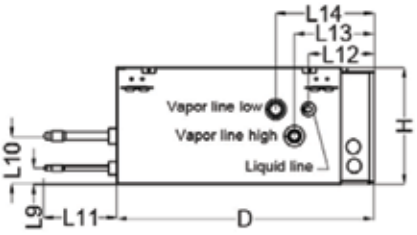
HEAT RECOVERY UNIT DIMENSIONS

PRHR041A

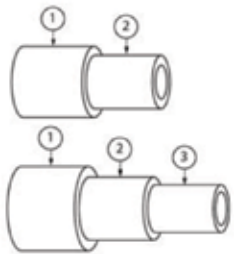








W	17-7/8"
H	8-5/8"
D	18-15/16"
L1	6-7/8"
L2	4-1/4"
L3	7-1/2"
L4	10-1/2"
L5	13-3/4"
L6	6-7/8"
L7	3-1/2"
L8	5-1/2"
L9	1-3/16"
L10	3-9/16"
L11	5-7/16"
L12	4-3/4"
L13	5-3/4"
L14	7-1/4"
L15	1-1/4"
M1	3-3/4"
M2	13-5/8"
M3	1-1/2"
M4	18-15/16"



Reducer Dimensions (in)					
		1	2	3	Quantity
Indoor Unit	Liquid Line	3/8 OD	1/4 OD	-	4
	Vapor Line	5/8 OD	1/2 OD	-	4
HR Unit	Liquid Line	1/2 OD	3/8 OD	-	2
	Vapor Line Low	3/4 OD	5/8 OD	-	2
		1-1/8 OD	7/8 OD	3/4 OD	2
	Vapor Line High	5/8 OD	1/2 OD	-	2
		7/8 OD	3/4 OD	5/8 OD	2

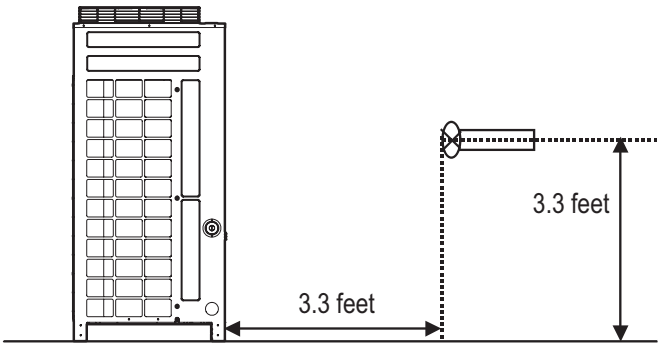
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ACOUSTIC DATA

Measurement Location

Heat Pump Models		dB(A)
208-230V	460V	
ARUN072BT3	ARUN072DT3	57
ARUN096BT3	ARUN096DT3	58
ARUN121BT3	ARUN121DT3	58
ARUN144BT3	ARUN144DT3	58
ARUN168BT3	ARUN168DT3	61
ARUN192BT3	ARUN192DT3	61
ARUN216BT3	ARUN216DT3	61
ARUN240BT3	ARUN240DT3	61
ARUN264BT3	ARUN264DT3	61
ARUN288BT3	ARUN288DT3	61
ARUN312BT3	ARUN312DT3	62
ARUN336BT3	ARUN336DT3	62
ARUN360BT3	ARUN360DT3	62
ARUN384BT3	ARUN384DT3	63
ARUN408BT3	ARUN408DT3	63
ARUN432BT3	ARUN432DT3	63

Heat Recovery Models		dB(A)
208-230V	460V	
ARUB072BT3	ARUB072DT3	57
ARUB096BT3	ARUB096DT3	58
ARUB121BT3	ARUB121DT3	58
ARUB144BT3	ARUB144DT3	58
ARUB168BT3	ARUB168DT3	61
ARUB192BT3	ARUB192DT3	61
ARUB216BT3	ARUB216DT3	61
ARUB240BT3	ARUB240DT3	61
ARUB264BT3	ARUB264DT3	61
ARUB288BT3	ARUB288DT3	61
ARUB312BT3	ARUB312DT3	62
ARUB336BT3	ARUB336DT3	62
ARUB360BT3	ARUB360DT3	62
ARUB384BT3	ARUB384DT3	63
ARUB408BT3	ARUB408DT3	63
ARUB432BT3	ARUB432DT3	63



- Measurement taken 3.3' above finished floor, and at a distance of 3.3' from face of unit.
- Measurements taken with no attenuation and units operating at full load normal operating condition.
- Sound level will vary depending on a range of factors such as construction (acoustic absorption coefficient) of particular area in which the equipment is installed.
- Sound level may be increased in static pressure mode or if air guide is used.
- Sound power levels are measured in dB(A)±3.
- Tested in anechoic chamber per ISO Standard 1996.

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Figure 7: ARUN072BT3 / ARUN072DT3.

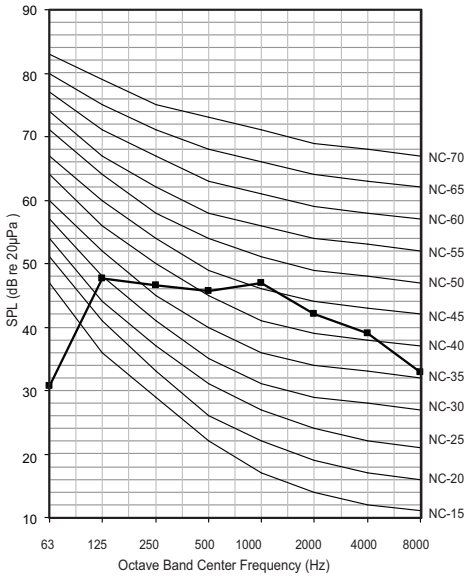


Figure 8: ARUN096BT3 / ARUN096DT3, ARUN121BT3 / ARUN121DT3, ARUN144BT3 / ARUN144DT3.

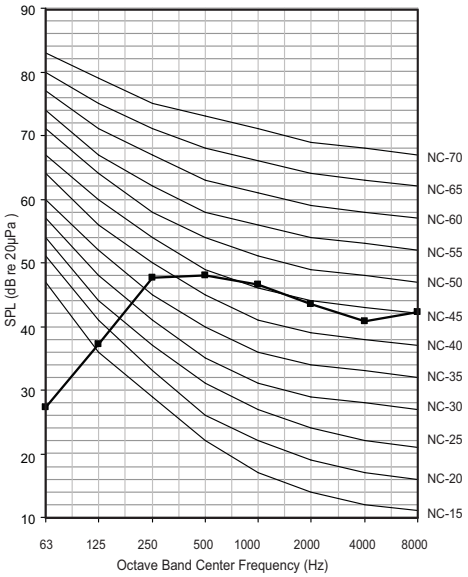


Figure 9: ARUN168BT3 / ARUN168DT3, ARUN192BT3 / ARUN192DT3, ARUN216BT3 / ARUN216DT3.

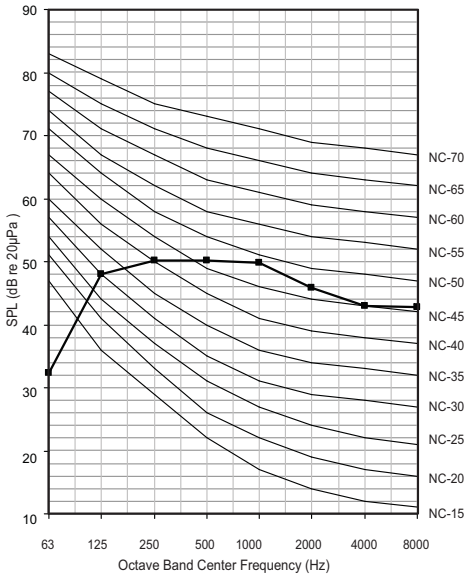


Figure 10: ARUN240BT3 / ARUN240DT3, ARUN264BT3 / ARUN264DT3, ARUN288BT3 ARUN288DT3.

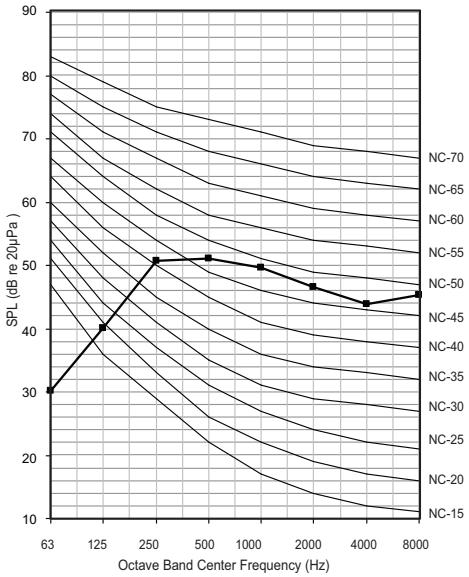


Figure 11: ARUN312BT3 / ARUN312DT3, ARUN336BT3 / ARUN336DT3, ARUN360BT3 / ARUN360DT3.

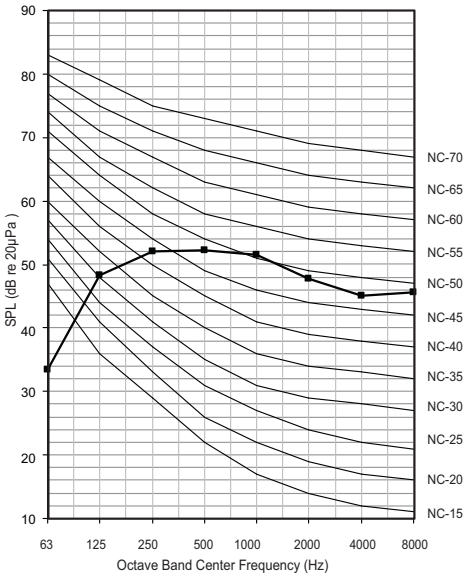
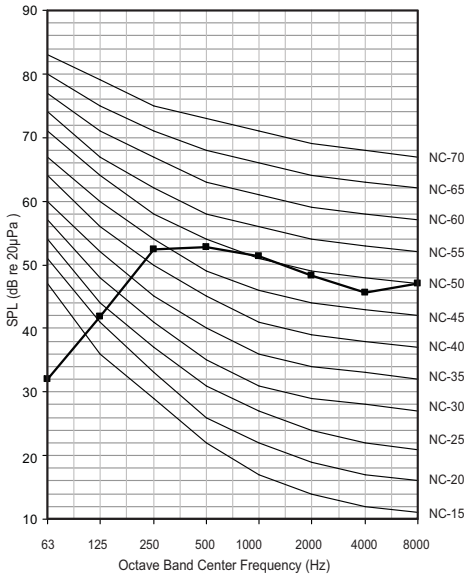


Figure 12: ARUN384BT3 / ARUN384DT3, ARUN408BT3 / ARUN408DT3, ARUN432BT3 / ARUN432DT3.



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ACOUSTIC DATA

Sound Pressure Levels

ARUB Series Heat Recovery

Figure 13: ARUB072BT3 / ARUB072DT3.

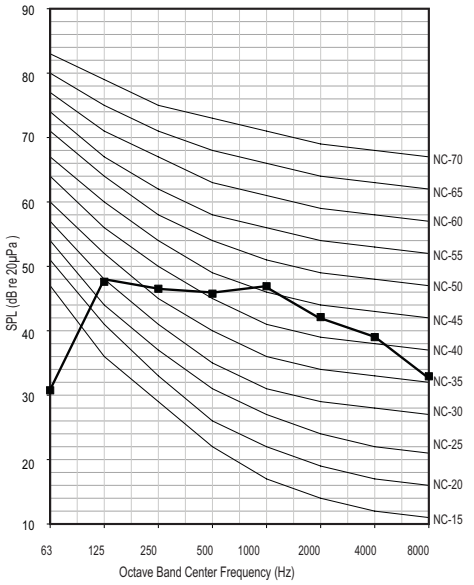


Figure 14: ARUB096BT3 / ARUB096DT3, ARUB121BT3 / ARUB121DT3, ARUB144BT3 / ARUB144DT3.

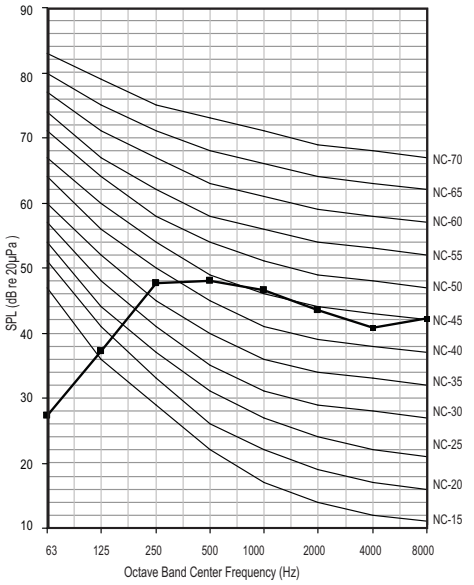


Figure 15: ARUB168BT3 / ARUB168DT3, ARUB192BT3 / ARUB192DT3, ARUB216BT3 / ARUB216DT3.

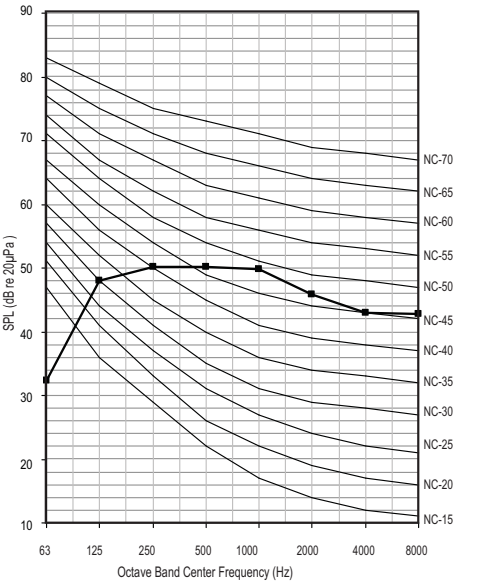


Figure 16: ARUB240BT3 / ARUB240DT3, ARUB264BT3 / ARUB264DT3, ARUB288BT3 / ARUB288DT3.

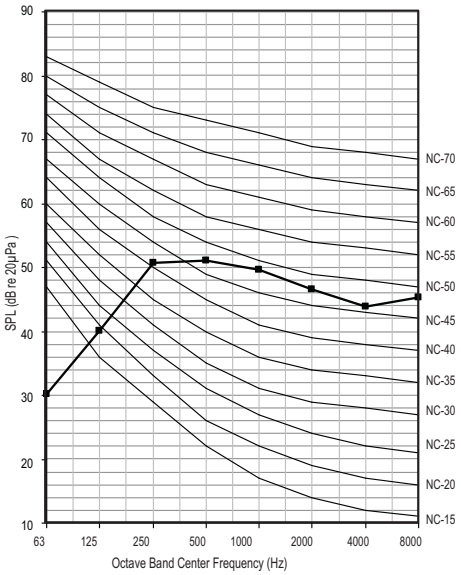


Figure 17: ARUB312BT3 / ARUB312DT3, ARUB336BT3 / ARUB336DT3, ARUB360BT3 / ARUB360DT3.

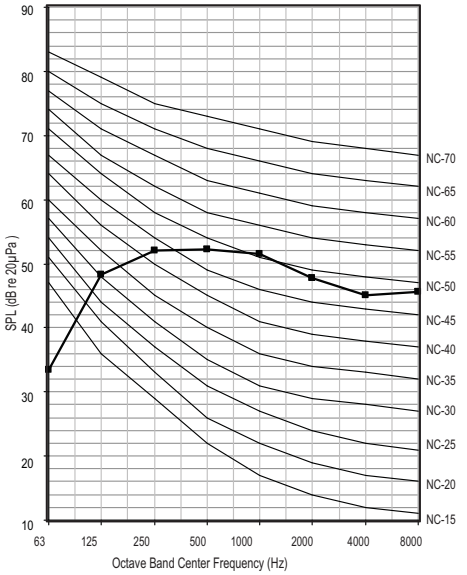
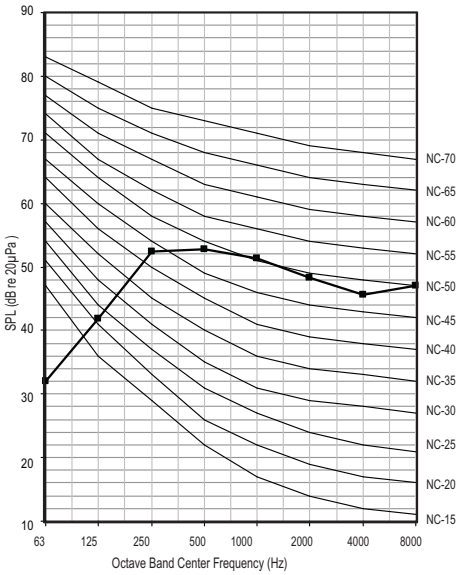


Figure 18: ARUN384BT3 / ARUB384DT3, ARUN408BT3 / ARUB408DT3, ARUN432BT3 / ARUB432DT3.

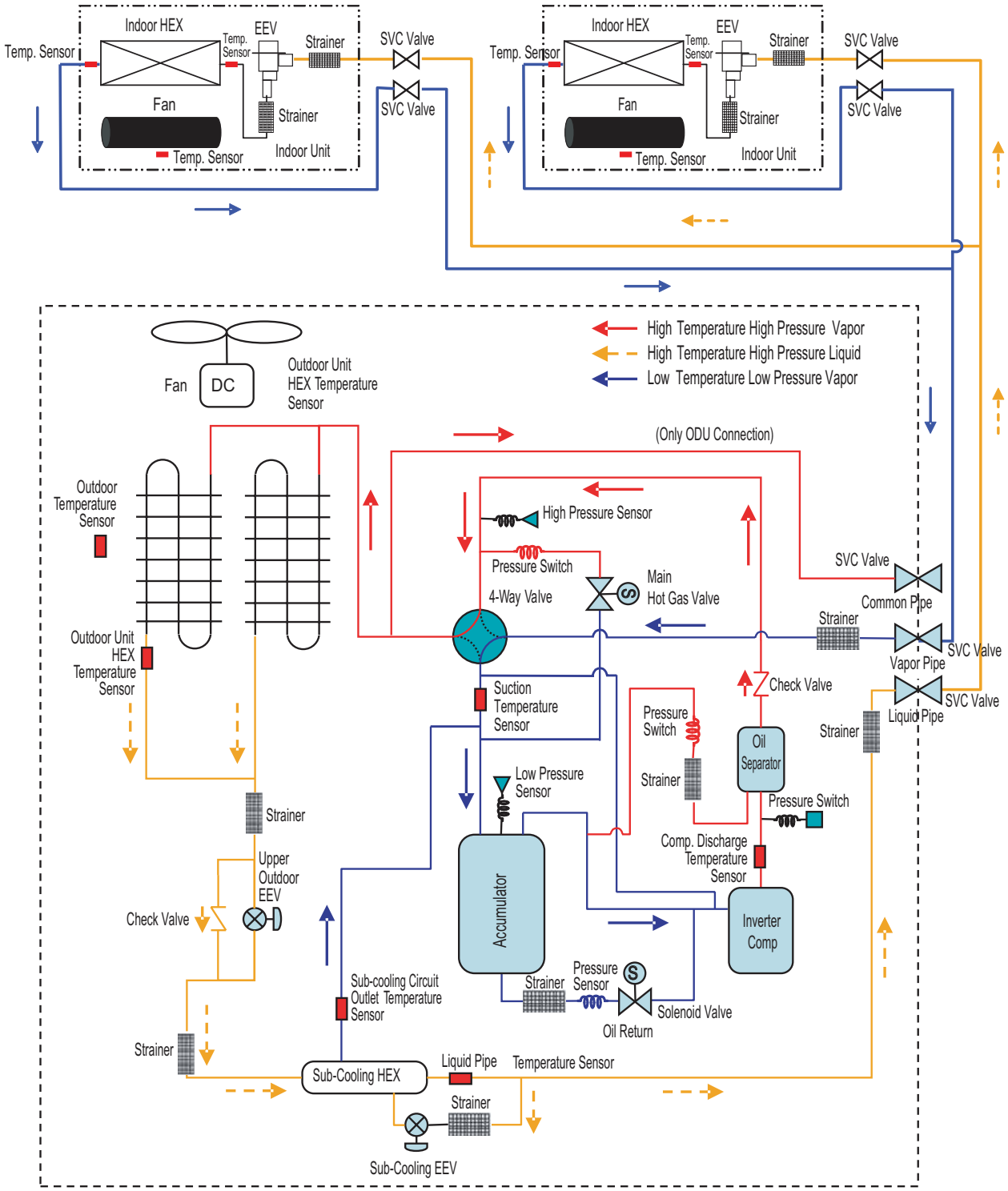


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REFRIGERANT FLOW DIAGRAMS

ARUN072BT3 / ARUN072DT3 Heat Pump

Cooling Mode



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

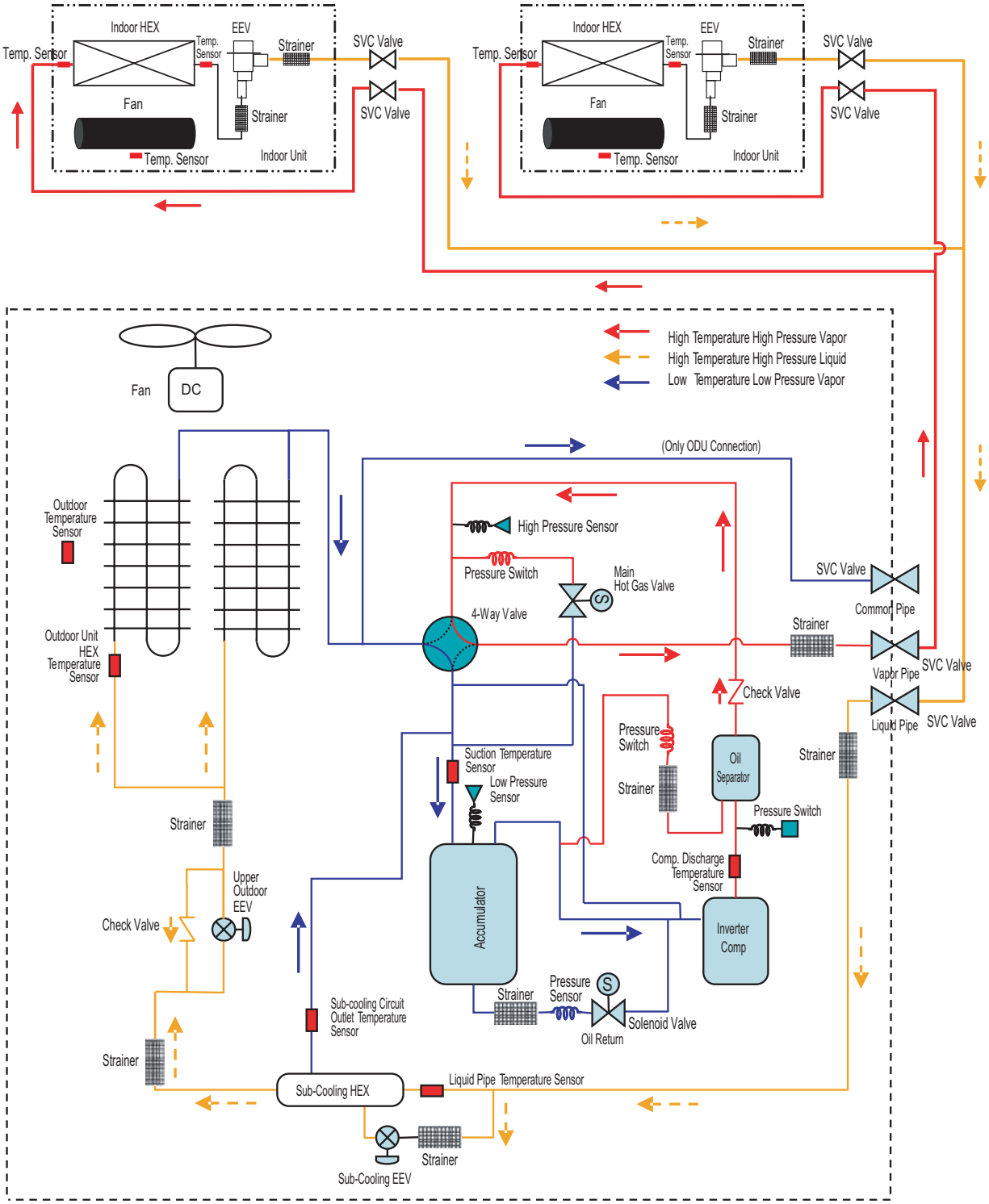
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REFRIGERANT FLOW DIAGRAMS

MULTI V III

Heating Mode

ARUN072BT3 / ARUN072DT3 Heat Pump



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

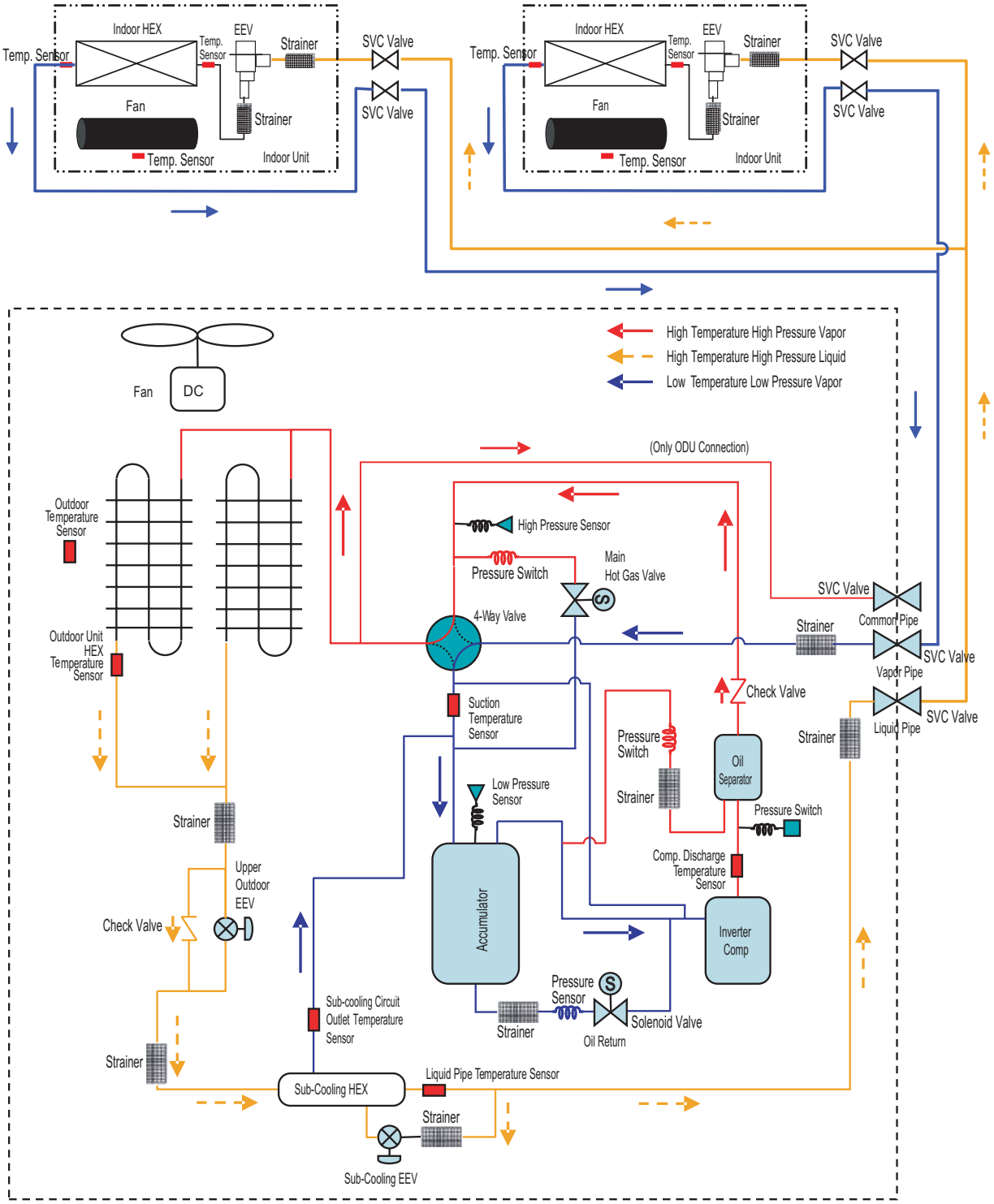
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REFRIGERANT FLOW DIAGRAMS

ARUN072BT3 / ARUN072DT3 Heat Pump

Oil Return and Defrost Operation



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

Product Data

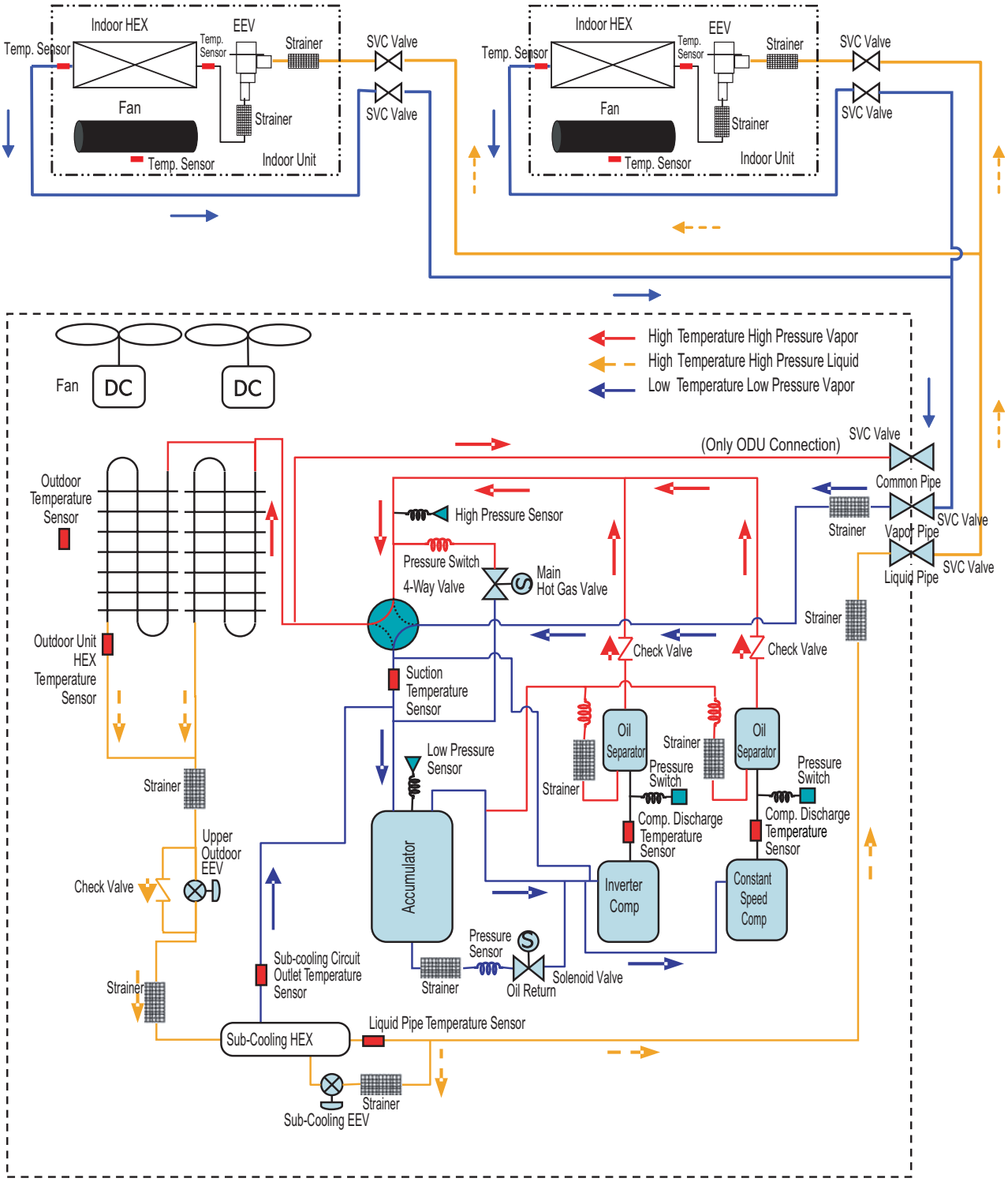
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REFRIGERANT FLOW DIAGRAMS

MULTI V III

Cooling Mode

ARUN096BT3 / ARUN096DT3, ARUN121BT3 / ARUN121DT3, ARUN144BT3 / ARUN144DT3 Heat Pump



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

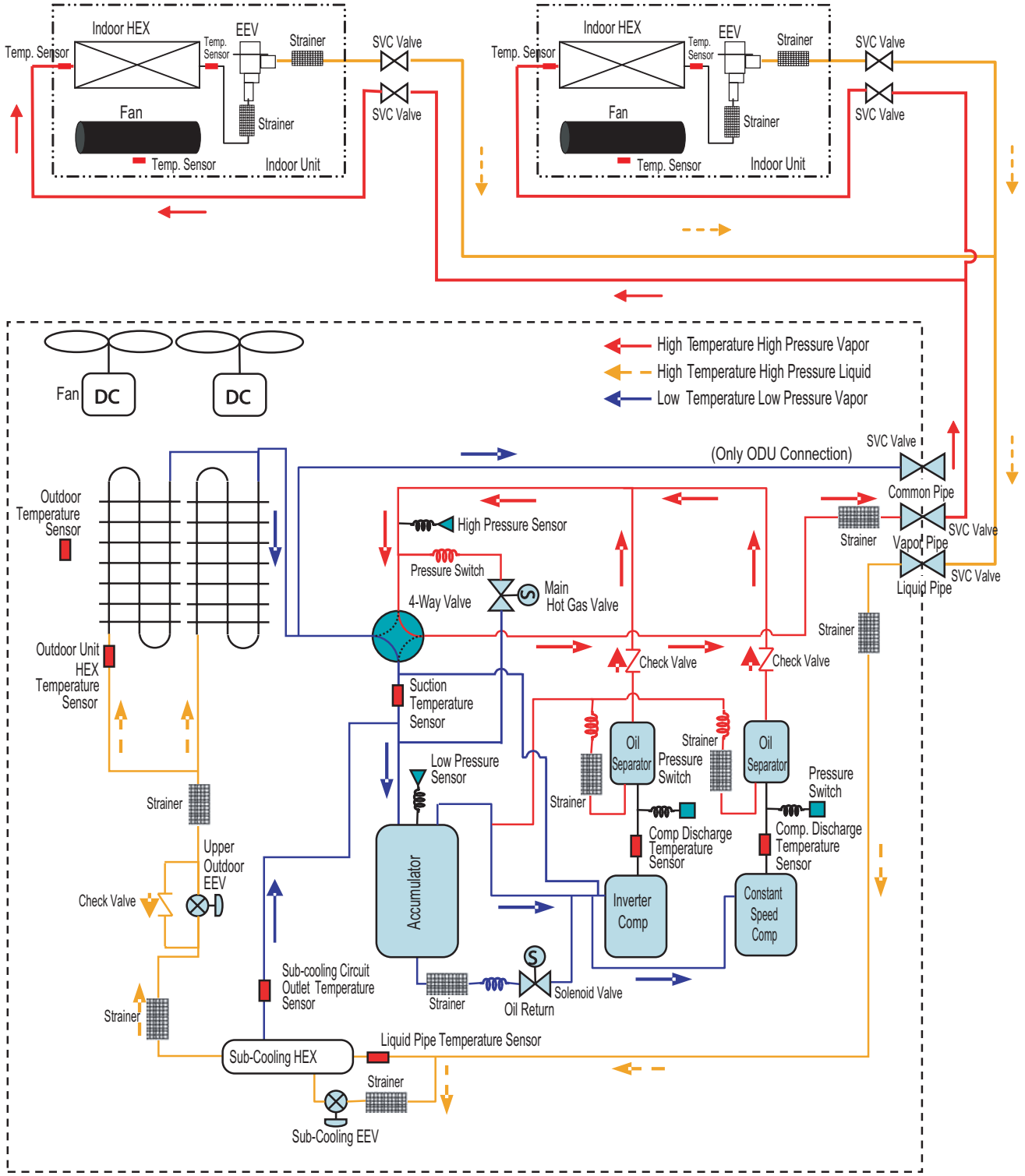
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REFRIGERANT FLOW DIAGRAMS

ARUN096BT3 / ARUN096DT3, ARUN121BT3 / ARUN121DT3, ARUN144BT3 / ARUN144DT3 Heat Pump

Heating Mode



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

Product Data

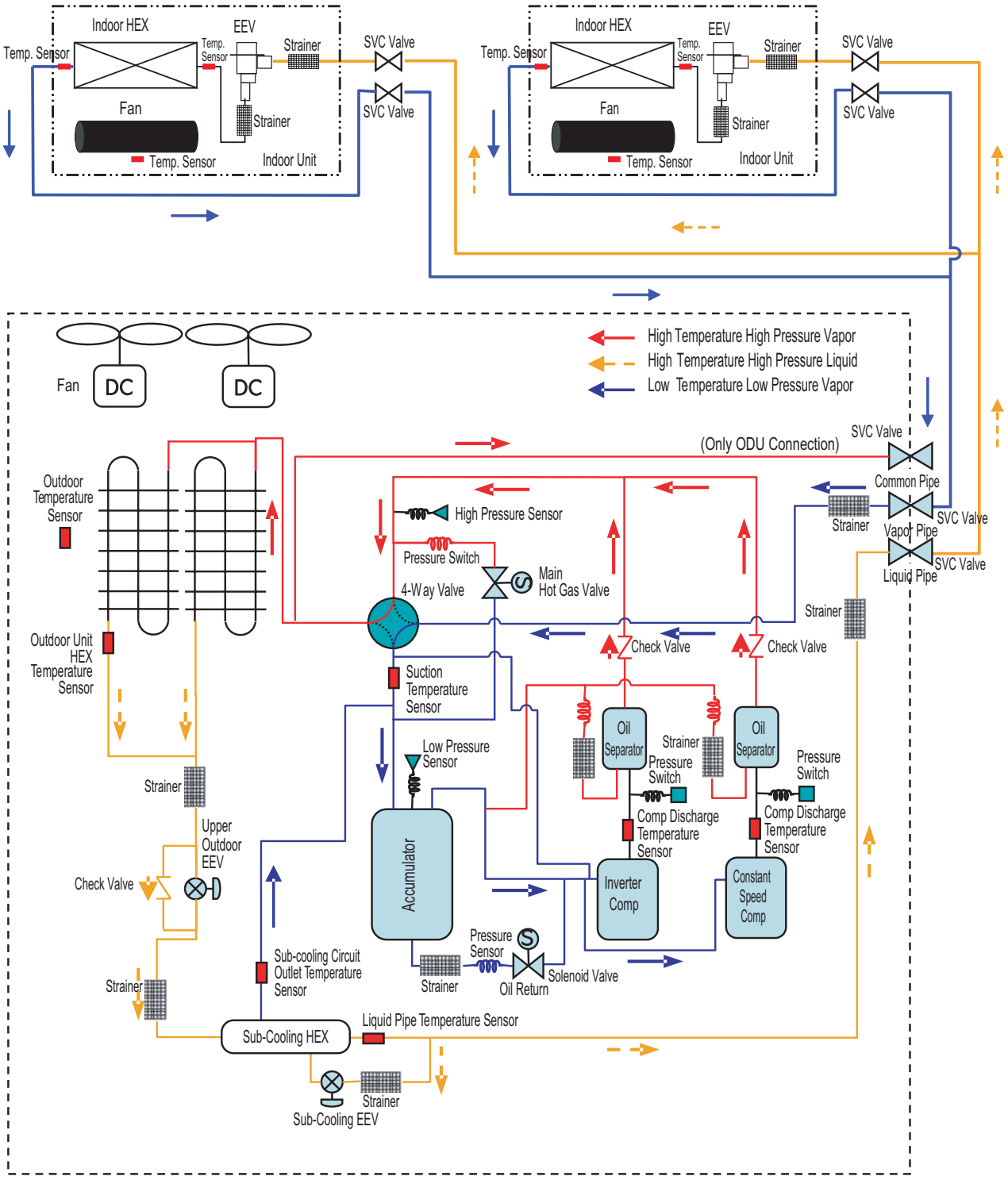
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REFRIGERANT FLOW DIAGRAMS

MULTI V III

Oil Return and Defrost Operation

ARUN096BT3 / ARUN096DT3, ARUN121BT3 / ARUN121DT3, ARUN144BT3 / ARUN144DT3 Heat Pump



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

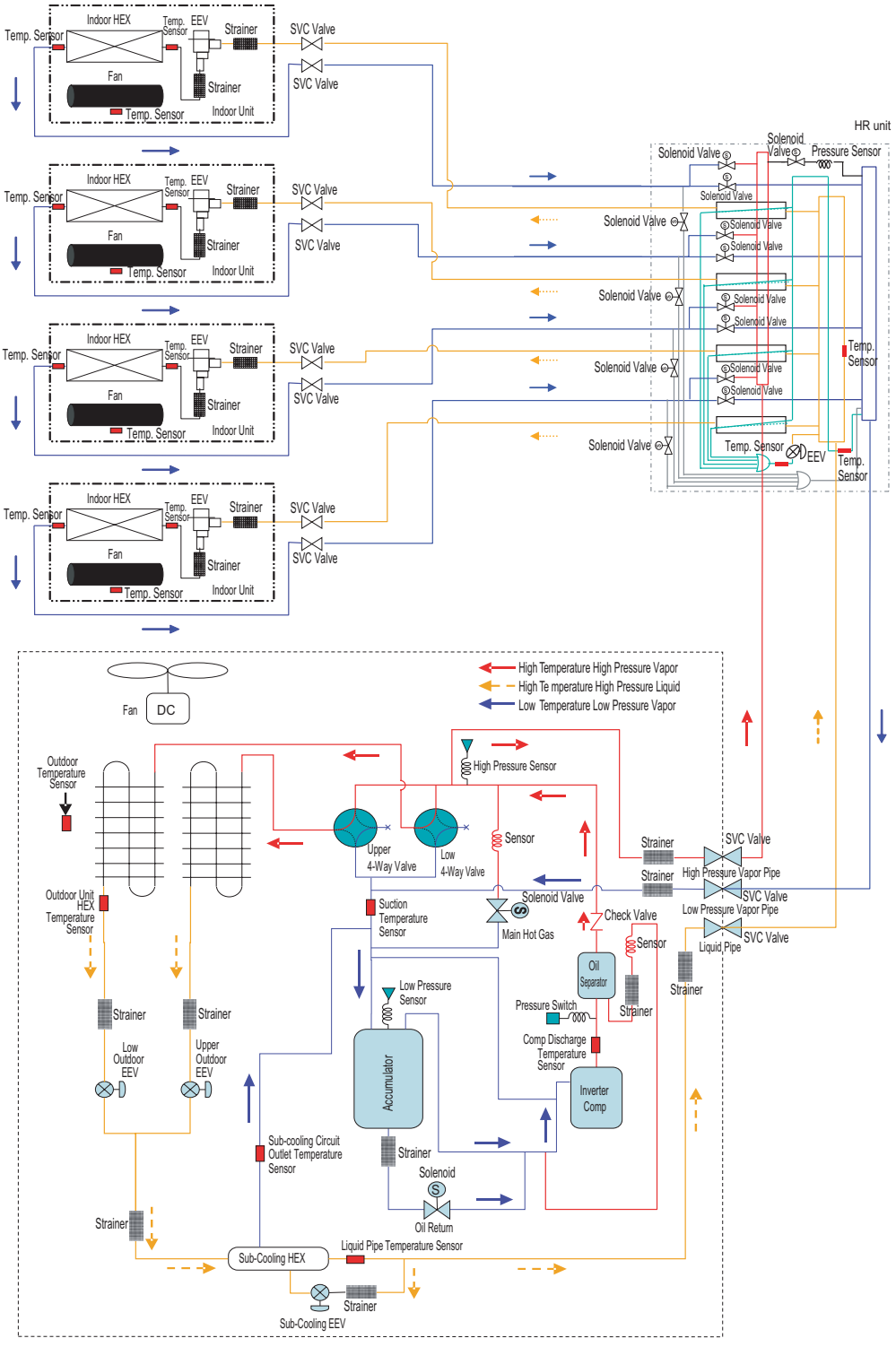
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REFRIGERANT FLOW DIAGRAMS

ARUB072BT3 / ARUB072DT3 Heat Recovery

Cooling Mode



Remarks				
Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
Pressure Switch	SVC Valve	EEV	Strainer

Product Data

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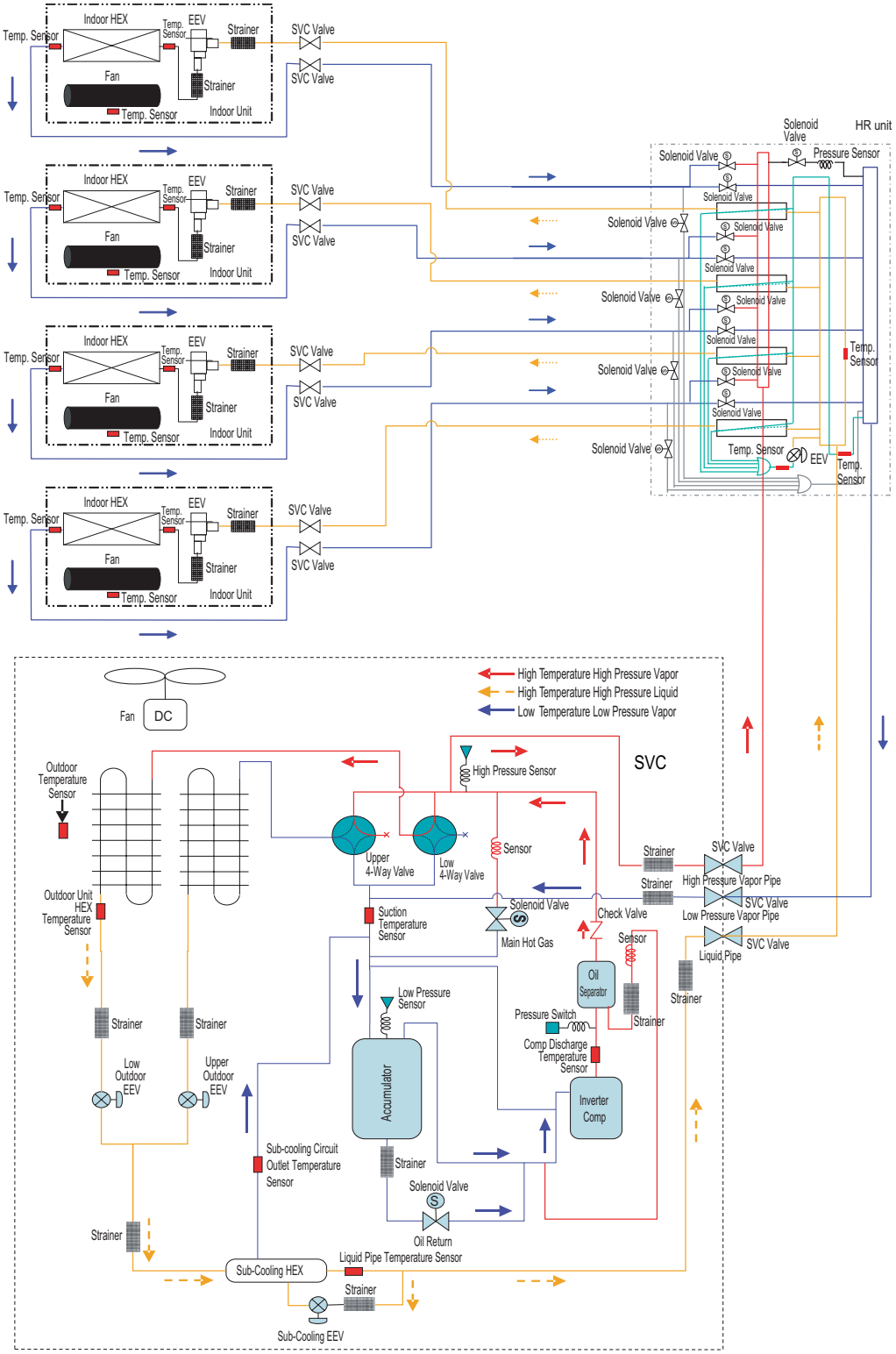
REFRIGERANT FLOW DIAGRAMS

MULTI V III

Cooling at Low Ambient Temperatures

ARUB072BT3 / ARUB072DT3

Heat Recovery



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

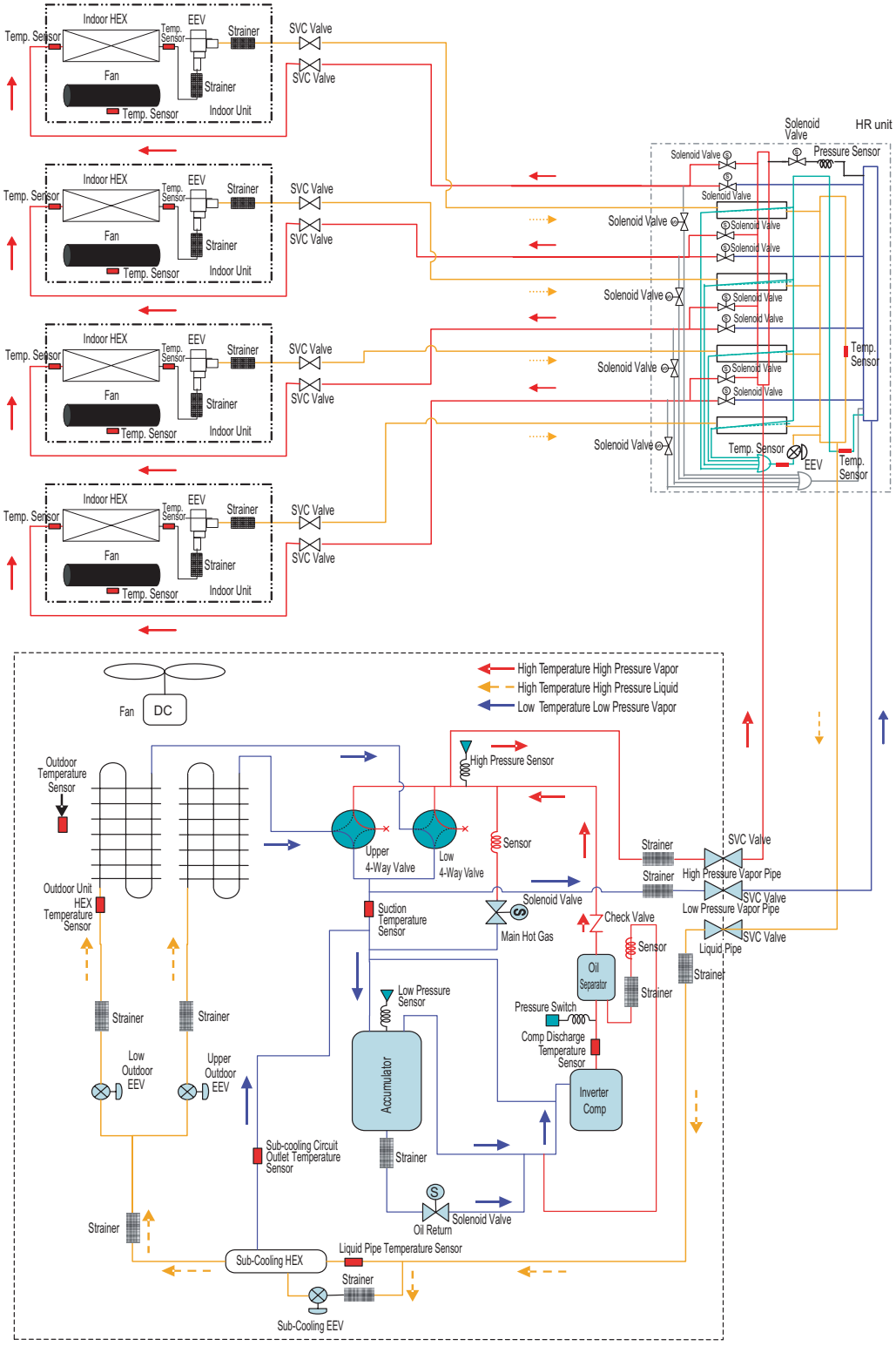
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REFRIGERANT FLOW DIAGRAMS

ARUB072BT3 / ARUB072DT3 Heat Recovery

Heating



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

Product Data

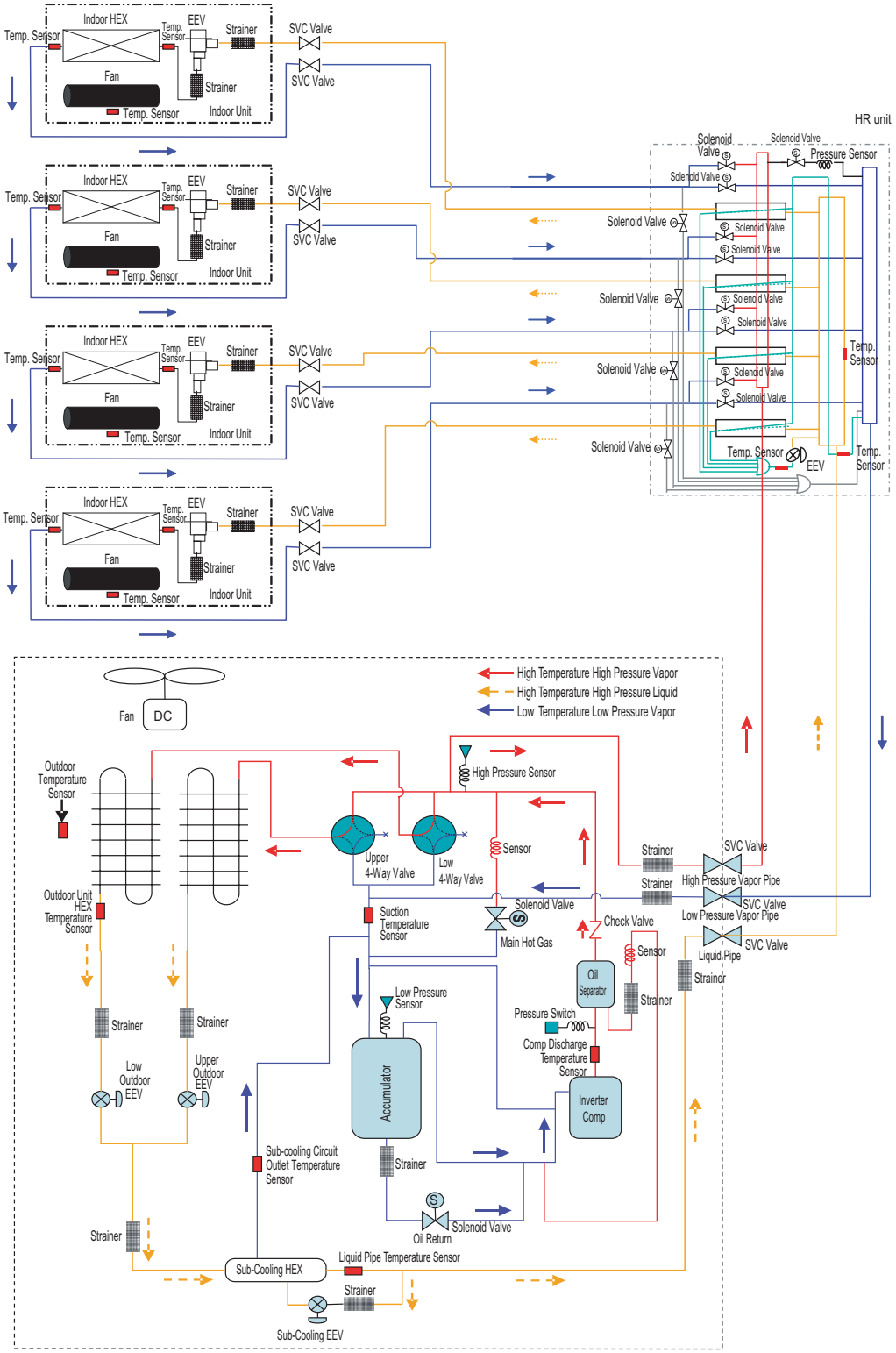
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REFRIGERANT FLOW DIAGRAMS

MULTI V III

Oil Return and Defrost Operation

ARUB072BT3 / ARUB072DT3 Heat Recovery



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

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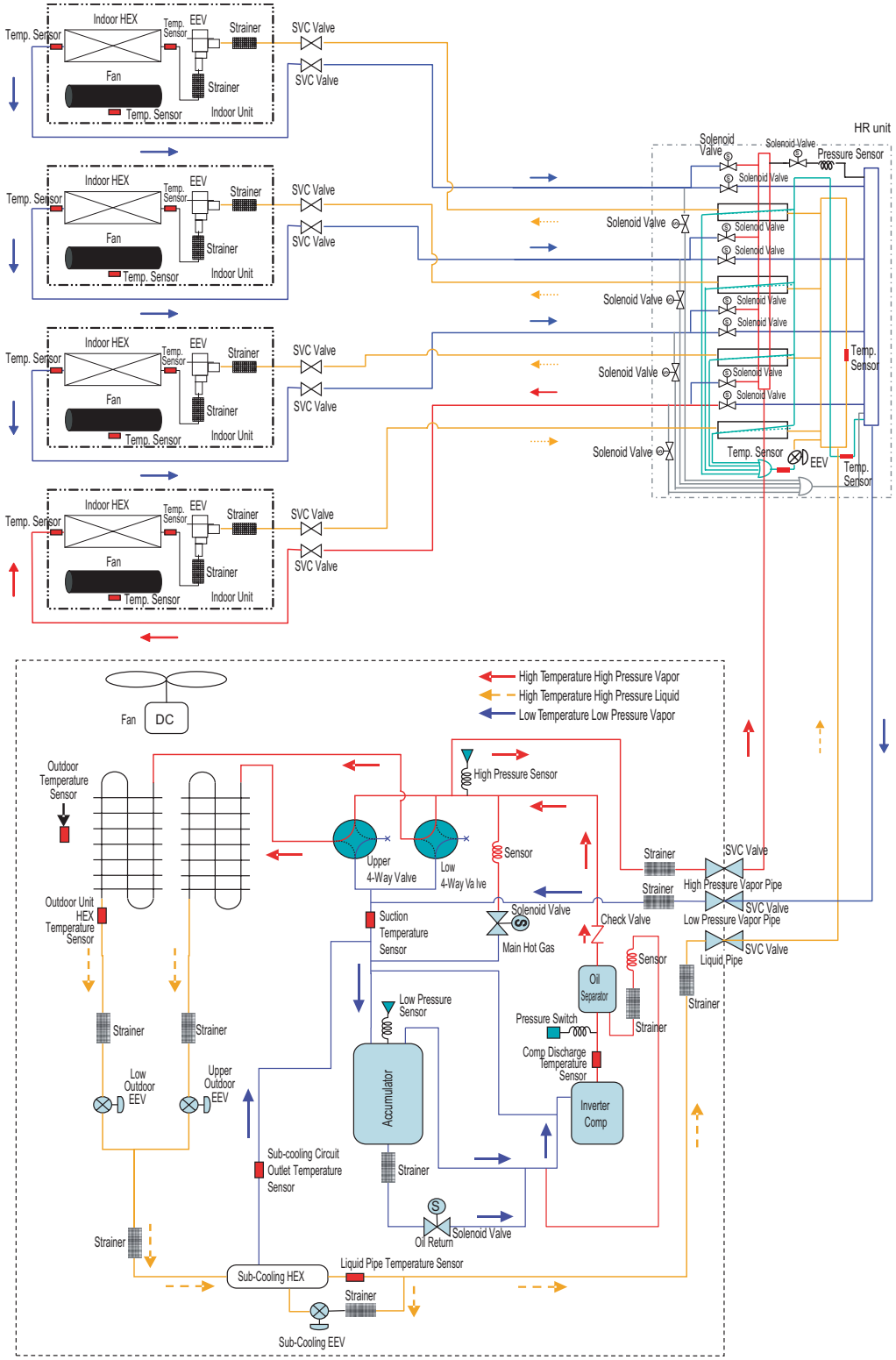
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REFRIGERANT FLOW DIAGRAMS

ARUB072BT3 / ARUB072DT3

Cooling-based Simultaneous Operation

Heat Recovery



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

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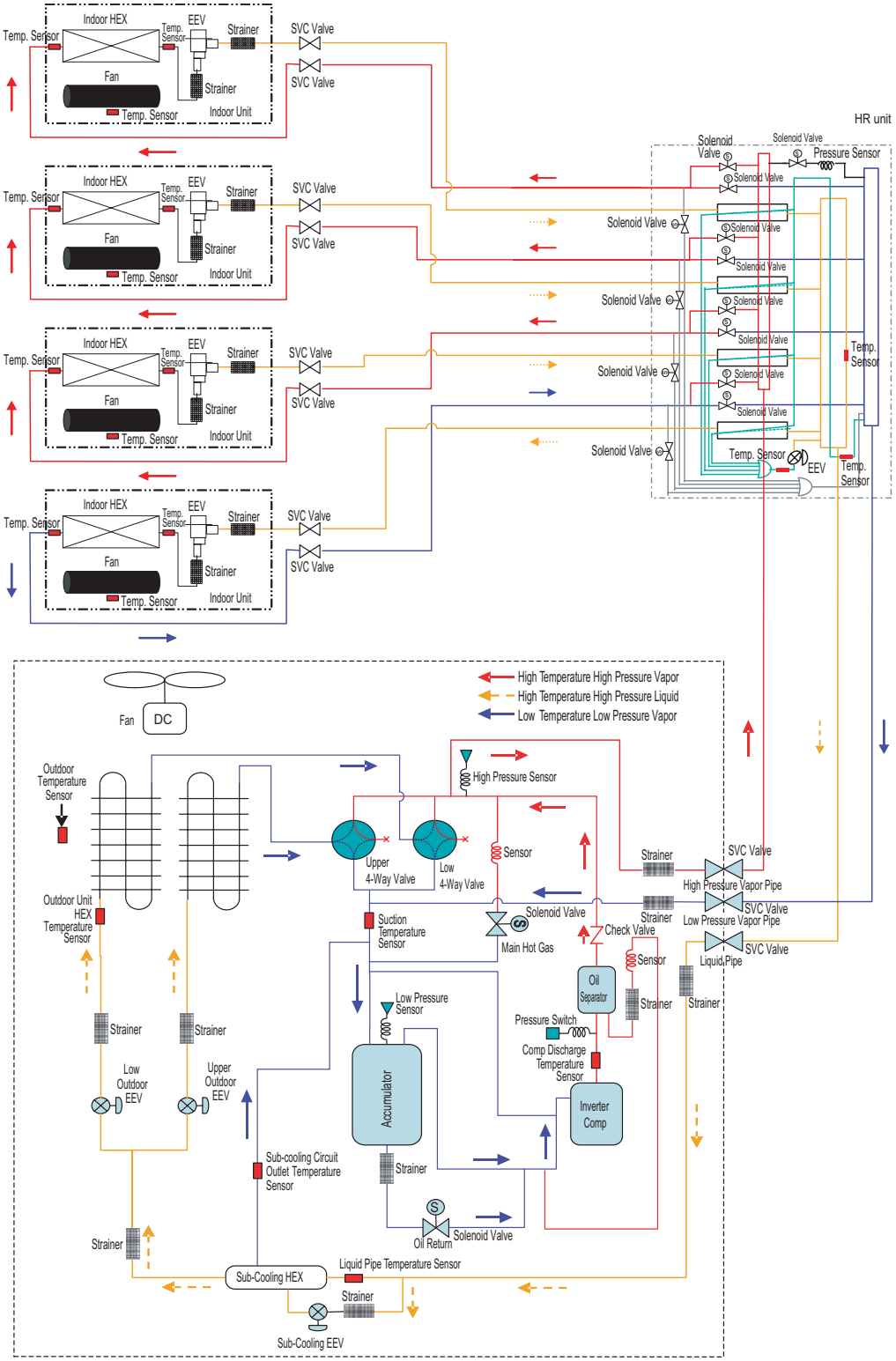
REFRIGERANT FLOW DIAGRAMS

MULTI V III

Heating-based Simultaneous Operation

ARUB072BT3 / ARUB072DT3

Heat Recovery



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

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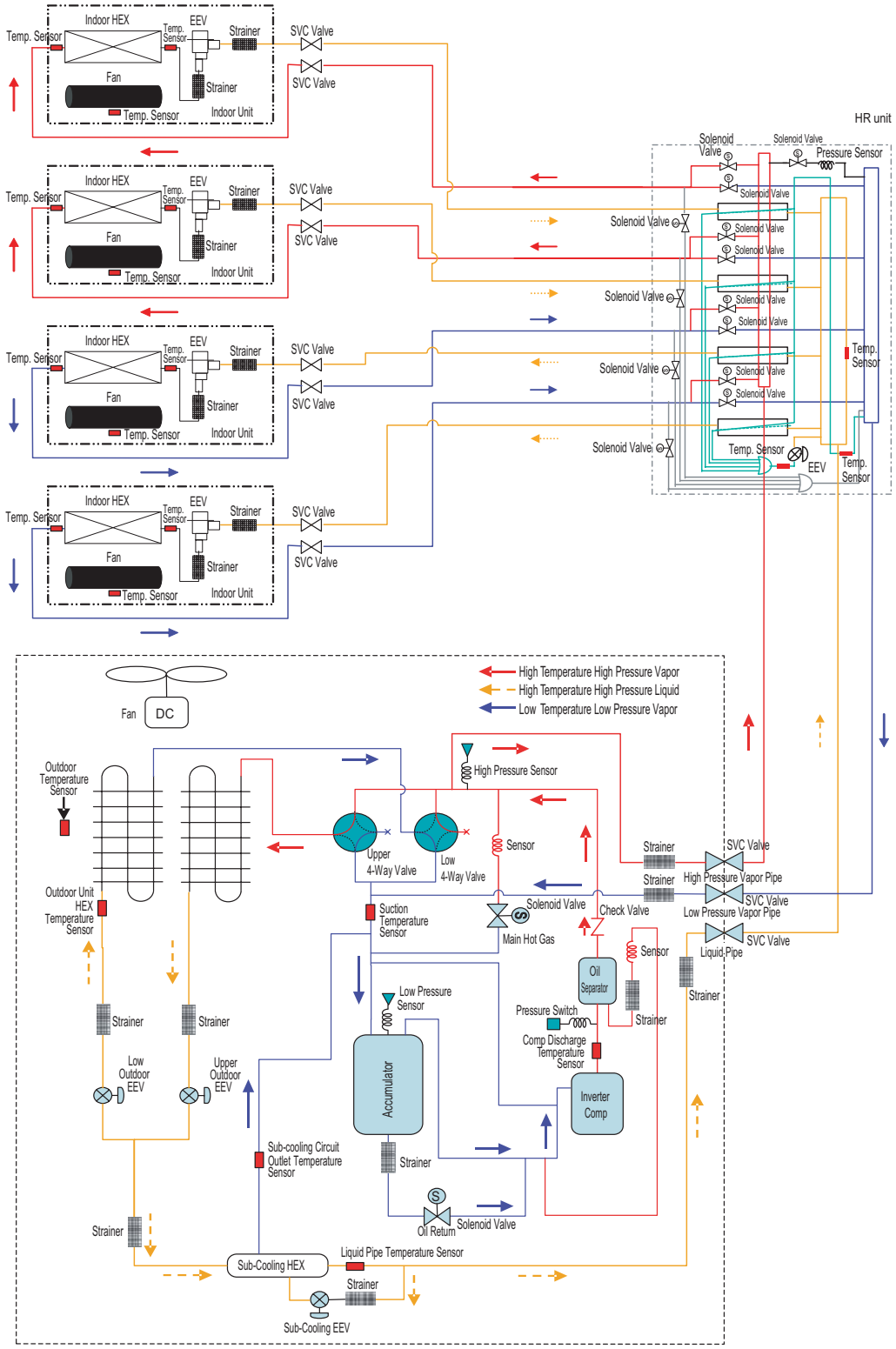
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REFRIGERANT FLOW DIAGRAMS

ARUB072BT3 / ARUB072DT3

Balanced Simultaneous Operation

Heat Recovery



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

Product Data

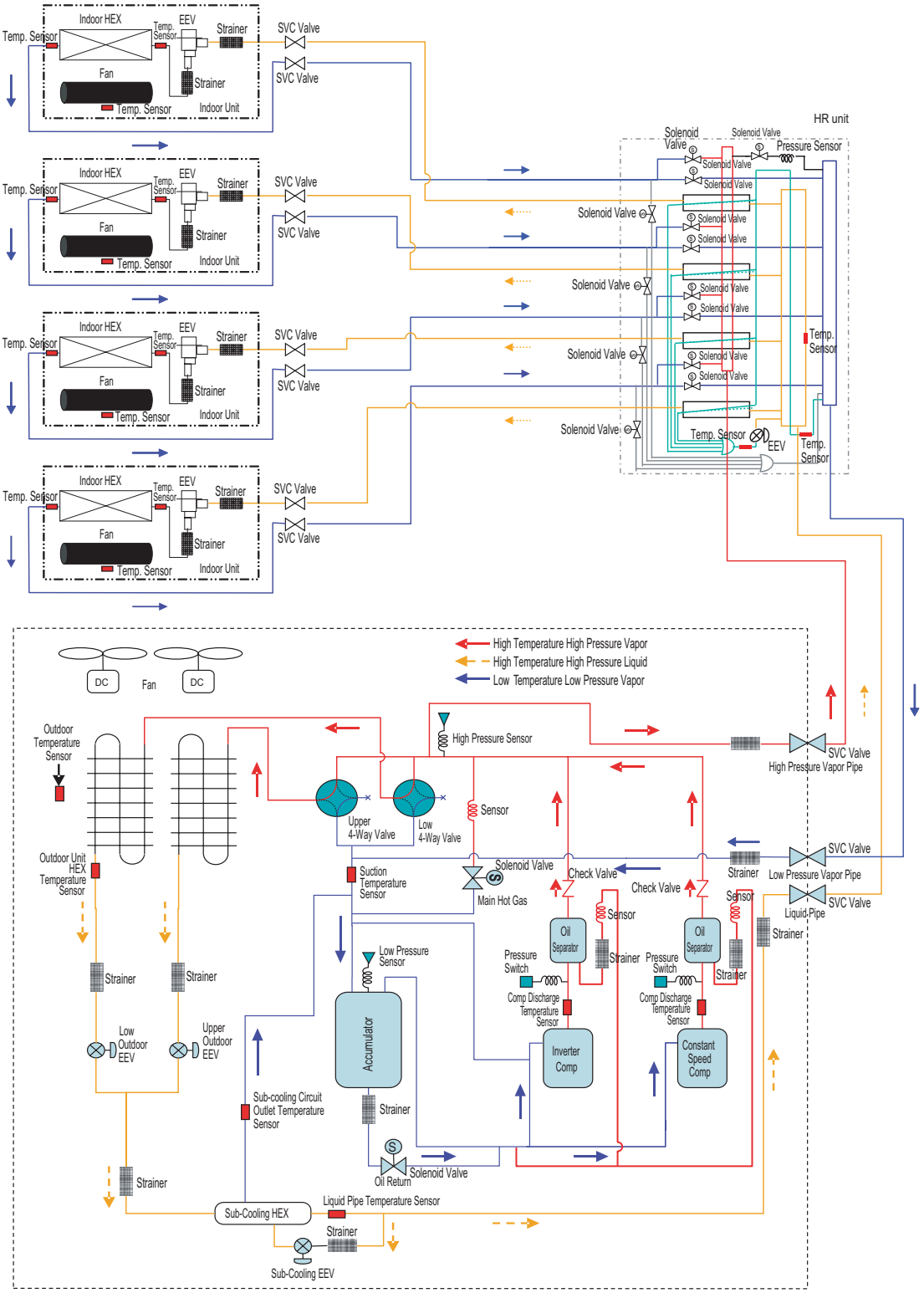
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REFRIGERANT FLOW DIAGRAMS

MULTI V III

Cooling Mode

ARUB096BT3 / ARUB096DT3, ARUB121BT3 / ARUB121DT3,
ARUB144BT3 / ARUB144DT3 Heat Recovery



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

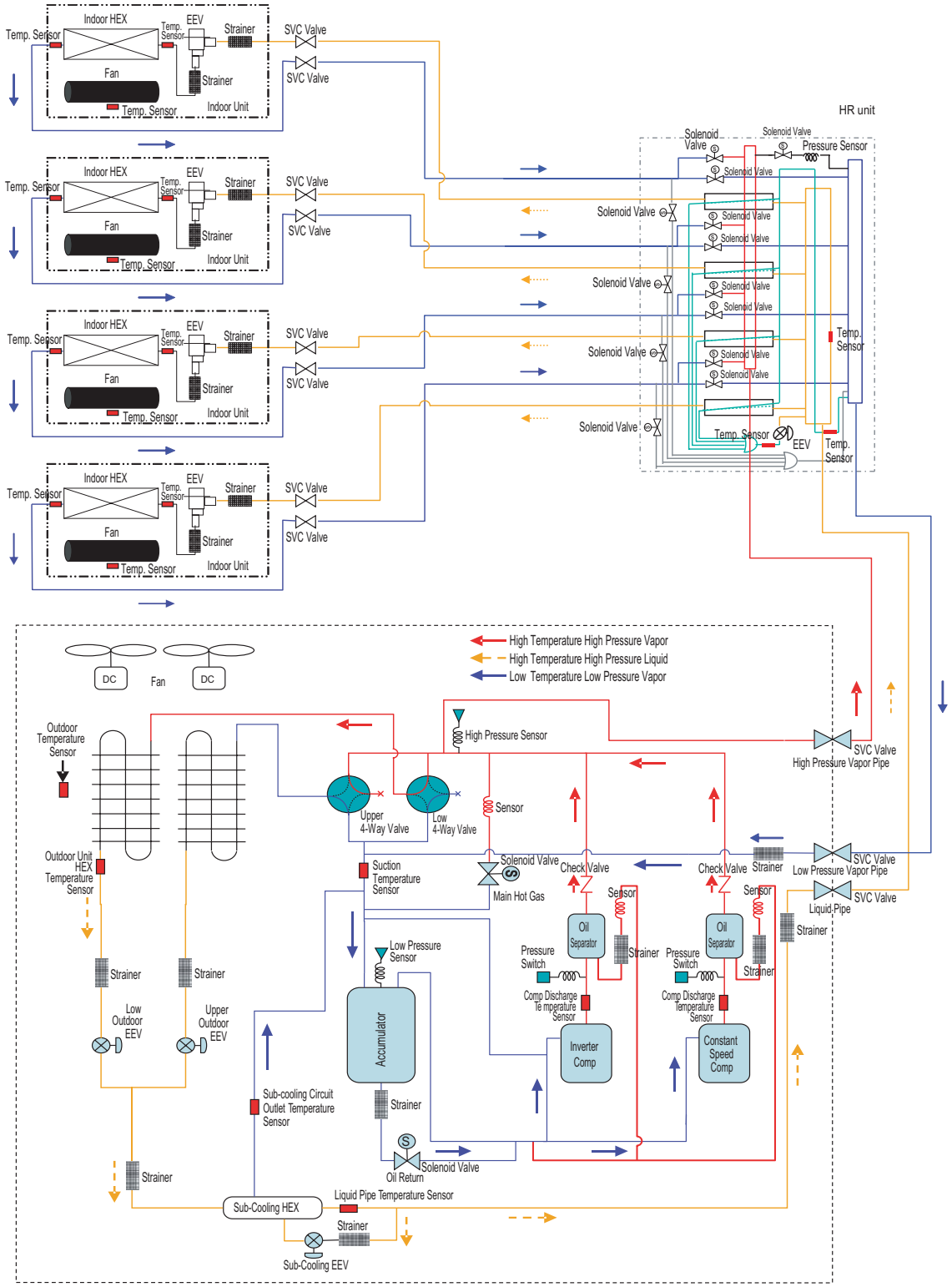
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REFRIGERANT FLOW DIAGRAMS

ARUB096BT3 / ARUB096DT3, ARUB121BT3 / ARUB121DT3, ARUB144BT3 / ARUB144DT3 Heat Recovery

Cooling at Low Ambient Temp.



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

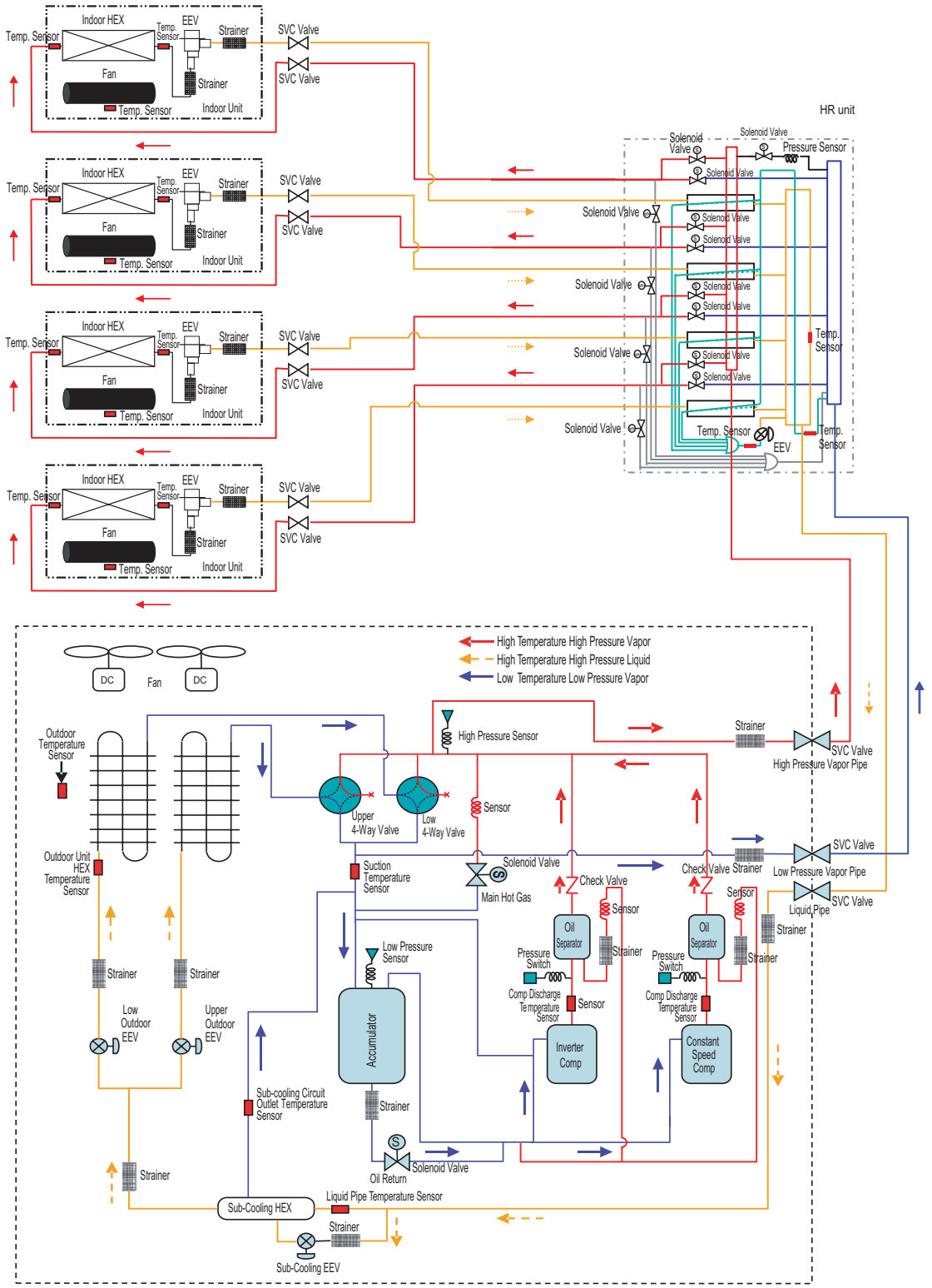
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REFRIGERANT FLOW DIAGRAMS

MULTI V III

Heating Mode

ARUB096BT3 / ARUB096DT3, ARUB121BT3 / ARUB121DT3, ARUB144BT3 / ARUB144DT3 Heat Recovery



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

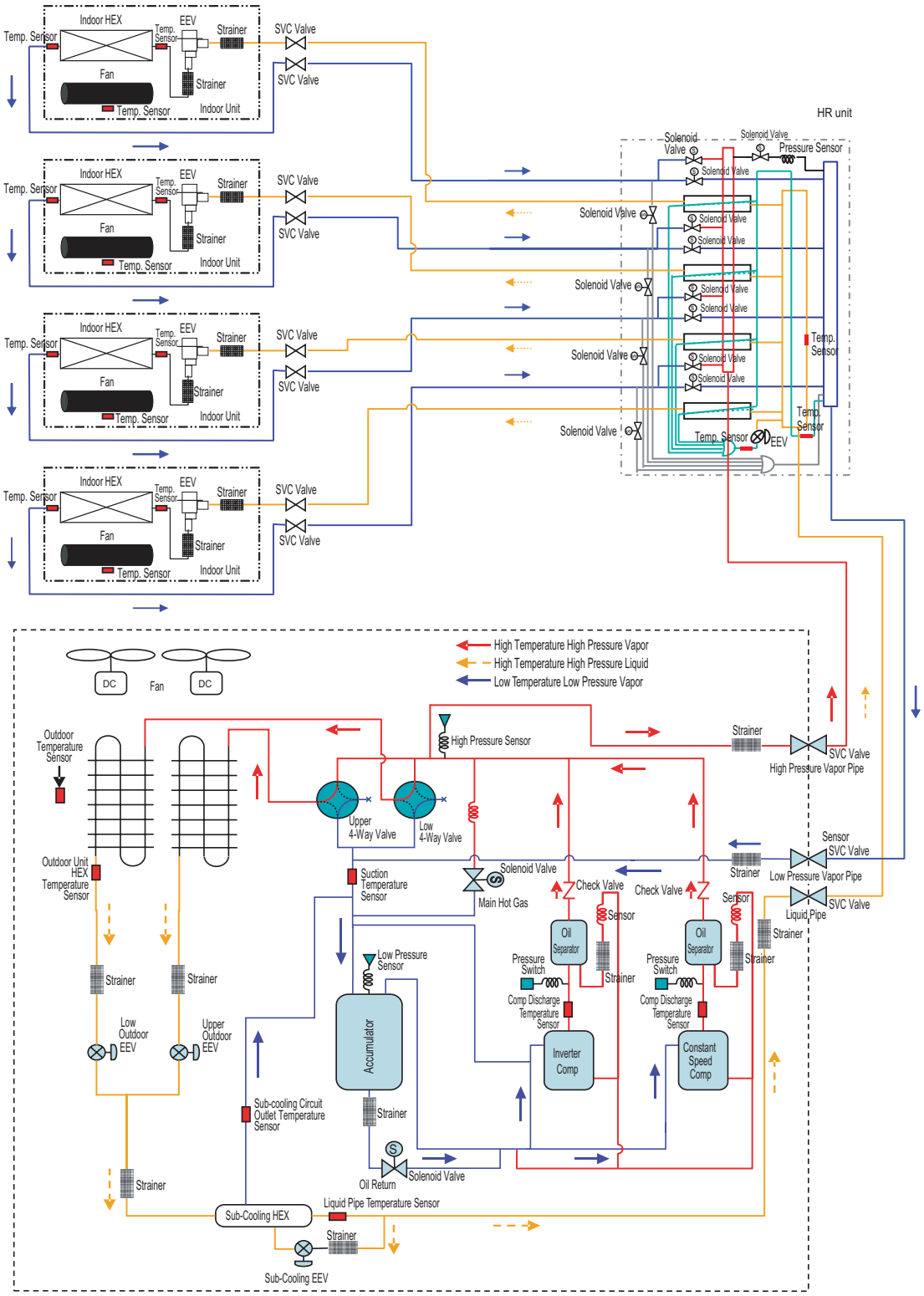
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REFRIGERANT FLOW DIAGRAMS

ARUB096BT3 / ARUB096DT3, ARUB121BT3 / ARUB121DT3, ARUB144BT3 / ARUB144DT3 Heat Recovery

Oil Return and Defrost Operation



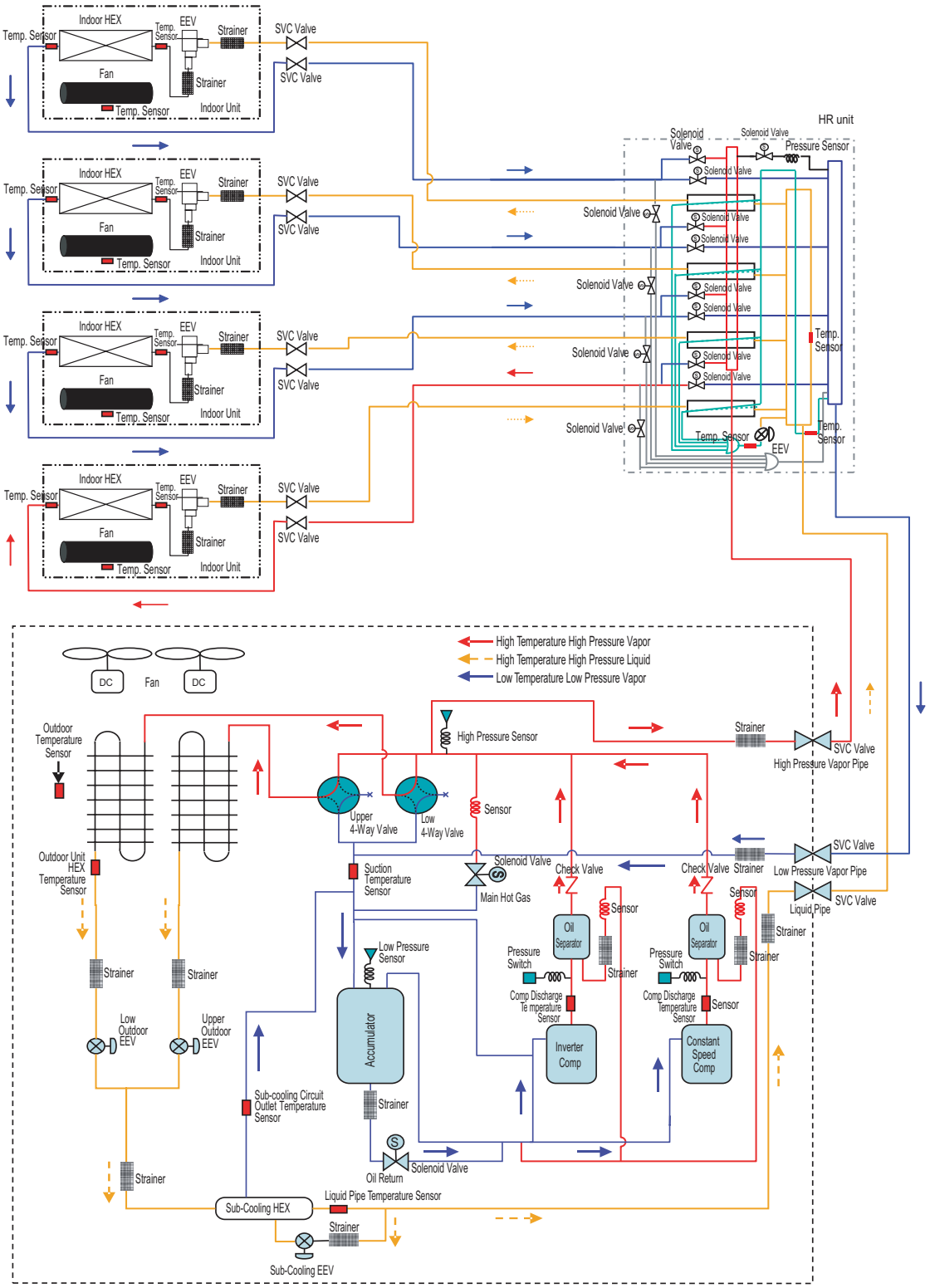
Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

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REFRIGERANT FLOW DIAGRAMS

MULTI V III

Cooling-based Simultaneous Operation ARUB096BT3 / ARUB096DT3, ARUB121BT3 / ARUB121DT3, ARUB144BT3 / ARUB144DT3 Heat Recovery



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

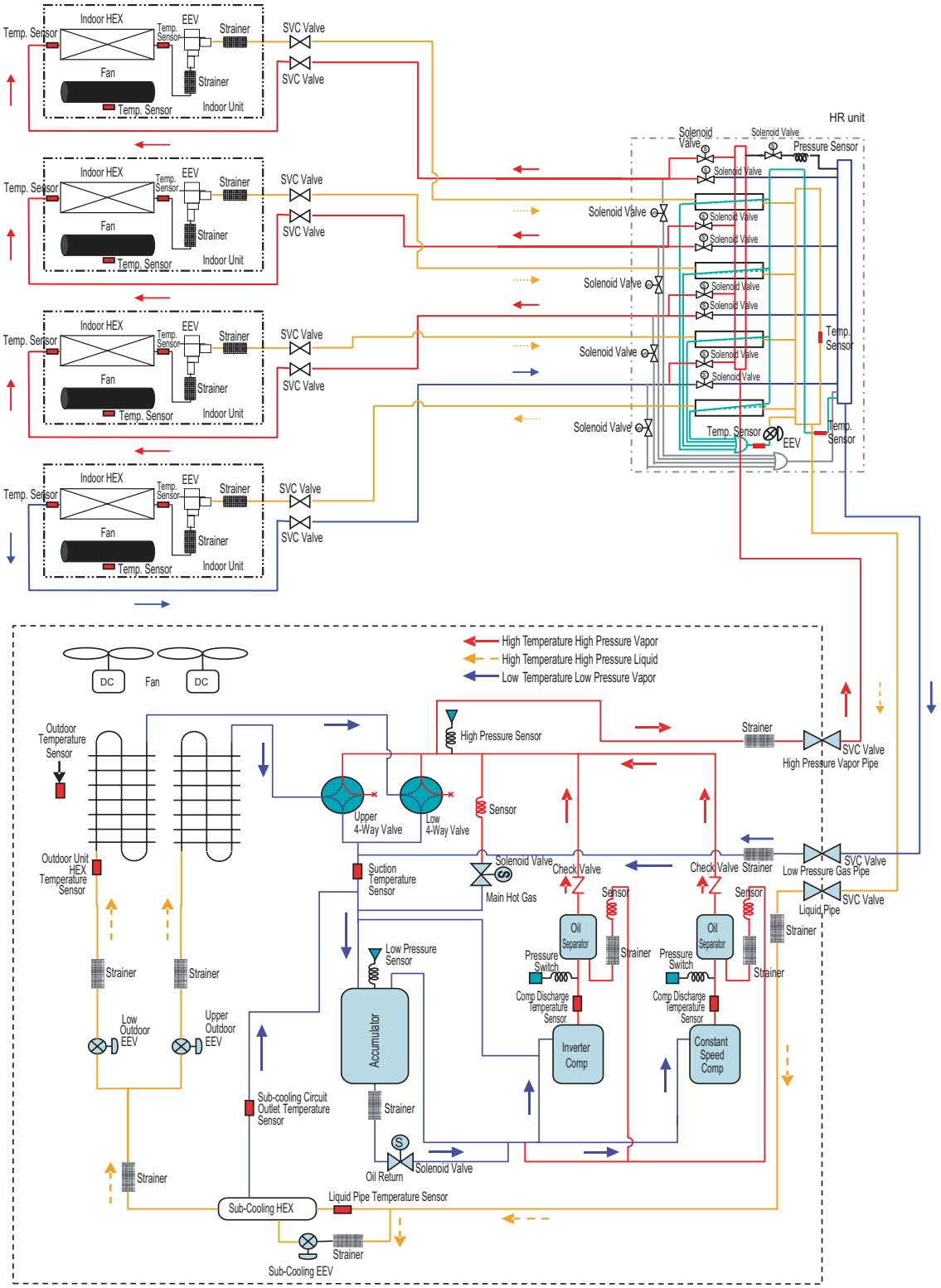
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REFRIGERANT FLOW DIAGRAMS

ARUB096BT3 / ARUB096DT3, ARUB121BT3 / ARUB121DT3, ARUB144BT3 / ARUB144DT3 Heat Recovery

Heating-based Simultaneous Operation



Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

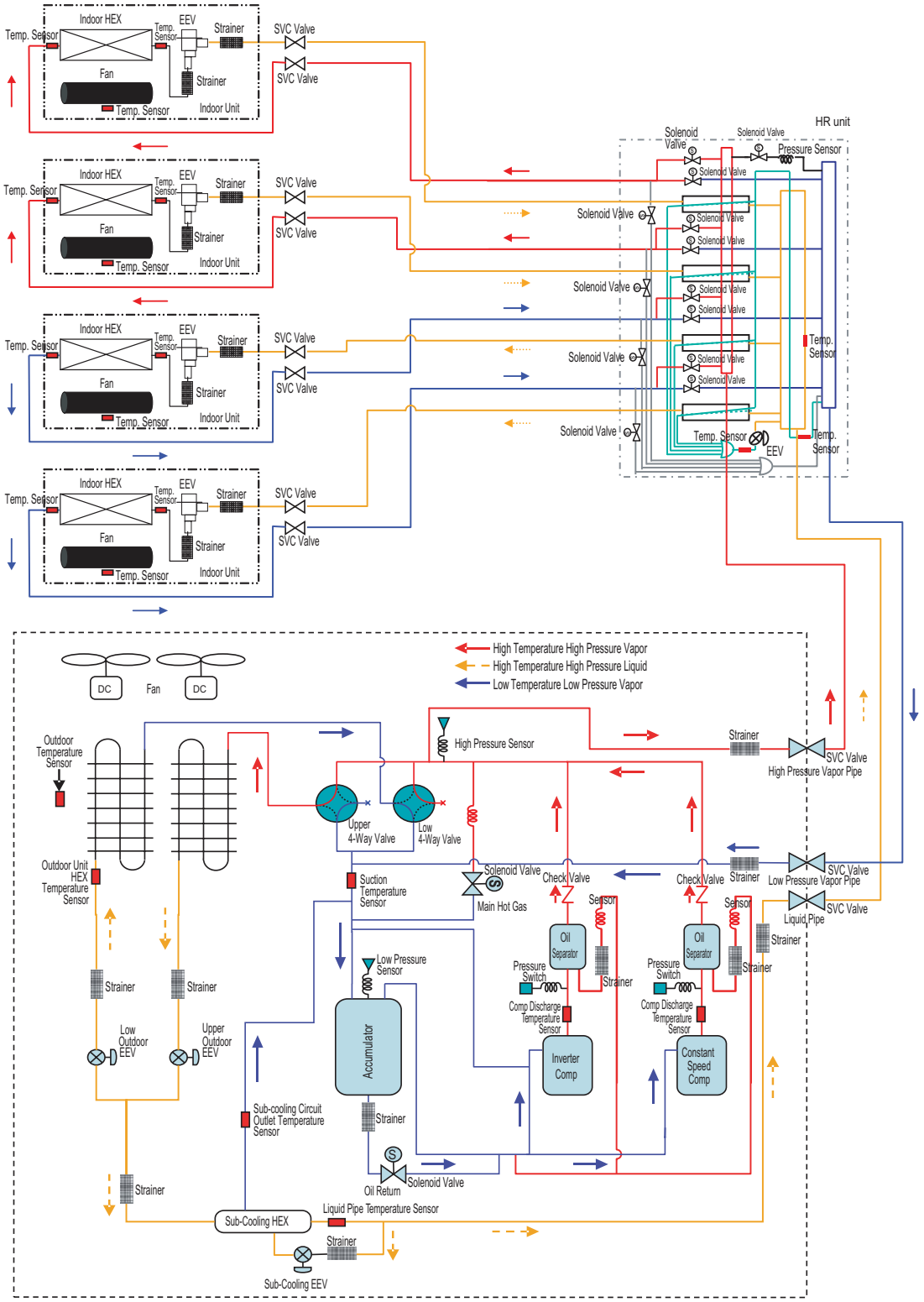
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REFRIGERANT FLOW DIAGRAMS

MULTI V III

Balanced Simultaneous Operation

ARUB096BT3 / ARUB096DT3, ARUB121BT3 / ARUB121DT3, ARUB144BT3 / ARUB144DT3 Heat Recovery



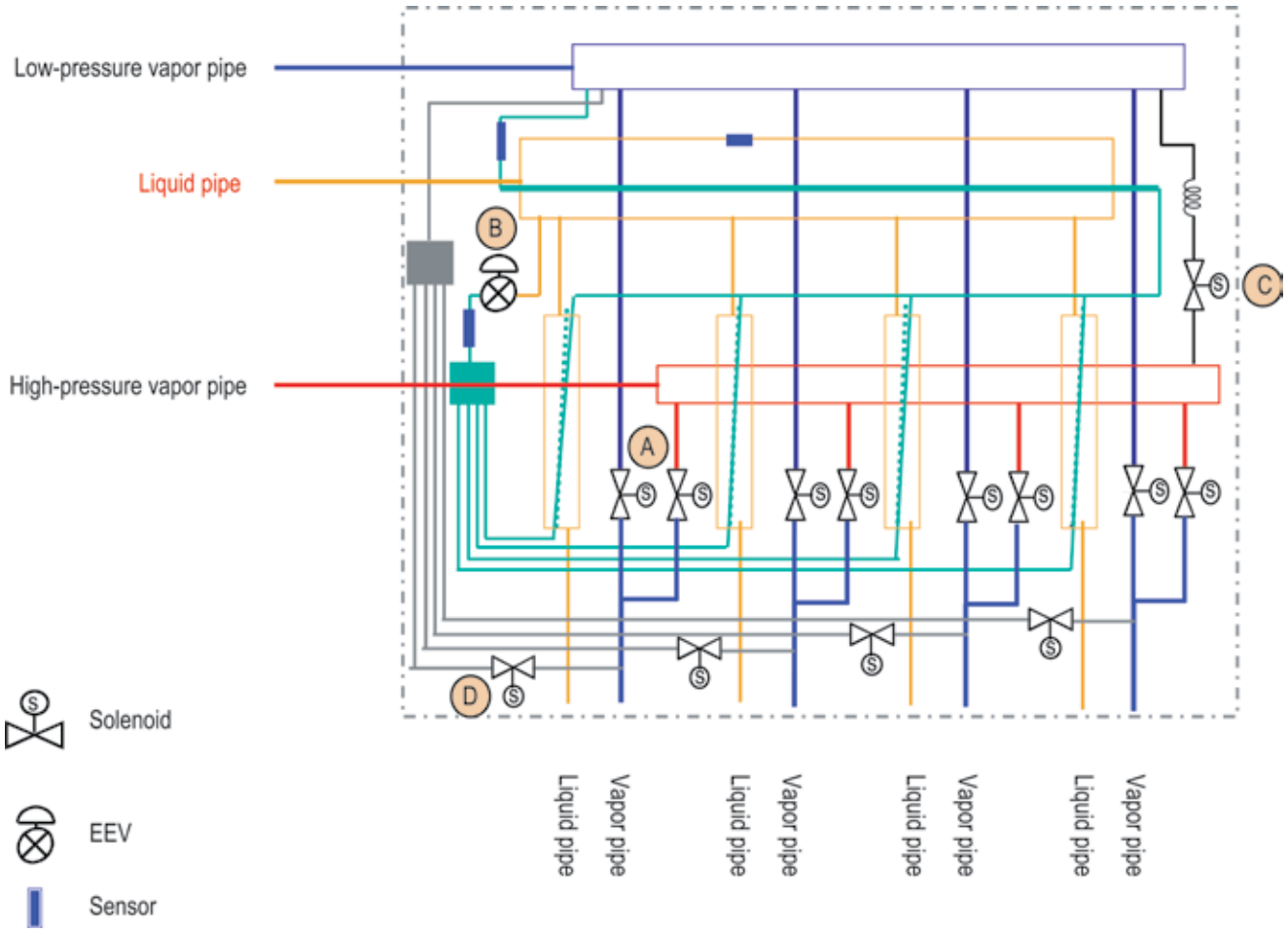
Remarks				
	Pressure Sensor	Temperature Sensor	Check valve	Solenoid valve
	Pressure Switch	SVC Valve	EEV	Strainer

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REFRIGERANT FLOW DIAGRAMS

PRHR021A, PRHR031A, PRHR041A Heat Recovery Units



A : Switch operation between cooling and heating.

B : Decreases noise following subcooling operation between inlet of one indoor unit and outlet of another indoor unit during simultaneous operation.

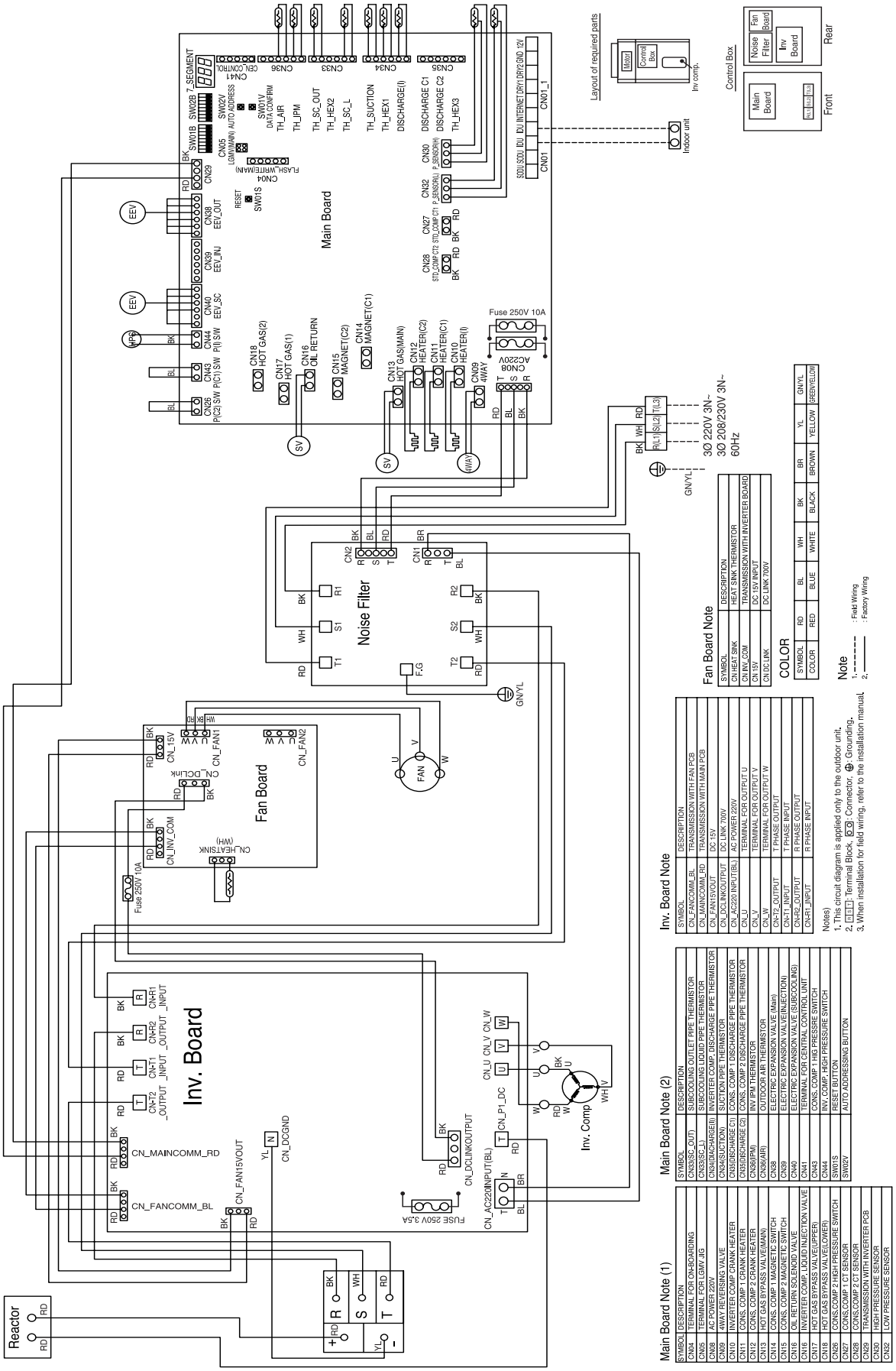
C : Prevents liquid from entering high-pressure vapor valve and heat recovery unit during cooling mode.

D : Controls pressure between the high and low pressure vapor pipes during simultaneous operation.

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WIRING DIAGRAMS

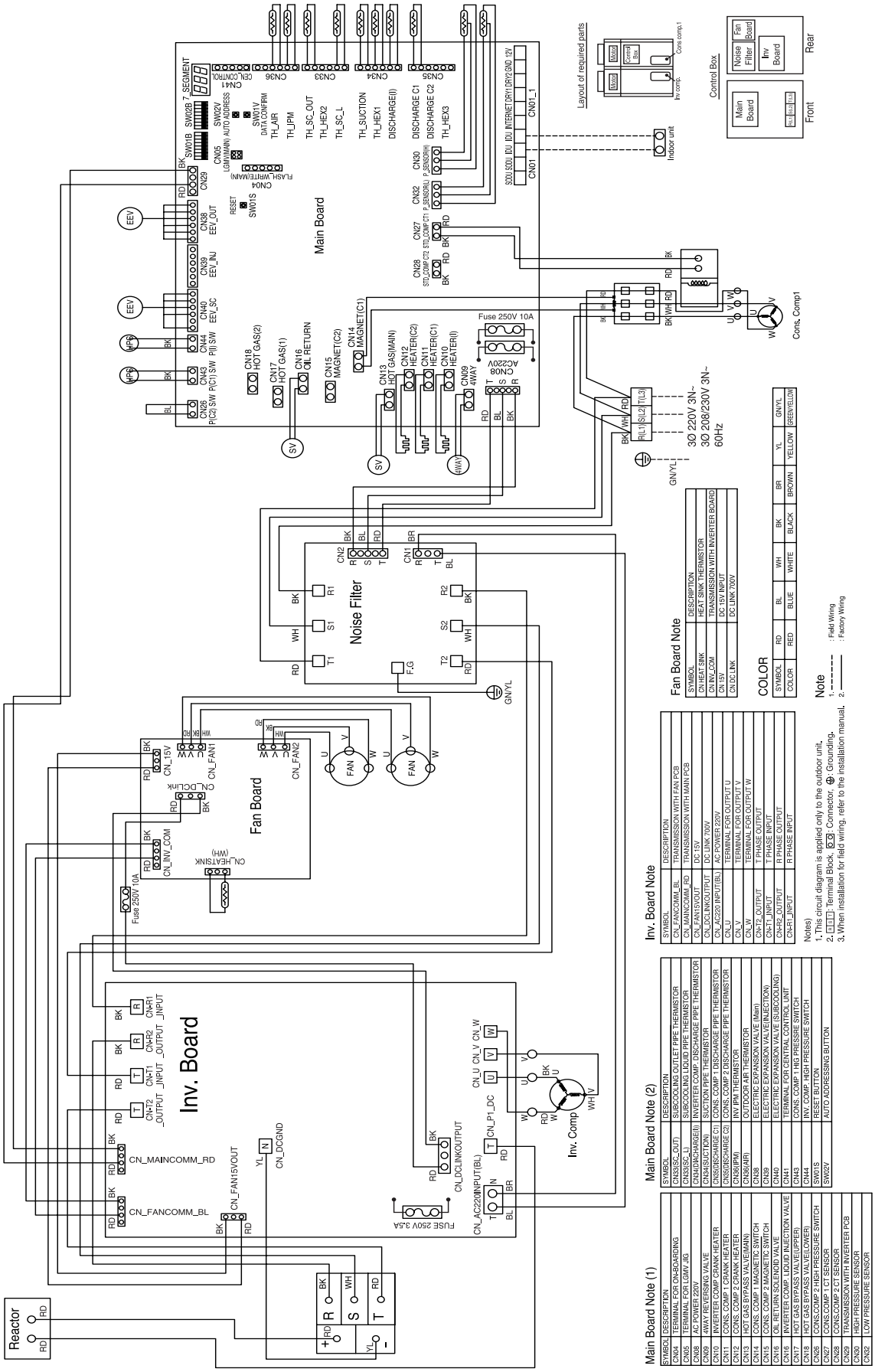
ARUN072BT3 208-230V Heat Pump



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WIRING DIAGRAMS

ARUN096BT3, ARUN121BT3, ARUN144BT3 208-230V Heat Pump



Main Board Note (1)

SYMBOL	DESCRIPTION
CN04	TERMINAL FOR ON-BOARDING
CN05	TERMINAL FOR LGMV JIG
CN08	AC POWER 220V
CN09	4WAY REVERSING VALVE
CN10	INVERTER COMP CRANK HEATER
CN11	CONS. COMP 1 CRANK HEATER
CN12	CONS. COMP 2 CRANK HEATER
CN13	HOT GAS BYPASS VALVE(MAIN)
CN14	HOT GAS BYPASS VALVE(SUB)
CN15	CONS. COMP 2 MAGNETIC SWITCH
CN16	OIL RETURN SOLENOID VALVE
CN17	INVERTER COMP. LIQUID INJECTION VALVE
CN18	HOT GAS BYPASS VALVE(UPPER)
CN26	CONS.COMP 2 HIGH PRESSURE SWITCH
CN27	CONS.COMP 1 CT SENSOR
CN28	CONS.COMP 2 CT SENSOR
CN29	TRANSMISSION WITH INVERTER PCB
CN30	HIGH PRESSURE SENSOR
CN32	LOW PRESSURE SENSOR

Main Board Note (2)

SYMBOL	DESCRIPTION
CN33(SC_OUT)	SUBCOOLING OUTLET PIPE THERMISTOR
CN33(SC_L)	SUBCOOLING LIQUID PIPE THERMISTOR
CN34(DISCHARGE(I))	INVERTER COMP. DISCHARGE PIPE THERMISTOR
CN34(SUCTION)	SUCTION PIPE THERMISTOR
CN35(DISCHARGE C1)	CONS. COMP 1 DISCHARGE PIPE THERMISTOR
CN35(DISCHARGE C2)	CONS. COMP 2 DISCHARGE PIPE THERMISTOR
CN36(IPM)	INV PCB THERMISTOR
CN36(AIR)	OUTDOOR AIR THERMISTOR
CN38	ELECTRIC EXPANSION VALVE(Main)
CN39	ELECTRIC EXPANSION VALVE(INJECTION)
CN40	ELECTRIC EXPANSION VALVE (SUBCOOLING)
CN41	TERMINAL FOR CENTRAL CONTROL UNIT
CN43	CONS. COMP 1 HIG PRESSRE SWITCH
CN44	INV. COMP. HIGH PRESSURE SWITCH
SW01S	RESET BUTTON
SW02V	AUTO ADDRESSING BUTTON

Inv. Board Note

SYMBOL	DESCRIPTION
CN_FANCOMM_BL	TRANSMISSION WITH FAN PCB
CN_MAINCOMM_RD	TRANSMISSION WITH MAIN PCB
CN_FAN15VOUT	DC 15V
CN_DCLINKOUTPUT	DC LINK 700V
CN_AC220 INPUT(BL)	AC POWER 220V
CN_U	TERMINAL FOR OUTPUT U
CN_V	TERMINAL FOR OUTPUT V
CN_W	TERMINAL FOR OUTPUT W
CN-T2_OUTPUT	T PHASE OUTPUT
CN-T1_INPUT	T PHASE INPUT
CN-R2_OUTPUT	R PHASE OUTPUT
CN-R1_INPUT	R PHASE INPUT

Fan Board Note

SYMBOL	DESCRIPTION
CN HEAT SINK	HEAT SINK THERMISTOR
CN INV_COM	TRANSMISSION WITH INVERTER BOARD
CN 15V	DC 15V INPUT
CN DC LINK	DC LINK 700V

COLOR

SYMBOL	RD	BL	WH	BK	BR	YL	GN/YL
COLOR	RED	BLUE	WHITE	BLACK	BROWN	YELLOW	GREEN/YELLOW

Note
1. ------ : Field Wiring
2. —— : Factory Wiring

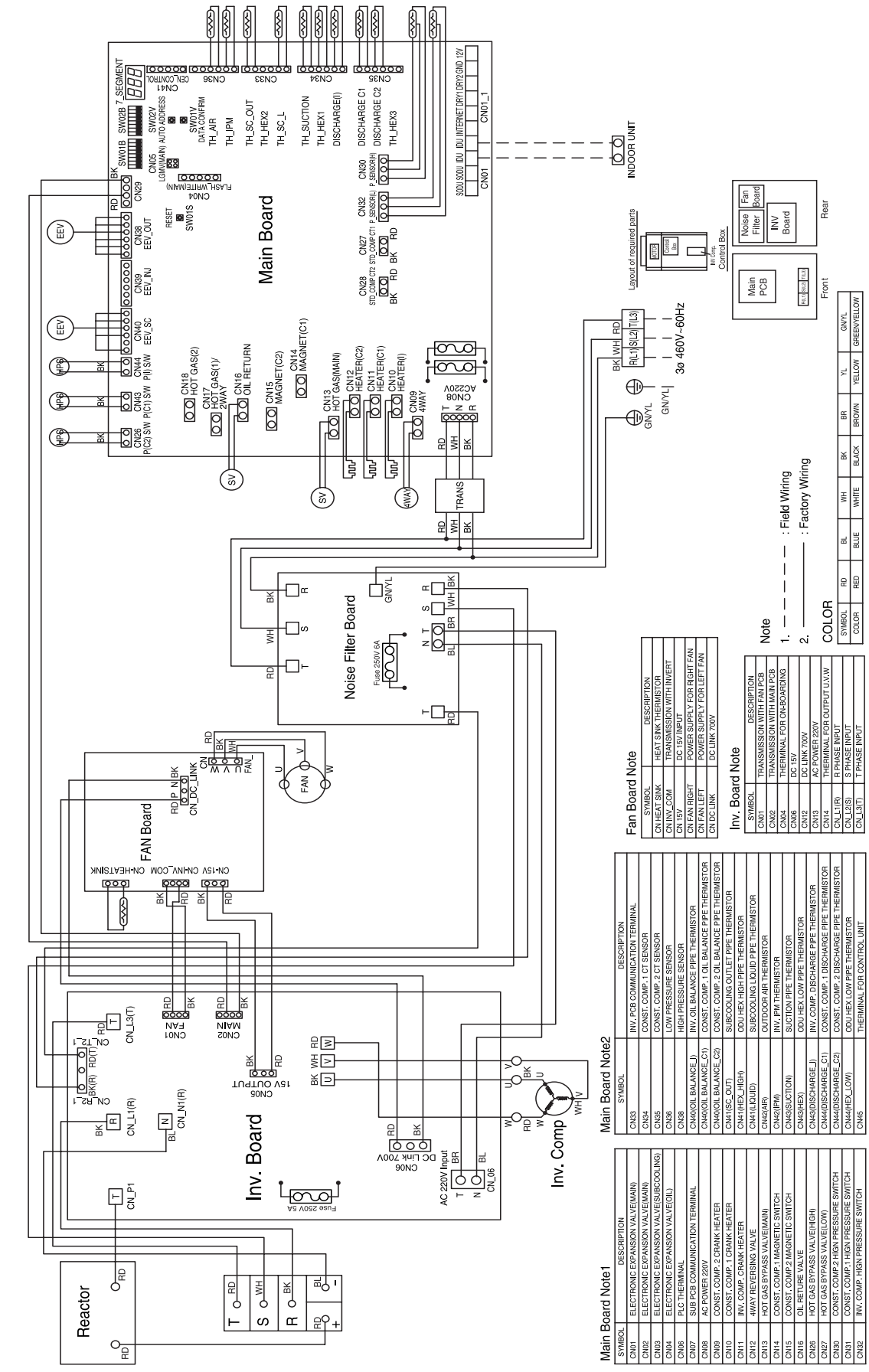
Notes)
1. This circuit diagram is applied only to the outdoor unit.
2. ⊟⊟⊟ : Terminal Block, ⊡ : Connector, ⏚ : Grounding.
3. When installation for field wiring, refer to the installation manual.

Product Data

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WIRING DIAGRAMS

ARUN072DT3 460V Heat Pump



Main Board Note1

SYMBOL	DESCRIPTION
CN01	ELECTRONIC EXPANSION VALVE(MAIN)
CN02	ELECTRONIC EXPANSION VALVE(MAIN)
CN03	ELECTRONIC EXPANSION VALVE(SUBCOOLING)
CN04	ELECTRONIC EXPANSION VALVE(OIL)
CN06	PLC THERMINAL
CN07	SUB PCB COMMUNICATION TERMINAL
CN08	AC POWER 230V
CN09	CONST. COMP. 2 CRANK HEATER
CN10	CONST. COMP. 1 CRANK HEATER
CN11	INV. COMP. CRANK HEATER
CN12	4WAY REVERSING VALVE
CN13	HOT GAS BYPASS VALVE(MAIN)
CN14	CONST. COMP. 1 MAGNETIC SWITCH
CN15	CONST. COMP. 2 MAGNETIC SWITCH
CN16	OIL RETURE VALVE
CN26	HOT GAS BYPASS VALVE(HIGH)
CN27	HOT GAS BYPASS VALVE(LOW)
CN30	CONST. COMP.2 HIGH PRESSURE SWITCH
CN31	CONST. COMP.1 HIGH PRESSURE SWITCH
CN32	INV. COMP. HIGH PRESSURE SWITCH

Main Board Note2

SYMBOL	DESCRIPTION
CN33	INV, PCB COMMUNICATION TERMINAL
CN34	CONST. COMP. 1 CT SENSOR
CN35	CONST. COMP. 2 CT SENSOR
CN36	LOW PRESSURE SENSOR
CN38	HIGH PRESSURE SENSOR
CN40(OIL BALANCE_I)	INV. OIL BALANCE PIPE THERMISTOR
CN40(OIL BALANCE_C1)	CONST. COMP. 1 OIL BALANCE PIPE THERMISTOR
CN40(OIL BALANCE_C2)	CONST. COMP. 2 OIL BALANCE PIPE THERMISTOR
CN41(SC_OUT)	SUBCOOLING OUTLET PIPE THERMISTOR
CN41(HEX_HIGH)	ODU HEX HIGH PIPE THERMISTOR
CN41(LIQUID)	SUBCOOLING LIQUID PIPE THERMISTOR
CN42(AIR)	OUTDOOR AIR THERMISTOR
CN42(IPM)	INV. IPM THERMISTOR
CN43(SUCTION)	SUCTION PIPE THERMISTOR
CN43(HEX)	ODU HEX LOW PIPE THERMISTOR
CN43(DISCHARGE_I)	INV. COMP. DISCHARGE PIPE THERMISTOR
CN44(DISCHARGE_C1)	CONST. COMP. 1 DISCHARGE PIPE THERMISTOR
CN44(DISCHARGE_C2)	CONST. COMP. 2 DISCHARGE PIPE THERMISTOR
CN44(HEX_LOW)	ODU HEX LOW PIPE THERMISTOR
CN45	THERMINAL FOR CONTROL UNIT

Fan Board Note

SYMBOL	DESCRIPTION
CN-HEAT SINK	HEAT SINK THERMISTOR
CN-INV_COM	TRANSMISSION WITH INVERT
CN-15V	DC 15V INPUT
CN-FAN RIGHT	POWER SUPPLY FOR RIGHT FAN
CN-FAN LEFT	POWER SUPPLY FOR LEFT FAN
CN-DC_LINK	DC LINK 700V

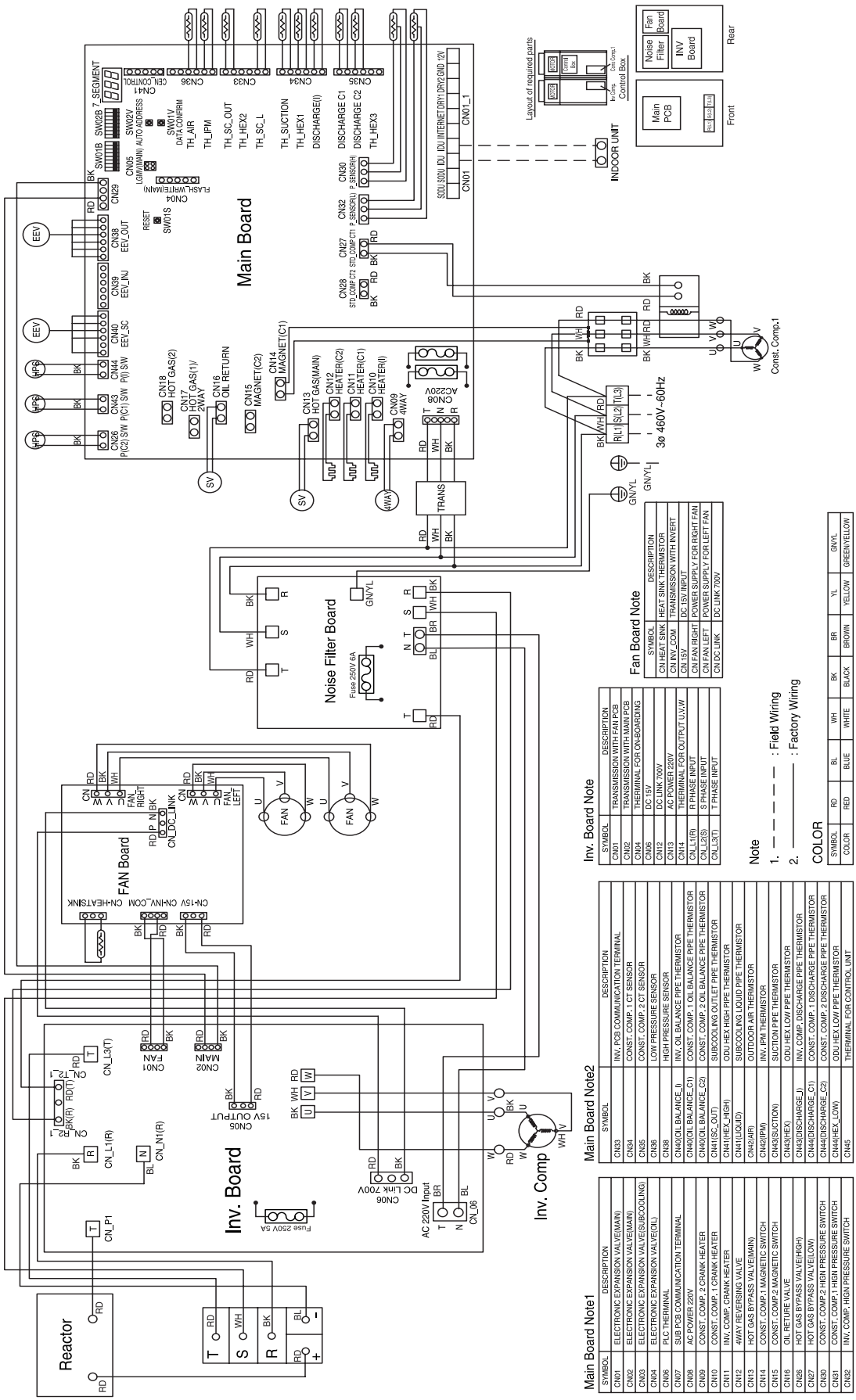
Inv. Board Note

SYMBOL	DESCRIPTION
CN01	TRANSMISSION WITH FAN PCB
CN02	TRANSMISSION WITH MAIN PCB
CN04	THERMINAL FOR ON-BOARDING
CN06	DC 15V
CN12	DC LINK 700V
CN13	AC POWER 220V
CN14	THERMINAL FOR OUTPUT U,V,W
CN_L1(R)	R PHASE INPUT
CN_L2(S)	S PHASE INPUT
CN_L3(T)	T PHASE INPUT

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WIRING DIAGRAMS

ARUN096DT3, ARUN121DT3, ARUN144DT3 460V Heat Pump



Fan Board Note

SYMBOL	DESCRIPTION
CN HEAT SINK	HEAT SINK THERMISTOR
CN INV_COM	TRANSMISSION WITH INVERT
CN 15V	DC 15V INPUT
CN FAN RIGHT	POWER SUPPLY FOR RIGHT FAN
CN FAN LEFT	POWER SUPPLY FOR LEFT FAN
CN DC LINK	DC LINK 700V

Inv. Board Note

SYMBOL	DESCRIPTION
CN01	TRANSMISSION WITH FAN PCB
CN02	TRANSMISSION WITH MAIN PCB
CN04	THERMINAL FOR ON-BOARDING
CN06	DC 15V
CN12	DC LINK 700V
CN13	AC POWER 220V
CN14	THERMINAL FOR OUTPUT U,V,W
CN_L1(R)	R PHASE INPUT
CN_L2(S)	S PHASE INPUT
CN_L3(T)	T PHASE INPUT

Main Board Note1

SYMBOL	DESCRIPTION
CN01	ELECTRONIC EXPANSION VALVE(MAIN)
CN02	ELECTRONIC EXPANSION VALVE(MAIN)
CN03	ELECTRONIC EXPANSION VALVE(SUBCOOLING)
CN04	ELECTRONIC EXPANSION VALVE(OIL)
CN06	PLC THERMINAL
CN07	SUB PCB COMMUNICATION TERMINAL
CN08	AC POWER 220V
CN09	CONST. COMP. 2 CRANK HEATER
CN10	CONST. COMP. 1 CRANK HEATER
CN11	INV. COMP. CRANK HEATER
CN12	4WAY REVERSING VALVE
CN13	HOT GAS BYPASS VALVE(MAIN)
CN14	CONST. COMP.1 MAGNETIC SWITCH
CN15	CONST. COMP.2 MAGNETIC SWITCH
CN16	OIL RETURE VALVE
CN26	HOT GAS BYPASS VALVE(HIGH)
CN27	HOT GAS BYPASS VALVE(LOW)
CN30	CONST. COMP.2 HIGN PRESSURE SWITCH
CN31	CONST. COMP.1 HIGN PRESSURE SWITCH
CN32	INV. COMP. HIGN PRESSURE SWITCH

Main Board Note2

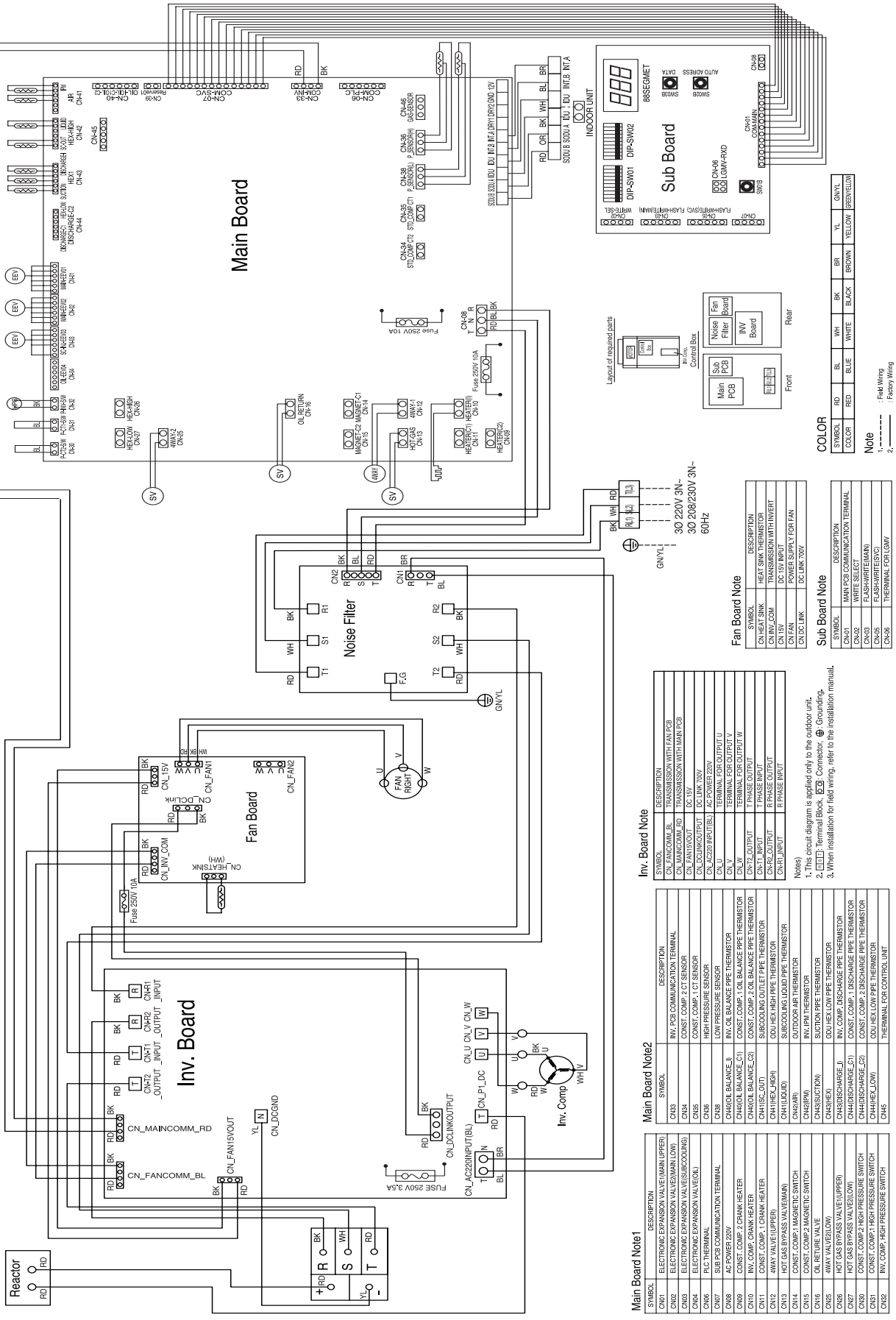
SYMBOL	DESCRIPTION
CN33	INV. PCB COMMUNICATION TERMINAL
CN34	CONST. COMP. 1 CT SENSOR
CN35	CONST. COMP. 2 CT SENSOR
CN36	LOW PRESSURE SENSOR
CN38	HIGH PRESSURE SENSOR
CN40(OIL BALANCE_I)	INV. OIL BALANCE PIPE THERMISTOR
CN40(OIL BALANCE_C1)	CONST. COMP. 1 OIL BALANCE PIPE THERMISTOR
CN40(OIL BALANCE_C2)	CONST. COMP. 2 OIL BALANCE PIPE THERMISTOR
CN41(SC_OUT)	SUBCOOLING OUTLET PIPE THERMISTOR
CN41(HEX_HIGH)	ODU HEX HIGH PIPE THERMISTOR
CN41(LIQUID)	SUBCOOLING LIQUID PIPE THERMISTOR
CN42(AIR)	OUTDOOR AIR THERMISTOR
CN42(IPM)	INV. IPM THERMISTOR
CN43(SUCTION)	SUCTION PIPE THERMISTOR
CN43(HEX)	ODU HEX LOW PIPE THERMISTOR
CN43(DISCHARGE_I)	INV. COMP. DISCHARGE PIPE THERMISTOR
CN44(DISCHARGE_C1)	CONST. COMP. 1 DISCHARGE PIPE THERMISTOR
CN44(DISCHARGE_C2)	CONST. COMP. 2 DISCHARGE PIPE THERMISTOR
CN44(HEX_LOW)	ODU HEX LOW PIPE THERMISTOR
CN45	THERMINAL FOR CONTROL UNIT

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WIRING DIAGRAMS

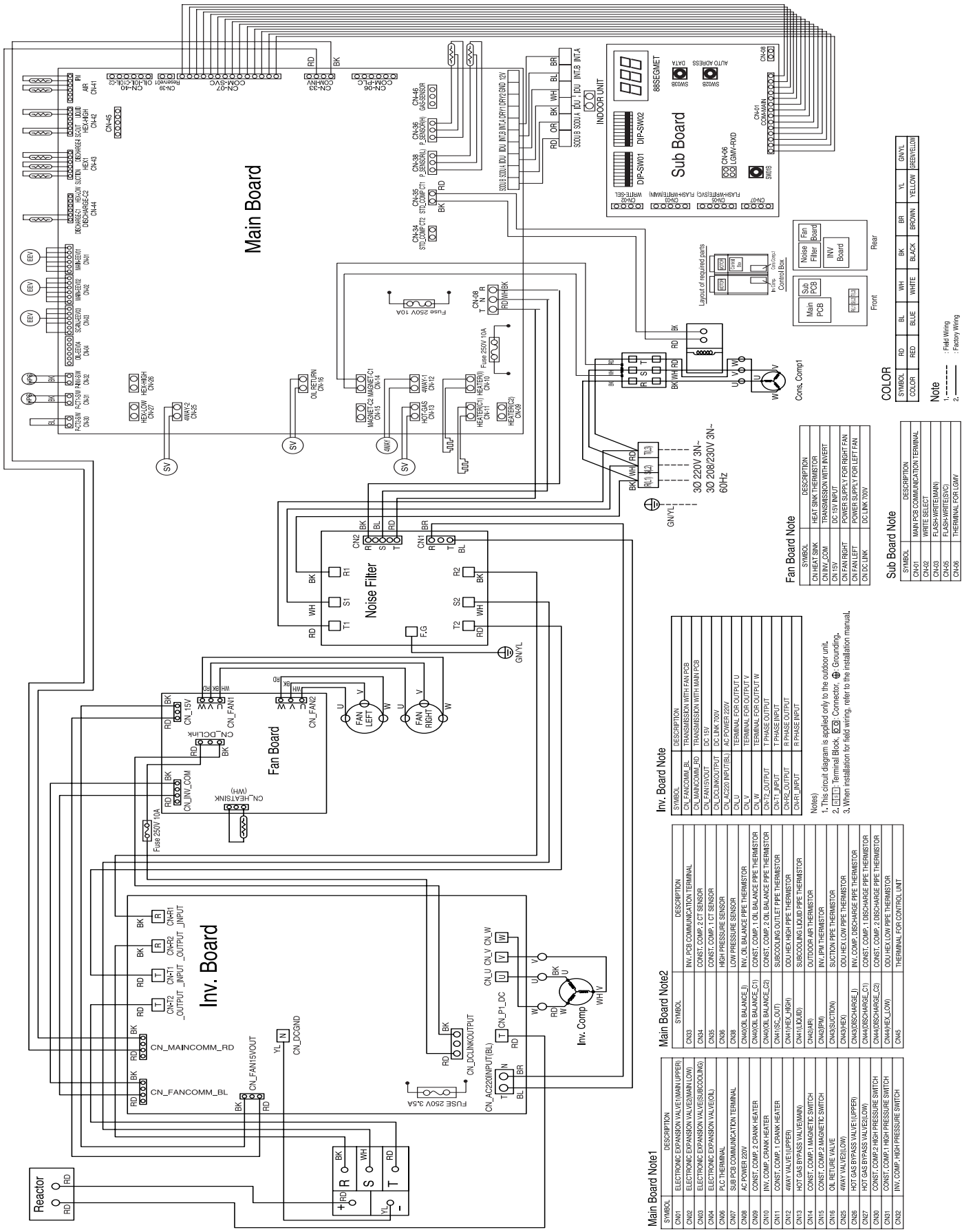
ARUB072BT3 208-230V Heat Recovery



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WIRING DIAGRAMS

ARUB096BT3, ARUB121BT3, ARUB144BT3 208-230V Heat Recovery



Fan Board Note

SYMBOL	DESCRIPTION
CN-HEAT SINK	HEAT SINK THERMISTOR
CN-INV_COM	TRANSMISSION WITH INVERT
CN-15V	DC 15V INPUT
CN-FAN RIGHT	POWER SUPPLY FOR RIGHT FAN
CN-FAN LEFT	POWER SUPPLY FOR LEFT FAN
CN-DC LINK	DC LINK 700V

Sub Board Note

SYMBOL	DESCRIPTION
CN-01	MAIN PCB COMMUNICATION TERMINAL
CN-02	WRITE SELECT
CN-03	FLASH-WRITE(MAIN)
CN-05	FLASH-WRITE(SVC)
CN-06	THERMINAL FOR LGMV

Inv. Board Note

SYMBOL	DESCRIPTION
CN_FANCOMM_BL	TRANSMISSION WITH FAN PCB
CN_MAINCOMM_RD	TRANSMISSION WITH MAIN PCB
CN_FAN15VOUT	DC 15V
CN_DCLINKOUTPUT	DC LINK 700V
CN_AC220 INPUT(BL)	AC POWER 220V
CN_U	TERMINAL FOR OUTPUT U
CN_V	TERMINAL FOR OUTPUT V
CN_W	TERMINAL FOR OUTPUT W
CN-T2_OUTPUT	T PHASE OUTPUT
CN-T1_INPUT	T PHASE INPUT
CN-R2_OUTPUT	R PHASE OUTPUT
CN-R1_INPUT	R PHASE INPUT

Notes)
1. This circuit diagram is applied only to the outdoor unit.
2. [ ] [ ] Terminal Block, [ ] Connector, ⏚ Grounding.
3. When installation for field wiring, refer to the installation manual.

Main Board Note2

SYMBOL	DESCRIPTION
CN33	INV. PCB COMMUNICATION TERMINAL
CN34	CONST. COMP. 2 CT SENSOR
CN35	CONST. COMP. 1 CT SENSOR
CN36	HIGH PRESSURE SENSOR
CN38	LOW PRESSURE SENSOR
CN40(OIL BALANCE_J)	INV. OIL BALANCE PIPE THERMISTOR
CN40(OIL BALANCE_C1)	CONST. COMP. 1 OIL BALANCE PIPE THERMISTOR
CN40(OIL BALANCE_C2)	CONST. COMP. 2 OIL BALANCE PIPE THERMISTOR
CN41(SC_OUT)	SUBCOOLING OUTLET PIPE THERMISTOR
CN41(HEX_HIGH)	ODU HEX HIGH PIPE THERMISTOR
CN41(LIQUID)	SUBCOOLING LIQUID PIPE THERMISTOR
CN42(AIR)	OUTDOOR AIR THERMISTOR
CN42(IPM)	INV. IPM THERMISTOR
CN43(SUCTION)	SUCTION PIPE THERMISTOR
CN43(HEX)	ODU HEX LOW PIPE THERMISTOR
CN43(DISCHARGE_J)	INV. COMP. DISCHARGE PIPE THERMISTOR
CN44(DISCHARGE_C1)	CONST. COMP. 1 DISCHARGE PIPE THERMISTOR
CN44(DISCHARGE_C2)	CONST. COMP. 2 DISCHARGE PIPE THERMISTOR
CN44(HEX_LOW)	ODU HEX LOW PIPE THERMISTOR
CN45	THERMINAL FOR CONTROL UNIT

Main Board Note1

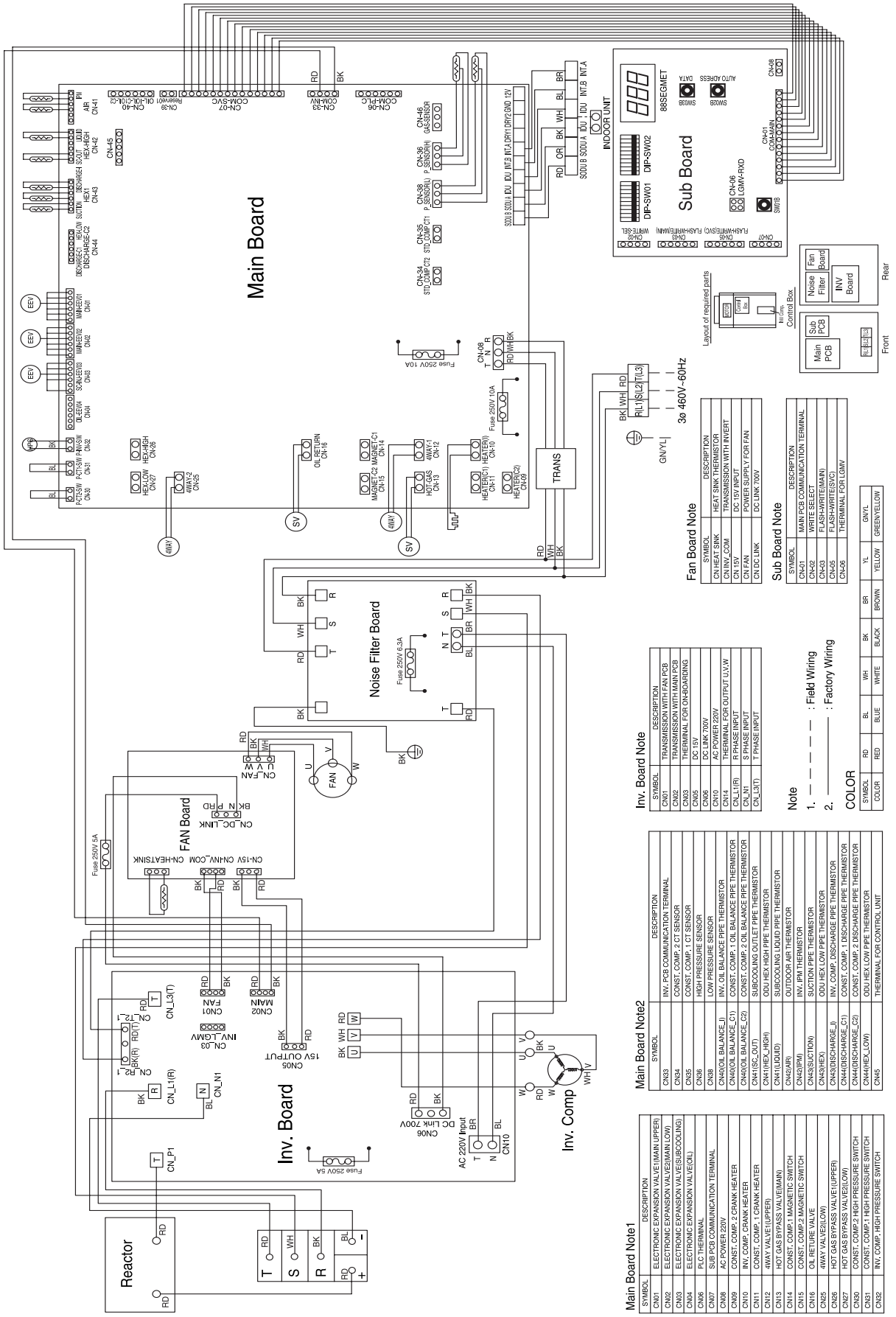
SYMBOL	DESCRIPTION
CN01	ELECTRONIC EXPANSION VALVE1(MAIN UPPER)
CN02	ELECTRONIC EXPANSION VALVE2(MAIN LOW)
CN03	ELECTRONIC EXPANSION VALVE(SUBCOOLING)
CN04	ELECTRONIC EXPANSION VALVE(OIL)
CN06	PLC THERMINAL
CN07	SUB PCB COMMUNICATION TERMINAL
CN08	AC POWER 220V
CN09	CONST. COMP. 2 CRANK HEATER
CN10	INV. COMP. CRANK HEATER
CN11	CONST. COMP. 1 CRANK HEATER
CN12	4WAY VALVE1 (UPPER)
CN13	HOT GAS BYPASS VALVE(MAIN)
CN14	CONST. COMP. 1 MAGNETIC SWITCH
CN15	CONST. COMP.2 MAGNETIC SWITCH
CN16	OIL RETURE VALVE
CN25	4WAY VALVE2(LOW)
CN26	HOT GAS BYPASS VALVE1(UPPER)
CN27	HOT GAS BYPASS VALVE2(LOW)
CN30	CONST. COMP.2 HIGH PRESSURE SWITCH
CN31	CONST. COMP.1 HIGH PRESSURE SWITCH
CN32	INV. COMP. HIGH PRESSURE SWITCH

Product Data

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WIRING DIAGRAMS

ARUB072DT3 460V Heat Recovery



Fan Board Note

SYMBOL	DESCRIPTION
CN HEAT SINK	HEAT SINK THERMISTOR
CN INV_COM	TRANSMISSION WITH INVERT
CN 15V	DC 15V INPUT
CN FAN	POWER SUPPLY FOR FAN
CN DC LINK	DC LINK 700V

Sub Board Note

SYMBOL	DESCRIPTION
CN-01	MAIN PCB COMMUNICATION TERMINAL
CN-02	WRITE-SELECT
CN-03	FLASH-WRITE(MAIN)
CN-05	FLASH-WRITE(SVC)
CN-06	THERMINAL FOR LGMV

Inv. Board Note

SYMBOL	DESCRIPTION
CN01	TRANSMISSION WITH FAN PCB
CN02	TRANSMISSION WITH MAIN PCB
CN03	THERMINAL FOR ON-BOARDING
CN05	DC 15V
CN06	DC LINK 700V
CN10	AC POWER 220V
CN14	THERMINAL FOR OUTPUT U,V,W
CN_L1(1R)	R PHASE INPUT
CN_N1	S PHASE INPUT
CN_L3(1T)	T PHASE INPUT

Main Board Note2

SYMBOL	DESCRIPTION
CN33	INV. PCB COMMUNICATION TERMINAL
CN34	CONST. COMP. 2 CT SENSOR
CN35	CONST. COMP. 1 CT SENSOR
CN36	HIGH PRESSURE SENSOR
CN38	LOW PRESSURE SENSOR
CN40(OIL BALANCE_I)	INV. OIL BALANCE PIPE THERMISTOR
CN40(OIL BALANCE_C1)	CONST. COMP. 1 OIL BALANCE PIPE THERMISTOR
CN40(OIL BALANCE_C2)	CONST. COMP. 2 OIL BALANCE PIPE THERMISTOR
CN41(SC_OUT)	SUBCOOLING OUTLET PIPE THERMISTOR
CN41(HEX_HIGH)	ODU HEX HIGH PIPE THERMISTOR
CN41(LIQUID)	SUBCOOLING LIQUID PIPE THERMISTOR
CN42(AIR)	OUTDOOR AIR THERMISTOR
CN42(PM)	INV. IPM THERMISTOR
CN43(SUCTION)	SUCTION PIPE THERMISTOR
CN43(HEX)	ODU HEX LOW PIPE THERMISTOR
CN43(DISCHARGE_I)	INV. COMP. DISCHARGE PIPE THERMISTOR
CN44(DISCHARGE_C1)	CONST. COMP. 1 DISCHARGE PIPE THERMISTOR
CN44(DISCHARGE_C2)	CONST. COMP. 2 DISCHARGE PIPE THERMISTOR
CN44(HEX_LOW)	ODU HEX LOW PIPE THERMISTOR
CN45	THERMINAL FOR CONTROL UNIT

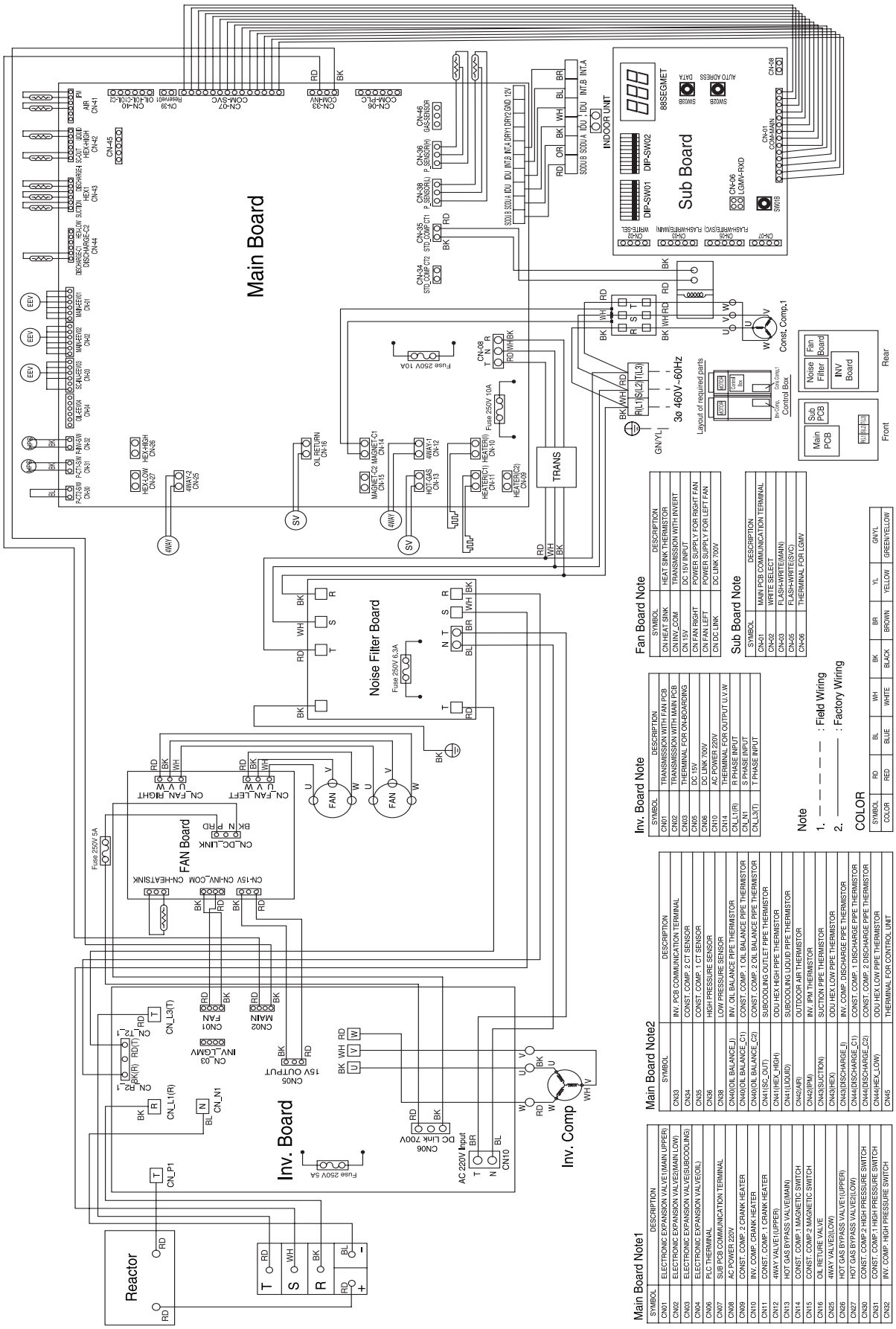
Main Board Note1

SYMBOL	DESCRIPTION
CN01	ELECTRONIC EXPANSION VALVE1(MAIN UPPER)
CN02	ELECTRONIC EXPANSION VALVE2(MAIN LOW)
CN03	ELECTRONIC EXPANSION VALVE(SUBCOOLING)
CN04	ELECTRONIC EXPANSION VALVE(OIL)
CN06	PLC THERMINAL
CN07	SUB PCB COMMUNICATION TERMINAL
CN08	AC POWER 220V
CN09	CONST. COMP. 2 CRANK HEATER
CN10	INV. COMP. CRANK HEATER
CN11	CONST. COMP. 1 CRANK HEATER
CN12	4WAY VALVE1(UPPER)
CN13	HOT GAS BYPASS VALVE(MAIN)
CN14	CONST. COMP. 1 MAGNETIC SWITCH
CN15	CONST. COMP. 2 MAGNETIC SWITCH
CN16	OIL RETURE VALVE
CN25	4WAY VALVE2(LOW)
CN26	HOT GAS BYPASS VALVE1(UPPER)
CN27	HOT GAS BYPASS VALVE2(LOW)
CN30	CONST. COMP.2 HIGH PRESSURE SWITCH
CN31	CONST. COMP.1 HIGH PRESSURE SWITCH
CN32	INV. COMP. HIGH PRESSURE SWITCH

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WIRING DIAGRAMS

ARUB096DT3, ARUB121DT3, ARUB144DT3 460V Heat Recovery



Main Board Note1

SYMBOL	DESCRIPTION
CN01	ELECTRONIC EXPANSION VALVE1(MAIN UPPER)
CN02	ELECTRONIC EXPANSION VALVE2(MAIN LOW)
CN03	ELECTRONIC EXPANSION VALVE(SUBCOOLING)
CN04	ELECTRONIC EXPANSION VALVE(OIL)
CN06	PLG THERMINAL
CN07	SUB PCB COMMUNICATION TERMINAL
CN08	AC POWER 220V
CN09	CONST. COMP. 2 CRANK HEATER
CN10	INV. COMP. CRANK HEATER
CN11	CONST. COMP. 1 CRANK HEATER
CN12	4WAY VALVE1(UPPER)
CN13	HOT GAS BYPASS VALVE(MAIN)
CN14	CONST. COMP.1 MAGNETIC SWITCH
CN15	CONST. COMP.2 MAGNETIC SWITCH
CN16	OIL RETURE VALVE
CN25	4WAY VALVE2(LOW)
CN26	HOT GAS BYPASS VALVE1(UPPER)
CN27	HOT GAS BYPASS VALVE2(LOW)
CN30	CONST. COMP.2 HIGH PRESSURE SWITCH
CN31	CONST. COMP.1 HIGH PRESSURE SWITCH
CN32	INV. COMP. HIGH PRESSURE SWITCH

Main Board Note2

SYMBOL	DESCRIPTION
CN33	INV. PCB COMMUNICATION TERMINAL
CN34	CONST. COMP. 2 CT SENSOR
CN35	CONST. COMP. 1 CT SENSOR
CN36	HIGH PRESSURE SENSOR
CN38	LOW PRESSURE SENSOR
CN40(OIL BALANCE_J)	INV. OIL BALANCE PIPE THERMISTOR
CN40(OIL BALANCE_C1)	CONST. COMP. 1 OIL BALANCE PIPE THERMISTOR
CN40(OIL BALANCE_C2)	CONST. COMP. 2 OIL BALANCE PIPE THERMISTOR
CN41(SC_OUT)	SUBCOOLING OUTLET PIPE THERMISTOR
CN41(HEX_HIGH)	ODU HEX HIGH PIPE THERMISTOR
CN41(LIQUID)	SUBCOOLING LIQUID PIPE THERMISTOR
CN42(AIR)	OUTDOOR AIR THERMISTOR
CN42(PIM)	INV. PIM THERMISTOR
CN43(SUCTION)	SUCTION PIPE THERMISTOR
CN43(HEX)	ODU HEX LOW PIPE THERMISTOR
CN43(DISCHARGE_J)	INV. COMP. DISCHARGE PIPE THERMISTOR
CN44(DISCHARGE_C1)	CONST. COMP. 1 DISCHARGE PIPE THERMISTOR
CN44(DISCHARGE_C2)	CONST. COMP. 2 DISCHARGE PIPE THERMISTOR
CN44(HEX_LOW)	ODU HEX LOW PIPE THERMISTOR
CN45	THERMINAL FOR CONTROL UNIT

Inv. Board Note

SYMBOL	DESCRIPTION
CN01	TRANSMISSION WITH FAN PCB
CN02	TRANSMISSION WITH MAIN PCB
CN03	THERMINAL FOR CN-BOARDING
CN05	DC 15V
CN06	DC LINK 700V
CN10	AC POWER 220V
CN14	THERMINAL FOR OUTPUT U,V,W
CN_L1(R)	R PHASE INPUT
CN_N1	S PHASE INPUT
CN_L3(T)	T PHASE INPUT

Fan Board Note

SYMBOL	DESCRIPTION
CN HEAT SINK	HEAT SINK THERMISTOR
CN INV_COM	TRANSMISSION WITH INVERT
CN 15V	DC 15V INPUT
CN FAN RIGHT	POWER SUPPLY FOR RIGHT FAN
CN FAN LEFT	POWER SUPPLY FOR LEFT FAN
CN DC LINK	DC LINK 700V

Sub Board Note

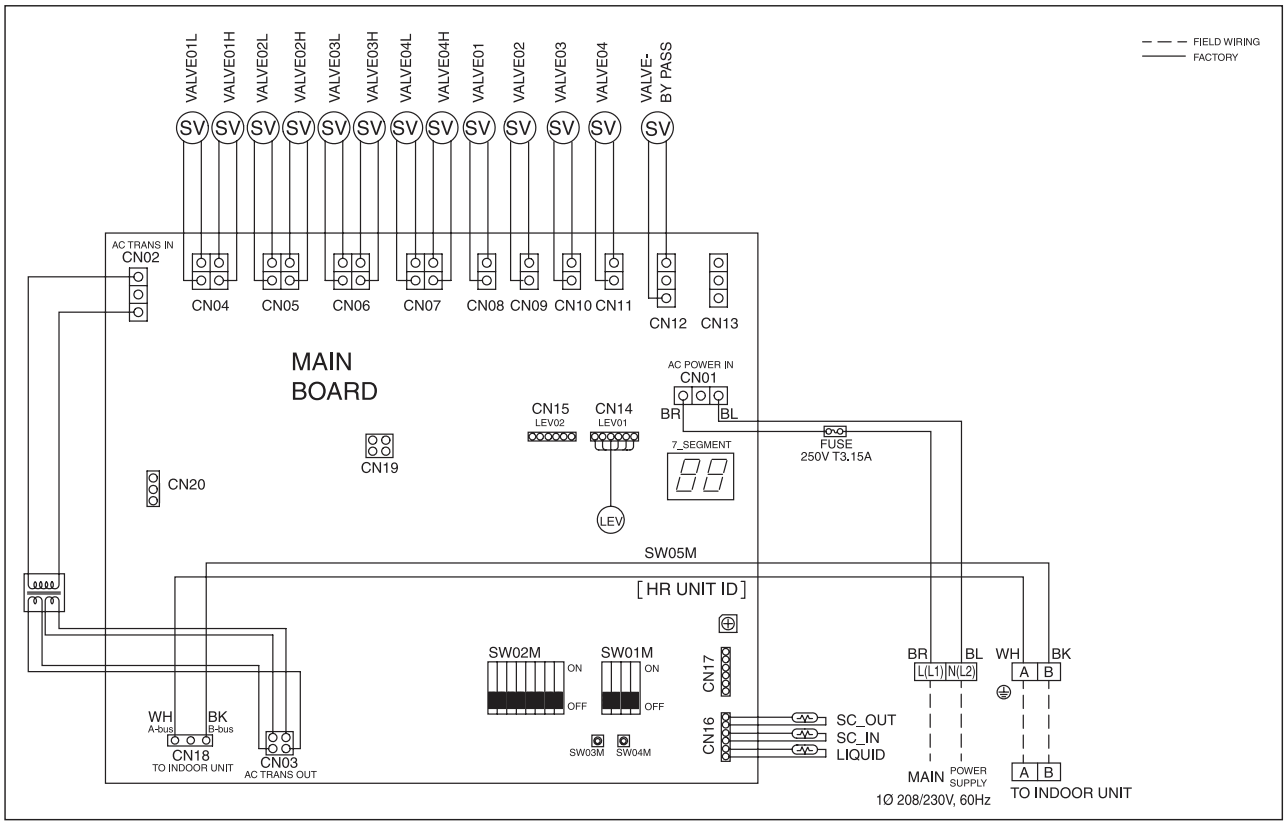
SYMBOL	DESCRIPTION
CN-01	MAIN PCB COMMUNICATION TERMINAL
CN-02	WIRE SELECT
CN-03	FLASH-WRITE(MAIN)
CN-05	FLASH-WRITE(SVC)
CN-06	THERMINAL FOR LGMV

SYMBOL	BL	WH	BK	BR	YL	GN/YL
COLOR	BLUE	WHITE	BLACK	BROWN	YELLOW	GREEN/YELLOW
	RED					

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WIRING DIAGRAMS

PRHR021A, PRHR031A, PRHR041A Heat Recovery Units



CN04	Solenoid Valve 01L/H (For Room 1)
CN05	Solenoid Valve 02L/H (For Room 2)
CN06	Solenoid Valve 03L/H (For Room 3)
CN07	Solenoid Valve 04L/H (For Room 4)
CN08	Solenoid Valve 01 (Bypass for Room 1)
CN09	Solenoid Valve 02 (Bypass for Room 2)
CN10	Solenoid Valve 03 (Bypass for Room 3)
CN11	Solenoid Valve 04 (Bypass for Room 4)
CN12	Solenoid Valve Bypass
CN14	Sub Cooling EEV
CN16 (SC Out)	Sensor, Sub Cooling Outlet
CN16 (SC In)	Sensor, Sub Cooling Inlet
CN16 (Liquid)	Sensor, Liquid Receiver
SW01M	Solonoid Valve Number Setting (When Manual Addressing)
SW02M (1)	Selecting, Auto Address (↓) or Manual Address (↑)
SW02M (2~3)	Setting, Total Number of Connected Indoor Units
SW03M	Setting, the Address of Indoor_10 (During Manual Addressing)
SW04M	Setting, the Address of Indoor_1 (During Manual Addressing)
SW05M	Setting, HR Unit Number

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Table 23: Summary Data—Zone Controllers.

Zone Controller	Name	Model No.	Case Color	Max. Wire Length (ft.)	Description
	Simple Controller with Mode Selection	PQRCVCL0Q	Black	164	Allows control of indoor unit ON / OFF, operation mode, fan speed, and temperature setpoint for up to 16 indoor units.
		PQRCVCL0QW	White		
	Simple Controller without Mode Selection	PQRCHCA0Q	Black	164	Allows control of indoor unit ON / OFF, fan speed, and temperature setpoint for up to 16 indoor units.
		PQRCHCA0W	White		
	LG Programmable Thermostat	PREMTB10U	White	164	Allows control of indoor unit ON / OFF, operation mode, occupied / unoccupied temperature setpoints, fan speed, and airflow direction for up to 16 indoor units. Programmable schedule with five events per day.
	Wireless Handheld	PQWRHDF0	Ivory	—	Allows control of indoor unit ON / OFF, operation mode, fan speed, and temperature setpoint. Also provides subfunction control.
	Wall-Mounted Remote Temperature Sensor	PQRSTA0	Ivory	50	Allows remote temperature measurement for cassette and ducted indoor units.

Before specifying or placing an order, refer to the V-Net Network Solutions Engineering Product Data Book, and review the detailed technical data provided to fully understand the capabilities and limitations of these devices.

For information on controller capatibility, refer to the Controls and Options Table on page 32.

Table 24: Summary Data—Zone Controller Communication Cables.

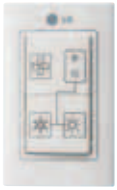
Communication Cable	Name	Model No.	Max. Wire Length (ft.)	Description
	Wired Remote Group Control Cable Assembly	PZCWRCG3	32	Required when grouping multiple indoor units with a single zone controller.
	Wired Remote / Group Control Extension Cable	PZCWRC1	32	Increases the distance between a remote controller and an indoor unit, or between indoor units in a control group.

Before specifying or placing an order, refer to the V-Net Network Solutions Engineering Product Data Book, and review the detailed technical data provided to fully understand the capabilities and limitations of these devices.

For information on controller capatibility, refer to the Controls and Options Table on page 32.

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Table 25: Summary Data—Specialty Application Devices.

Specialty Application Device	Name	Model No.	Connects To	Application	Binary Signals Input / Output	Description
	Dry Contact Unit 24 VAC	PQDSB1	Indoor Unit	ON / OFF, Run Status, Error Status	1 / 2	Enables the indoor unit to be controlled and monitored by third-party controls using binary inputs and outputs.
	Dry Contract Unit for Communication	PQDSBCGCD0		ON / OFF, Mode, Controller Lock, Power Save, Run Status, Error Status	2 / 2	
	Dry Contract Unit for Thermostat	PQDSBNGCM1		ON / OFF, Thermo ON / OFF, Mode, Fan Speed, Run Status, Error Status	—	Enables the indoor unit to be controlled and monitored by a third-party thermostat or controller.
	Digital Output (DO) Kit	PQNFP00T0	Comm. BUS	ON / OFF	0 / 1	One 25A DPST normally open relay. Used with central controller to control third-party device manually or by schedule.
	Auxiliary Heater Relay Kit	PRARH0	Indoor Unit	Third-party Supplemental Heat Control	0 /1	Adds coordinated control of an external heater with normal heat pump operations. Contact energizes at 2.7°F below setpoint. De-energizes at 2.7°F above setpoint.
		PRARS0				
	Power Distribution Indicator (PDI)	PQNUD1S41	Comm. BUS	Energy Consumption Monitoring	—	Monitors total water-source unit power consumption, and distributes per indoor unit based on weighted calculation.
	Mode Selector Switch	PRDSBM	Outdoor Unit	Multi V Heat Pumps Only.	—	Locks outdoor unit into Heat, Cool, or Fan mode.

Before specifying or placing an order, refer to the V-Net Network Solutions Engineering Product Data Book, and review the detailed technical data provided to fully understand the capabilities and limitations of these devices.

For information on controller capatibility, refer to the Controls and Options Table on page 32.

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Table 26: Summary Data—Central Controllers (Connect to the Outdoor Unit Terminals Internet A, Internet B).

Central Controller	Name	Model No.	Devices per Controller	Systems per Comm. BUS	Devices per Comm. BUS	No. of Comm. BUS ports	Binary Signals Input / Output	Power / Connection	Description
	AC Smart Premium	PQCSW421E0A	128	16	128	1	2 DI / 2 DO	24 VAC	Provides for scheduling, auto-changeover, setback, remote controller lock, setpoint range limit, run time limit, web access, email alarm notification, visual floorplan navigation, peak/ demand control, software device interlocking, PDI integration, and AC Manager Plus integration advanced functionality in addition to basic unit control and monitoring.
	AC Ez	PQCSZ250S0	32	16	256	1	—	12 VDC / Outdoor Unit	Provides for scheduling in addition to basic indoor unit control and monitoring.
	Advanced Control Platform (ACP) Standard	PQCPC22N1	256	16	64	4	—	120-240V / Outlet	Provides for scheduling, demand control, and PDI access over the web, in addition to basic indoor unit control and monitoring.
	Advanced Control Platform (ACP) with I/O Premium	PQCPC22A1	256	16	64			120-240V / Outlet	

Before specifying or placing an order, refer to the V-Net Network Solutions Engineering Product Data Book, and review the detailed technical data provided to fully understand the capabilities and limitations of these devices.

For information on controller capatibility, refer to the Controls and Options Table on page 32.

Table 27: Summary Data—Integration Solutions (Connect to Outdoor Unit Terminals Internet A, Internet B).

Central Controller	Name	Model No.	Devices per Controller	Systems per Comm. BUS	Devices per Comm. BUS	No. of Comm. BUS ports	Power / Connection	Description
	BACnet® Gateway	PQNFB17B0	256	16	16	4	120-240V / Outlet	Allow integration of LG equipment for control and monitoring by open protocol BACnet and LonWorks building automation and controls systems.
	LonWorks® Gateway	PQNFB16A1	64	64	64	1	120-240V / Outlet	

Before specifying or placing an order, refer to the V-Net Network Solutions Engineering Product Data Book, and review the detailed technical data provided to fully understand the capabilities and limitations of these devices.

For information on controller capatibility, refer to the Controls and Options Table on page 32.

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LG Monitoring View (LGMV) Diagnostic Software and Cable

(PRCTSL1 and PRCTFE1)

LGMV software allows the service technician or commissioning agent to connect a computer USB port to the outdoor unit main printed circuit board (PCB) using an accessory cable without the need for a separate interface device. The main screen for LGMV shall allow user to view the following real time data on one screen:



- Actual inverter compressor speed
- Target inverter compressor speed
- Actual outdoor fan speed
- Target outdoor unit fan speed
- Actual superheat
- Target superheat
- Actual subcooler circuit superheat
- Target subcooler circuit superheat
- Main EEV position
- Subcooling EEV position
- Inverter compressor current transducer value
- Outdoor air temperature
- Actual high pressure/saturation temperature
- Actual low pressure/saturation temperature
- Suction temperature
- Inverter compressor discharge temperature
- Constant speed compressor discharge temperature
- Front outdoor coil pipe temperature
- Back outdoor coil pipe temperature
- Liquid line pipe temperature
- Subcooler inlet temperature
- Subcooler outlet temperature
- Average indoor unit (IDU) pipe temperature
- Inverter compressor operation indicator light
- Constant speed compressor operation indicator light
- Liquid injection valves' operation indicator lights
- Hot gas bypass valve operation indicator light
- Four-way reversing valve operation indicator light
- Pressure graph showing actual low pressure and actual high pressure levels
- Error code display
- Operating mode indicator
- Target high pressure
- Target low pressure
- PCB (printed circuit board) version
- Software version
- Installer name
- Model number of outdoor units
- Site name
- Total number of connected indoor units
- Communication indicator lights
- Indoor unit capacity
- Indoor unit operating mode
- Indoor unit fan speed
- Indoor unit EEV position
- Indoor unit room temperature
- Indoor unit inlet pipe temperature
- Indoor unit outlet pipe temperature
- Indoor unit error code

LG Monitoring View (LGMV) Diagnostic Software and Cable, continued.

Additional screens can be accessed by tabs on the main screen:

1. Cycleview: Graphic of internal components including:
   - Compressors showing actual speeds
   - EEVs
   - IDUs
   - Liquid injection valves
   - Temperature and pressure sensors
   - Four-way reversing valve
   - Outdoor fans showing status and speeds

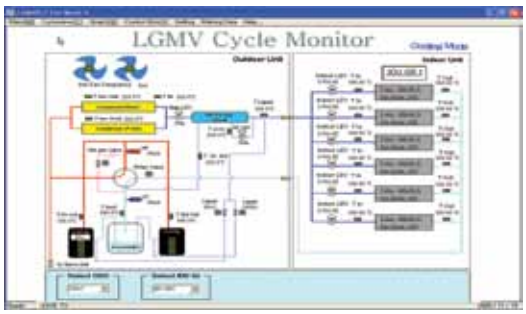


Figure 19: MV Cycleview.

2. Graph: Full screen graph of actual high and low pressures and high and low pressure limits. A sliding bar enables user to go back in time and view data.
3. Control IDU: Enables user to turn on all IDU's default setpoints of 86°F in heat mode or 64°F in cool mode.
4. Setting: Converts metric values to imperial values.
5. Making Data: Recording of real time data to a separate file created to be stored on the user's computer.
6. Loading Data: Recorded data from a saved ".CSV" file can be loaded to create an LGMV session.

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LG Monitoring View (LGMV) Diagnostic Software and Cable, continued.

7. Electrical Data: The lower half of main screen is changed to show the following:

- Inverter compressor
  - Amps
  - Volts
  - Power Hz
  - Inverter control board fan Hz
- Constant compressor
  - Current transducer value
  - Phase



Figure 20: MV Real-time Data Screen.

The software is available in a high version with all of the features listed above. The low version has all features as the high version without Target High Pressure and Target Low Pressure values shown on main screen.

In lieu of connecting to the ODU, user has the option to connect to IDU with the use of a USB to RS-485 connector kit. When connected through IDU, user will not be able to record data.

This software can be used to both commission new systems and troubleshoot existing systems. LGMV data can be recorded to a ".CSV" file and emailed to an LG representative to assist with diagnostic evaluations.

Recommended Minimum PC Configuration:

- CPU: Pentium® IV 1.6 GHz
- Operating System: Windows® NT/2000/XP/Vista
- Main Memory: 256 MB
- Hard Disk: 600 MB when operating
- Web Browser: Internet Explorer® 5.0

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Air Guides

(PRAGX2S0 and PRAGX3S0)

Optional air guides are available for Multi V III outdoor units to change the discharge direction from vertical to horizontal.

Figure 21: Air Guide.



Figure 22: PRAGX2S0 Air Guide.



Figure 23: PRAGX3S0 Air Guide.



Use PRAGX2SO air guides with the following models: ARUN072BT3, ARUN072DT3, ARUB072BT3, ARUB072DT3.

Use PRAGX3SO air guides with the following models: ARUN096BT3, ARUN121BT3, ARUN144BT3, ARUN096DT3, ARUN121DT3, ARUN144DT3, ARUB096BT3, ARUB121BT3, ARUB144BT3, ARUB096DT3, ARUB121DT3, ARUB144DT3.

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PERFORMANCE DATA

“Cooling Capacity Data” on page 82
“Heating Capacity Data” on page 130

PERFORMANCE DATA

MULTI V III

Cooling Capacity — ARUN072BT3, ARUN072DT3 / ARUB072BT3, ARUB072DT3

72,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	65.5	1.97	77.8	2.38	90.4	2.82	93.7	3.05	95.1	3.28	98.4	3.76	100.7	3.89
	25	65.5	1.98	77.8	2.40	90.4	2.84	93.7	3.07	95.1	3.30	98.4	3.78	100.7	3.91
	30	65.5	2.01	77.8	2.43	90.4	2.87	93.7	3.10	95.1	3.34	98.4	3.82	100.7	3.96
	35	65.5	2.03	77.8	2.46	90.4	2.90	93.7	3.14	95.1	3.38	98.4	3.87	100.7	4.00
	40	65.5	2.05	77.8	2.49	90.4	2.94	93.7	3.18	95.1	3.42	98.4	3.92	100.7	4.05
	45	65.5	2.07	77.8	2.51	90.4	2.97	93.7	3.21	95.1	3.45	98.4	3.96	100.7	4.09
	50	65.5	2.10	77.8	2.54	90.4	3.00	93.7	3.24	95.1	3.49	98.4	4.00	100.7	4.13
	55	65.5	2.13	77.8	2.58	90.4	3.06	92.4	3.31	93.7	3.56	97.0	4.07	99.4	4.16
	60	65.5	2.20	77.8	2.68	89.1	3.18	90.3	3.44	91.4	3.69	94.7	4.19	97.0	4.21
	65	65.5	2.25	77.8	2.73	87.7	3.24	89.1	3.51	90.1	3.76	93.3	4.33	95.7	4.37
	70	65.5	2.16	77.8	2.63	86.1	3.23	87.1	3.56	88.4	3.90	91.6	4.33	94.0	4.38
	75	65.5	2.22	77.8	2.80	84.8	3.46	85.7	3.82	87.1	4.18	90.3	4.54	92.6	4.57
	80	65.5	2.52	77.8	3.19	82.4	3.96	83.4	4.37	84.8	4.80	87.9	4.93	90.3	4.97
	85	65.5	2.68	77.8	3.41	81.1	4.23	82.4	4.66	83.4	5.09	86.6	5.13	89.0	5.18
	90	65.5	3.04	76.4	3.87	78.8	4.80	79.8	5.31	81.1	5.49	84.3	5.53	86.6	5.59
	95	66.2	3.22	75.9	4.12	78.3	5.12	79.6	5.66	80.6	5.69	83.8	5.74	86.2	5.79
	100	66.2	3.49	74.6	4.45	76.9	5.55	78.3	5.96	79.3	5.99	82.8	6.05	85.2	6.10
	105	66.2	3.93	72.6	5.04	74.9	6.26	76.1	6.41	77.2	6.44	79.9	6.50	81.1	6.56
	110	66.2	4.41	69.6	5.68	72.5	6.83	72.7	6.87	73.8	6.89	75.3	6.96	75.6	7.02
	115	65.8	5.11	67.0	6.53	67.0	7.20	67.0	7.20	67.0	7.20	68.0	7.22	68.3	7.23
	118	57.2	4.33	58.3	5.54	58.4	6.06	58.4	6.11	58.4	6.11	59.2	6.12	59.0	6.13
	122	45.7	3.28	46.7	4.21	46.5	4.61	46.6	4.62	46.7	4.63	47.5	4.64	47.5	4.66
120	23	59.6	1.85	71.1	2.24	82.6	2.65	88.5	2.86	92.5	3.08	96.7	3.53	98.7	3.65
	25	59.6	1.86	71.1	2.25	82.6	2.66	88.5	2.88	92.5	3.10	96.7	3.55	98.7	3.67
	30	59.6	1.88	71.1	2.28	82.6	2.69	88.5	2.91	92.5	3.13	96.7	3.59	98.7	3.71
	35	59.6	1.91	71.1	2.30	82.6	2.73	88.5	2.95	92.5	3.17	96.7	3.63	98.7	3.76
	40	59.6	1.93	71.1	2.34	82.6	2.76	88.5	2.99	92.5	3.21	96.7	3.68	98.7	3.81
	45	59.6	1.95	71.1	2.36	82.6	2.79	88.5	3.02	92.5	3.25	96.7	3.72	98.7	3.85
	50	59.6	1.97	71.1	2.39	82.6	2.82	88.5	3.05	92.5	3.28	96.7	3.76	98.7	3.89
	55	59.6	2.01	71.1	2.43	82.6	2.88	88.5	3.12	91.5	3.35	95.4	3.83	97.7	3.92
	60	59.6	2.07	71.1	2.52	82.6	3.00	87.9	3.24	88.9	3.48	93.0	3.95	95.0	4.02
	65	59.6	2.12	71.1	2.57	82.6	3.05	86.6	3.30	87.9	3.54	91.7	4.08	94.0	4.11
	70	59.6	2.08	71.1	2.52	82.6	3.10	84.9	3.41	85.9	3.75	90.0	4.16	92.0	4.20
	75	59.6	2.13	71.1	2.69	82.6	3.32	83.6	3.66	84.9	4.02	88.6	4.36	91.0	4.39
	80	59.6	2.42	71.1	3.06	80.3	3.80	81.3	4.19	82.3	4.61	86.3	4.73	88.3	4.77
	85	59.6	2.57	71.1	3.27	79.0	4.06	80.0	4.47	81.3	4.89	84.9	4.93	87.3	4.97
	90	59.6	2.92	71.1	3.72	76.7	4.61	77.7	5.10	78.7	5.27	82.6	5.31	84.6	5.36
	95	60.2	3.09	71.9	3.95	76.2	4.92	77.2	5.44	78.5	5.46	82.1	5.51	84.5	5.56
	100	60.2	3.35	71.9	4.28	74.8	5.33	76.2	5.72	77.2	5.75	81.1	5.81	83.1	5.86
	105	60.2	3.77	70.7	4.84	72.9	6.02	74.0	6.15	75.0	6.19	78.7	6.24	80.0	6.30
	110	60.2	4.24	68.9	5.45	71.1	6.56	71.4	6.59	72.4	6.61	74.7	6.68	75.0	6.74
	115	58.5	4.90	66.4	6.27	66.4	6.92	66.4	6.92	66.4	6.92	68.0	6.93	68.3	6.94
	118	52.3	4.33	57.7	5.31	57.8	5.82	57.8	5.87	57.8	5.87	59.2	5.88	59.0	5.89
	122	41.8	3.28	46.3	4.04	46.1	4.43	46.2	4.44	46.3	4.44	47.6	4.46	47.5	4.47
110	23	55.2	1.70	65.9	2.06	76.5	2.43	81.8	2.63	87.2	2.82	96.0	3.24	98.1	3.35
	25	55.2	1.71	65.9	2.07	76.5	2.45	81.8	2.65	87.2	2.84	96.0	3.25	98.1	3.36
	30	55.2	1.73	65.9	2.09	76.5	2.48	81.8	2.68	87.2	2.88	96.0	3.30	98.1	3.41
	35	55.2	1.76	65.9	2.12	76.5	2.51	81.8	2.71	87.2	2.92	96.0	3.35	98.1	3.46
	40	55.2	1.78	65.9	2.15	76.5	2.55	81.8	2.75	87.2	2.96	96.0	3.39	98.1	3.50
	45	55.2	1.81	65.9	2.19	76.5	2.59	81.8	2.80	87.2	3.01	96.0	3.45	98.1	3.57
	50	55.2	1.84	65.9	2.22	76.5	2.63	81.8	2.84	87.2	3.06	96.0	3.50	98.1	3.62
	55	55.2	1.87	65.9	2.26	76.5	2.68	81.8	2.90	87.2	3.12	94.7	3.56	96.7	3.65
	60	55.2	1.93	65.9	2.35	76.5	2.79	81.8	3.02	87.2	3.24	92.3	3.68	94.3	3.71
	65	55.2	1.97	65.9	2.40	76.5	2.84	81.8	3.08	87.2	3.30	90.9	3.80	93.0	3.83
	70	55.2	1.99	65.9	2.42	76.5	2.98	81.8	3.27	85.5	3.59	89.2	3.99	91.3	4.03
	75	55.2	2.04	65.9	2.58	76.5	3.18	81.8	3.51	84.2	3.85	87.9	4.18	89.9	4.21
	80	54.7	2.32	65.2	2.94	75.7	3.64	80.0	4.02	81.0	4.42	84.6	4.54	86.6	4.58
	85	54.7	2.47	65.2	3.13	75.7	3.89	78.7	4.29	79.7	4.69	83.3	4.73	85.3	4.77
	90	54.7	2.80	65.2	3.56	75.4	4.42	76.4	4.89	77.4	5.05	80.9	5.09	83.0	5.14
	95	54.7	2.97	65.2	3.79	74.1	4.72	75.1	5.21	76.1	5.23	79.6	5.28	81.6	5.33
	100	54.7	3.21	65.2	4.10	73.1	5.11	74.1	5.49	75.1	5.52	78.6	5.57	80.6	5.62
	105	54.7	3.62	65.2	4.64	70.8	5.77	71.8	5.90	72.8	5.93	76.3	5.98	78.2	6.04
	110	54.7	4.06	65.2	5.23	68.6	6.29	68.8	6.32	69.8	6.34	72.0	6.40	72.3	6.47
	115	54.7	4.70	65.2	6.01	65.7	6.63	65.7	6.63	66.0	6.63	67.3	6.64	67.6	6.65
	118	52.8	4.28	56.7	5.10	57.2	5.58	57.2	5.63	57.5	5.63	58.6	5.64	58.4	5.65
	122	42.2	3.25	45.5	3.87	45.6	4.24	45.7	4.25	46.0	4.26	47.1	4.27	47.0	4.29

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80°F dry bulb (DB) and 67°F wet bulb (WB), and outdoor ambient conditions of 95°F dry bulb (DB) and 75°F wet bulb (WB).

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PERFORMANCE DATA

ARUN072BT3, ARUN072DT3 / ARUB072BT3, ARUB072DT3

Cooling Capacity

72,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	23	48.5	1.54	57.9	1.86	67.2	2.2	72	2.38	79.1	2.59	88.7	2.97	93.7	3.09
	25	48.5	1.55	57.9	1.87	67.2	2.22	72	2.4	79.1	2.61	88.7	3	93.7	3.12
	30	48.5	1.59	57.9	1.92	67.2	2.27	72	2.45	79.1	2.68	88.7	3.07	93.7	3.19
	35	48.5	1.61	57.9	1.95	67.2	2.31	72	2.49	79.1	2.72	88.7	3.12	93.7	3.25
	40	48.5	1.64	57.9	1.98	67.2	2.34	72	2.53	79.1	2.77	88.7	3.17	93.7	3.3
	45	48.5	1.67	57.9	2.03	67.2	2.39	72	2.59	79.1	2.82	88.7	3.24	93.7	3.36
	50	48.5	1.71	57.9	2.06	67.2	2.44	72	2.64	79.1	2.88	88.7	3.3	93.7	3.43
	55	48.5	1.73	57.9	2.1	67.2	2.49	72	2.7	79.1	2.94	88.7	3.36	92.7	3.48
	60	48.5	1.79	57.9	2.18	67.2	2.59	72	2.8	79.1	3.05	88.4	3.46	90.1	3.55
	65	48.5	1.83	57.9	2.22	67.2	2.64	72	2.86	79.1	3.11	87.1	3.58	89.1	3.65
	70	48.5	1.89	57.9	2.29	67.2	2.82	72	3.1	79.1	3.45	85.4	3.84	87.1	3.9
	75	48.5	1.93	57.9	2.44	67.2	3.02	72	3.33	79.1	3.7	84.1	4.02	86.1	4.07
	80	48.5	2.2	57.9	2.78	67.2	3.45	72	3.81	79.1	4.25	81.8	4.36	83.4	4.42
	85	48.5	2.34	57.9	2.97	67.2	3.69	72	4.06	78.8	4.51	80.5	4.55	82.4	4.61
	90	48.5	2.65	57.9	3.38	67.2	4.19	72	4.63	76.1	4.86	78.1	4.9	79.8	4.97
	95	48.5	2.81	57.9	3.59	67.2	4.47	**72**	**4.94**	75.2	5.03	76.8	5.08	78.8	5.15
	100	48.5	3.03	57.9	3.88	67.2	4.83	70.7	5.19	73.9	5.29	75.8	5.34	77.5	5.42
	105	48.5	3.41	57.9	4.37	66.8	5.43	68.8	5.56	71.6	5.67	73.5	5.72	75.3	5.8
	110	48.5	3.81	57.9	4.9	66	5.9	67.5	5.93	68.9	6.04	70	6.1	71.3	6.18
	115	48.5	4.38	57.9	5.6	62.9	6.18	64.8	6.18	66.4	6.27	67	6.28	67.3	6.32
	118	48.5	4.42	50.8	5.25	54.7	5.19	56.4	5.24	57.8	5.32	58.4	5.33	58.1	5.36
	122	41.5	4.00	40.7	3.99	43.6	3.95	45.1	3.96	46.3	4.03	46.9	4.04	46.8	4.08
90	23	43.7	1.37	52.1	1.65	60.8	1.95	64.9	2.1	69.1	2.26	77.5	2.57	85.8	2.84
	25	43.7	1.39	52.1	1.67	60.8	1.98	64.9	2.13	69.1	2.29	77.5	2.61	85.8	2.88
	30	43.7	1.43	52.1	1.72	60.8	2.03	64.9	2.19	69.1	2.36	77.5	2.68	85.8	2.96
	35	43.7	1.48	52.1	1.78	60.8	2.09	64.9	2.26	69.1	2.43	77.5	2.76	85.8	3.05
	40	43.7	1.52	52.1	1.83	60.8	2.16	64.9	2.33	69.1	2.51	77.5	2.85	85.8	3.14
	45	43.7	1.56	52.1	1.87	60.8	2.21	64.9	2.38	69.1	2.56	77.5	2.91	85.8	3.22
	50	43.7	1.59	52.1	1.91	60.8	2.26	64.9	2.43	69.1	2.62	77.5	2.98	85.8	3.29
	55	43.7	1.61	52.1	1.94	60.8	2.3	64.9	2.48	69.1	2.67	77.5	3.03	85.8	3.32
	60	43.7	1.67	52.1	2.02	60.8	2.38	64.9	2.58	69.1	2.78	77.5	3.15	85.1	3.35
	65	43.7	1.7	52.1	2.06	60.8	2.43	64.9	2.63	69.1	2.83	77.5	3.21	84.5	3.52
	70	43.7	1.75	52.1	2.12	60.8	2.52	64.9	2.78	69.1	3.03	77.5	3.58	82.9	3.78
	75	43.7	1.78	52.1	2.22	60.8	2.7	64.9	2.97	69.1	3.26	77.5	3.74	81.6	3.95
	80	43.7	1.99	52.1	2.51	60.8	3.08	64.9	3.4	69.1	3.72	77.5	4.13	79.4	4.3
	85	43.7	2.12	52.1	2.68	60.8	3.3	64.9	3.62	69.1	3.97	76.5	4.35	78.1	4.48
	90	43.7	2.39	52.1	3.03	60.8	3.74	64.9	4.12	69.1	4.52	74.3	4.76	75.9	4.83
	95	43.7	2.55	52.1	3.22	60.8	3.98	64.9	4.4	69.1	4.83	73	4.94	74.6	5.01
	100	43.7	2.63	52.1	3.36	60.8	4.15	64.9	4.57	69.1	4.93	72	5.15	73.3	5.21
	105	43.7	3.05	52.1	3.89	60.8	4.69	64.9	5	68.3	5.29	69.8	5.52	70.7	5.59
	110	43.7	3.51	52.1	4.49	60.8	5.15	64.9	5.4	65.6	5.74	66.4	5.93	67	6
	115	43.7	3.8	52.1	4.87	56.9	5.42	61.6	5.65	62.4	5.92	63	6.05	63.3	6.13
	118	43.7	4.03	50.8	5.25	49.5	4.56	53.6	4.80	54.4	5.02	54.9	5.13	54.6	5.20
	122	41.5	4.00	40.7	3.99	39.5	3.47	42.8	3.63	43.5	3.80	44.1	3.89	44.0	3.95
80	23	38.9	1.2	46.3	1.44	54	1.69	57.5	1.82	61.4	1.95	68.8	2.23	76.2	2.5
	25	38.9	1.21	46.3	1.45	54	1.7	57.5	1.84	61.4	1.97	68.8	2.26	76.2	2.52
	30	38.9	1.25	46.3	1.49	54	1.75	57.5	1.89	61.4	2.02	68.8	2.32	76.2	2.6
	35	38.9	1.28	46.3	1.54	54	1.8	57.5	1.94	61.4	2.08	68.8	2.39	76.2	2.67
	40	38.9	1.32	46.3	1.58	54	1.85	57.5	2	61.4	2.14	68.8	2.45	76.2	2.74
	45	38.9	1.33	46.3	1.6	54	1.88	57.5	2.03	61.4	2.16	68.8	2.48	76.2	2.78
	50	38.9	1.35	46.3	1.62	54	1.9	57.5	2.05	61.4	2.2	68.8	2.52	76.2	2.82
	55	38.9	1.37	46.3	1.65	54	1.93	57.5	2.09	61.4	2.24	68.8	2.57	76.2	2.87
	60	38.9	1.42	46.3	1.7	54	2	57.5	2.16	61.4	2.33	68.8	2.66	76.2	2.98
	65	38.9	1.44	46.3	1.74	54	2.04	57.5	2.2	61.4	2.37	68.8	2.7	76.2	3.05
	70	38.9	1.48	46.3	1.78	54	2.11	57.5	2.27	61.4	2.47	68.8	2.92	76.2	3.38
	75	38.9	1.51	46.3	1.82	54	2.21	57.5	2.42	61.4	2.63	68.8	3.1	76.2	3.56
	80	38.9	1.65	46.3	2.07	54	2.52	57.5	2.75	61.4	3.01	68.8	3.57	76.2	3.98
	85	38.9	1.76	46.3	2.2	54	2.68	57.5	2.94	61.4	3.22	68.8	3.8	76.2	4.08
	90	38.9	1.98	46.3	2.49	54	3.03	57.5	3.33	61.4	3.66	68.8	4.18	74.9	4.32
	95	38.9	2.11	46.3	2.63	54	3.24	57.5	3.54	61.4	3.89	68.8	4.32	73.3	4.44
	100	38.9	2.27	46.3	2.84	54	3.49	57.5	3.79	61.4	4.04	68.8	4.5	71.7	4.58
	105	38.9	2.59	46.3	3.25	54	3.89	57.5	4.07	61.4	4.34	68	4.68	69.6	4.81
	110	38.9	2.94	46.3	3.71	54	4.12	57.5	4.35	61.4	4.67	65.6	4.85	65.9	5.06
	115	38.9	3.14	46.3	3.96	54	4.26	57.5	4.57	57.5	4.78	57.9	4.96	57.9	5.26
	118	38.9	3.34	46.3	4.21	49.5	4.56	50.5	4.34	50.1	4.06	50.4	4.21	50.0	4.46
	122	38.9	3.61	40.8	3.97	39.5	3.47	40.4	3.28	40.1	3.07	40.5	3.19	40.2	3.39

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN072BT3, ARUN072DT3 / ARUB072BT3, ARUB072DT3

72,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	34.1	1.05	40.5	1.25	47.3	1.46	50.5	1.57	53.7	1.68	60.1	1.91	66.9	2.15
	25	34.1	1.06	40.5	1.26	47.3	1.48	50.5	1.59	53.7	1.69	60.1	1.93	66.9	2.17
	30	34.1	1.09	40.5	1.29	47.3	1.51	50.5	1.63	53.7	1.74	60.1	1.98	66.9	2.23
	35	34.1	1.12	40.5	1.33	47.3	1.56	50.5	1.67	53.7	1.79	60.1	2.03	66.9	2.29
	40	34.1	1.15	40.5	1.36	47.3	1.59	50.5	1.71	53.7	1.83	60.1	2.09	66.9	2.34
	45	34.1	1.17	40.5	1.38	47.3	1.62	50.5	1.74	53.7	1.86	60.1	2.12	66.9	2.38
	50	34.1	1.19	40.5	1.41	47.3	1.65	50.5	1.77	53.7	1.89	60.1	2.15	66.9	2.42
	55	34.1	1.21	40.5	1.43	47.3	1.67	50.5	1.8	53.7	1.93	60.1	2.2	66.9	2.47
	60	34.1	1.24	40.5	1.48	47.3	1.74	50.5	1.87	53.7	2	60.1	2.28	66.9	2.57
	65	34.1	1.26	40.5	1.51	47.3	1.76	50.5	1.9	53.7	2.04	60.1	2.32	66.9	2.61
	70	34.1	1.3	40.5	1.55	47.3	1.82	50.5	1.96	53.7	2.1	60.1	2.4	66.9	2.77
	75	34.1	1.32	40.5	1.58	47.3	1.85	50.5	2.02	53.7	2.2	60.1	2.57	66.9	2.94
	80	34.1	1.42	40.5	1.74	47.3	2.11	50.5	2.3	53.7	2.49	60.1	2.84	66.9	3.25
	85	34.1	1.51	40.5	1.85	47.3	2.24	50.5	2.45	53.7	2.68	60.1	3.02	66.9	3.39
	90	34.1	1.69	40.5	2.09	47.3	2.54	50.5	2.77	53.7	3.03	60.1	3.37	66.9	3.68
	95	34.1	1.79	40.5	2.22	47.3	2.7	50.5	2.96	53.7	3.22	60.1	3.54	66.9	3.79
	100	34.1	1.93	40.5	2.4	47.3	2.92	50.5	3.19	53.7	3.31	60.1	3.71	66.9	3.9
	105	34.1	2.19	40.5	2.74	47.3	3.22	50.5	3.4	53.7	3.6	60.1	3.91	66.9	4.13
	110	34.1	2.47	40.5	3.1	47.3	3.4	50.5	3.61	53.7	3.9	60.1	4.07	64.9	4.44
	115	34.1	2.66	40.5	3.31	47.3	3.52	50.5	3.81	53.7	4.02	60.1	4.19	61.2	4.73
	118	34.1	2.82	40.5	3.51	47.3	3.74	50.5	4.04	48.8	4.02	50.4	3.56	50.0	4.01
	122	34.1	3.04	40.5	3.80	42.2	3.57	40.3	3.32	39.1	3.04	40.5	2.70	40.2	3.05
60	23	29.3	0.9	34.7	1.06	40.5	1.24	43.1	1.33	46	1.42	51.8	1.61	57.2	1.81
	25	29.3	0.91	34.7	1.07	40.5	1.25	43.1	1.34	46	1.44	51.8	1.63	57.2	1.83
	30	29.3	0.94	34.7	1.1	40.5	1.28	43.1	1.38	46	1.47	51.8	1.67	57.2	1.88
	35	29.3	0.96	34.7	1.13	40.5	1.31	43.1	1.41	46	1.51	51.8	1.71	57.2	1.93
	40	29.3	0.98	34.7	1.16	40.5	1.35	43.1	1.45	46	1.55	51.8	1.76	57.2	1.98
	45	29.3	0.99	34.7	1.17	40.5	1.36	43.1	1.46	46	1.57	51.8	1.77	57.2	1.99
	50	29.3	1	34.7	1.18	40.5	1.37	43.1	1.48	46	1.58	51.8	1.79	57.2	2.01
	55	29.3	1.02	34.7	1.2	40.5	1.4	43.1	1.5	46	1.61	51.8	1.83	57.2	2.04
	60	29.3	1.05	34.7	1.24	40.5	1.45	43.1	1.56	46	1.67	51.8	1.89	57.2	2.13
	65	29.3	1.06	34.7	1.26	40.5	1.48	43.1	1.58	46	1.69	51.8	1.93	57.2	2.17
	70	29.3	1.09	34.7	1.3	40.5	1.52	43.1	1.63	46	1.74	51.8	1.98	57.2	2.25
	75	29.3	1.11	34.7	1.32	40.5	1.54	43.1	1.66	46	1.8	51.8	2.1	57.2	2.4
	80	29.3	1.18	34.7	1.44	40.5	1.73	43.1	1.89	46	2.04	51.8	2.35	57.2	2.71
	85	29.3	1.26	34.7	1.53	40.5	1.84	43.1	2.01	46	2.19	51.8	2.48	57.2	2.79
	90	29.3	1.41	34.7	1.73	40.5	2.08	43.1	2.27	46	2.46	51.8	2.77	57.2	3.05
	95	29.3	1.49	34.7	1.83	40.5	2.21	43.1	2.42	46	2.6	51.8	2.89	57.2	3.21
	100	29.3	1.6	34.7	1.97	40.5	2.38	43.1	2.61	46	2.72	51.8	3.07	57.2	3.35
	105	29.3	1.82	34.7	2.24	40.5	2.63	43.1	2.78	46	2.96	51.8	3.26	57.2	3.65
	110	29.3	2.04	34.7	2.55	40.5	2.84	43.1	2.95	46	3.2	51.8	3.49	57.2	3.98
	115	29.3	2.19	34.7	2.72	40.5	2.95	43.1	3.12	46	3.31	51.8	3.69	57.2	4.26
	118	29.3	2.32	34.7	2.88	40.5	3.13	43.1	3.32	46.0	3.52	50.4	3.56	50.0	4.01
	122	29.3	2.50	34.7	3.12	40.5	3.39	40.2	3.36	38.9	3.12	40.5	2.70	40.2	3.05
50	23	24.3	0.79	28.9	0.91	33.8	1.05	36	1.11	38.3	1.19	43.1	1.33	47.6	1.48
	25	24.3	0.8	28.9	0.93	33.8	1.05	36	1.13	38.3	1.21	43.1	1.35	47.6	1.5
	30	24.3	0.82	28.9	0.95	33.8	1.09	36	1.16	38.3	1.24	43.1	1.38	47.6	1.54
	35	24.3	0.84	28.9	0.97	33.8	1.12	36	1.19	38.3	1.27	43.1	1.42	47.6	1.58
	40	24.3	0.86	28.9	1	33.8	1.15	36	1.22	38.3	1.3	43.1	1.46	47.6	1.62
	45	24.3	0.87	28.9	1.01	33.8	1.16	36	1.24	38.3	1.32	43.1	1.48	47.6	1.65
	50	24.3	0.89	28.9	1.03	33.8	1.18	36	1.25	38.3	1.34	43.1	1.5	47.6	1.67
	55	24.3	0.91	28.9	1.05	33.8	1.2	36	1.27	38.3	1.36	43.1	1.53	47.6	1.7
	60	24.3	0.92	28.9	1.07	33.8	1.24	36	1.32	38.3	1.4	43.1	1.57	47.6	1.76
	65	24.3	0.93	28.9	1.09	33.8	1.25	36	1.34	38.3	1.42	43.1	1.6	47.6	1.79
	70	24.3	0.96	28.9	1.11	33.8	1.28	36	1.38	38.3	1.46	43.1	1.65	47.6	1.85
	75	24.3	0.97	28.9	1.13	33.8	1.31	36	1.4	38.3	1.49	43.1	1.68	47.6	1.89
	80	24.3	1	28.9	1.2	33.8	1.4	36	1.52	38.3	1.63	43.1	1.88	47.6	2.14
	85	24.3	1.07	28.9	1.26	33.8	1.49	36	1.61	38.3	1.73	43.1	2	47.6	2.28
	90	24.3	1.19	28.9	1.41	33.8	1.68	36	1.81	38.3	1.95	43.1	2.25	47.6	2.58
	95	24.3	1.25	28.9	1.5	33.8	1.77	36	1.92	38.3	2.07	43.1	2.39	47.6	2.74
	100	24.3	1.32	28.9	1.58	33.8	1.88	36	2.04	38.3	2.2	43.1	2.55	47.6	2.91
	105	24.3	1.44	28.9	1.75	33.8	2.07	36	2.25	38.3	2.43	43.1	2.82	47.6	3.24
	110	24.3	1.59	28.9	1.93	33.8	2.3	36	2.5	38.3	2.71	43.1	3.15	47.6	3.62
	115	24.3	1.71	28.9	2.07	33.8	2.47	36	2.69	38.3	2.91	43.1	3.39	47.6	3.9
	118	24.3	1.84	28.9	2.25	33.8	2.68	36.0	2.92	38.3	3.17	43.1	3.56	47.6	4.01
	122	24.3	2.03	28.9	2.49	33.8	2.97	36.0	3.24	38.3	3.12	40.5	2.70	40.2	3.05

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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ARUN096BT3, ARUN096DT3 / ARUB096BT3, ARUB096DT3 Cooling Capacity

96,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	23	87.3	2.69	103.7	3.26	120.5	3.85	125.0	4.17	126.7	4.48	131.1	5.13	134.3	5.31
	25	87.3	2.70	103.7	3.27	120.5	3.88	125.0	4.19	126.7	4.51	131.1	5.17	134.3	5.34
	30	87.3	2.74	103.7	3.32	120.5	3.92	125.0	4.24	126.7	4.56	131.1	5.22	134.3	5.41
	35	87.3	2.77	103.7	3.36	120.5	3.97	125.0	4.29	126.7	4.61	131.1	5.29	134.3	5.47
	40	87.3	2.81	103.7	3.40	120.5	4.02	125.0	4.34	126.7	4.67	131.1	5.35	134.3	5.54
	45	87.3	2.84	103.7	3.43	120.5	4.06	125.0	4.39	126.7	4.71	131.1	5.41	134.3	5.59
	50	87.3	2.86	103.7	3.47	120.5	4.10	125.0	4.43	126.7	4.76	131.1	5.46	134.3	5.65
	55	87.3	2.91	103.7	3.53	120.5	4.18	123.2	4.53	125.0	4.86	129.3	5.55	132.5	5.69
	60	87.3	3.01	103.7	3.66	118.8	4.35	120.5	4.70	121.9	5.05	126.2	5.73	129.3	5.75
	65	87.3	3.07	103.7	3.73	117.0	4.43	118.8	4.80	120.1	5.14	124.4	5.92	127.6	5.97
	70	87.3	2.95	103.7	3.59	114.8	4.42	116.1	4.86	117.9	5.33	122.2	5.92	125.3	5.98
	75	87.3	3.03	103.7	3.83	113.0	4.73	114.3	5.21	116.1	5.72	120.4	6.20	123.5	6.25
	80	87.3	3.44	103.7	4.36	109.9	5.41	111.2	5.97	113.0	6.56	117.3	6.74	120.4	6.79
	85	87.3	3.66	103.7	4.65	108.1	5.78	109.9	6.37	111.2	6.96	115.5	7.02	118.6	7.07
	90	87.3	4.15	101.9	5.29	105.0	6.56	106.4	7.25	108.1	7.50	112.3	7.56	115.5	7.64
	95	88.2	4.40	101.2	5.63	104.4	7.00	106.1	7.74	107.5	7.77	111.7	7.84	114.9	7.92
	100	88.2	4.76	99.4	6.09	102.6	7.59	104.4	8.15	105.7	8.19	110.4	8.27	113.5	8.34
	105	88.2	5.37	96.8	6.89	99.9	8.56	101.4	8.76	103.0	8.80	106.5	8.88	108.1	8.97
	110	88.2	6.03	92.7	7.76	96.6	9.34	96.9	9.38	98.4	9.41	100.4	9.51	100.8	9.60
	115	87.8	6.98	89.4	8.93	89.4	9.84	89.4	9.84	89.4	9.84	90.7	9.86	91.1	9.88
	118	76.3	5.91	77.7	7.56	77.8	8.28	77.8	8.35	77.8	8.35	78.9	8.37	78.6	8.38
	122	61.0	4.48	62.3	5.75	62.0	6.30	62.2	6.32	62.3	6.32	63.4	6.34	63.3	6.37
120	23	79.4	2.53	94.8	3.06	110.2	3.62	118.1	3.91	123.3	4.20	128.9	4.82	131.6	4.99
	25	79.4	2.54	94.8	3.08	110.2	3.64	118.1	3.93	123.3	4.23	128.9	4.85	131.6	5.02
	30	79.4	2.57	94.8	3.11	110.2	3.68	118.1	3.98	123.3	4.28	128.9	4.90	131.6	5.08
	35	79.4	2.61	94.8	3.15	110.2	3.73	118.1	4.03	123.3	4.33	128.9	4.96	131.6	5.14
	40	79.4	2.64	94.8	3.19	110.2	3.77	118.1	4.08	123.3	4.39	128.9	5.03	131.6	5.20
	45	79.4	2.67	94.8	3.23	110.2	3.82	118.1	4.13	123.3	4.44	128.9	5.08	131.6	5.26
	50	79.4	2.70	94.8	3.26	110.2	3.86	118.1	4.17	123.3	4.49	128.9	5.14	131.6	5.32
	55	79.4	2.74	94.8	3.32	110.2	3.93	118.1	4.26	122.0	4.58	127.1	5.23	130.3	5.36
	60	79.4	2.83	94.8	3.44	110.2	4.10	117.2	4.43	118.5	4.75	124.0	5.39	126.7	5.49
	65	79.4	2.89	94.8	3.52	110.2	4.17	115.4	4.52	117.2	4.84	122.2	5.57	125.3	5.62
	70	79.4	2.84	94.8	3.45	110.2	4.24	113.2	4.66	114.6	5.12	120.0	5.69	122.7	5.74
	75	79.4	2.91	94.8	3.67	110.2	4.54	111.5	5.01	113.2	5.49	118.2	5.96	121.3	6.00
	80	79.4	3.30	94.8	4.18	107.1	5.19	108.4	5.73	109.7	6.30	115.1	6.47	117.7	6.52
	85	79.4	3.52	94.8	4.47	105.3	5.54	106.7	6.11	108.4	6.68	113.3	6.74	116.4	6.79
	90	79.4	3.98	94.8	5.08	102.3	6.30	103.6	6.96	104.9	7.20	110.1	7.26	112.8	7.33
	95	80.3	4.23	95.8	5.40	101.6	6.72	102.9	7.43	104.7	7.46	109.5	7.53	112.6	7.60
	100	80.3	4.57	95.8	5.84	99.8	7.29	101.6	7.82	102.9	7.86	108.1	7.94	110.8	8.01
	105	80.3	5.15	94.3	6.62	97.1	8.22	98.7	8.41	100.0	8.45	105.0	8.53	106.7	8.61
	110	80.3	5.79	91.9	7.45	94.9	8.96	95.1	9.01	96.6	9.04	99.6	9.13	99.9	9.21
	115	78.1	6.70	88.5	8.57	88.5	9.45	88.5	9.45	88.5	9.45	90.7	9.47	91.1	9.48
	118	69.7	5.91	77.0	7.26	77.1	7.95	77.1	8.02	77.1	8.02	79.0	8.03	78.6	8.05
	122	55.7	4.48	61.7	5.52	61.4	6.05	61.6	6.06	61.7	6.07	63.4	6.09	63.3	6.11
110	23	73.6	2.32	87.8	2.81	102.0	3.32	109.1	3.59	116.2	3.86	128.0	4.42	130.7	4.57
	25	73.6	2.34	87.8	2.82	102.0	3.34	109.1	3.62	116.2	3.88	128.0	4.44	130.7	4.60
	30	73.6	2.36	87.8	2.86	102.0	3.38	109.1	3.66	116.2	3.93	128.0	4.50	130.7	4.66
	35	73.6	2.40	87.8	2.90	102.0	3.43	109.1	3.71	116.2	3.99	128.0	4.57	130.7	4.73
	40	73.6	2.43	87.8	2.94	102.0	3.48	109.1	3.76	116.2	4.04	128.0	4.63	130.7	4.79
	45	73.6	2.47	87.8	2.99	102.0	3.54	109.1	3.82	116.2	4.11	128.0	4.71	130.7	4.87
	50	73.6	2.51	87.8	3.04	102.0	3.59	109.1	3.89	116.2	4.18	128.0	4.79	130.7	4.95
	55	73.6	2.55	87.8	3.09	102.0	3.66	109.1	3.97	116.2	4.26	126.2	4.87	128.9	4.99
	60	73.6	2.64	87.8	3.21	102.0	3.82	109.1	4.12	116.2	4.43	123.1	5.02	125.8	5.07
	65	73.6	2.69	87.8	3.27	102.0	3.89	109.1	4.20	116.2	4.51	121.2	5.19	124.0	5.23
	70	73.6	2.72	87.8	3.30	102.0	4.07	109.1	4.47	114.0	4.91	119.0	5.45	121.7	5.51
	75	73.6	2.79	87.8	3.52	102.0	4.35	109.1	4.80	112.2	5.26	117.2	5.71	119.9	5.75
	80	72.9	3.17	86.9	4.01	101.0	4.98	106.7	5.49	108.0	6.04	112.8	6.20	115.5	6.25
	85	72.9	3.37	86.9	4.28	101.0	5.32	104.9	5.86	106.2	6.40	111.0	6.46	113.7	6.51
	90	72.9	3.82	86.9	4.87	100.5	6.04	101.8	6.68	103.2	6.91	107.9	6.96	110.6	7.03
	95	72.9	4.05	86.9	5.18	98.8	6.44	100.1	7.12	101.4	7.15	106.1	7.22	108.8	7.29
	100	72.9	4.39	86.9	5.60	97.5	6.99	98.8	7.50	100.1	7.54	104.8	7.61	107.5	7.68
	105	72.9	4.94	86.9	6.34	94.4	7.88	95.7	8.07	97.0	8.11	101.7	8.18	104.3	8.26
	110	72.9	5.55	86.9	7.14	91.5	8.60	91.8	8.64	93.1	8.67	96.0	8.75	96.4	8.83
	115	72.9	6.42	86.9	8.22	87.6	9.06	87.6	9.06	88.0	9.06	89.8	9.08	90.2	9.09
	118	70.4	5.85	75.6	6.96	76.3	7.62	76.3	7.69	76.6	7.69	78.2	7.70	77.8	7.72
	122	56.3	4.44	60.6	5.29	60.8	5.80	60.9	5.81	61.4	5.82	62.8	5.84	62.6	5.86

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN096BT3, ARUN096DT3 / ARUB096BT3, ARUB096DT3

96,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	23	64.7	2.1	77.1	2.54	89.6	3	96	3.25	105.5	3.54	118.3	4.06	124.9	4.22
	25	64.7	2.12	77.1	2.56	89.6	3.03	96	3.28	105.5	3.57	118.3	4.1	124.9	4.27
	30	64.7	2.17	77.1	2.62	89.6	3.1	96	3.35	105.5	3.66	118.3	4.2	124.9	4.36
	35	64.7	2.2	77.1	2.67	89.6	3.15	96	3.41	105.5	3.72	118.3	4.27	124.9	4.43
	40	64.7	2.24	77.1	2.71	89.6	3.2	96	3.46	105.5	3.78	118.3	4.33	124.9	4.5
	45	64.7	2.29	77.1	2.77	89.6	3.27	96	3.54	105.5	3.85	118.3	4.42	124.9	4.6
	50	64.7	2.33	77.1	2.82	89.6	3.34	96	3.61	105.5	3.94	118.3	4.51	124.9	4.69
	55	64.7	2.37	77.1	2.87	89.6	3.4	96	3.68	105.5	4.01	118.3	4.59	123.6	4.76
	60	64.7	2.45	77.1	2.98	89.6	3.54	96	3.83	105.5	4.17	117.9	4.73	120.1	4.85
	65	64.7	2.5	77.1	3.04	89.6	3.61	96	3.9	105.5	4.25	116.1	4.89	118.7	4.99
	70	64.7	2.58	77.1	3.13	89.6	3.85	96	4.24	105.5	4.72	113.9	5.24	116.1	5.33
	75	64.7	2.64	77.1	3.34	89.6	4.12	96	4.55	105.5	5.06	112.1	5.49	114.8	5.56
	80	64.7	3	77.1	3.8	89.6	4.71	96	5.2	105.5	5.81	109	5.96	111.2	6.04
	85	64.7	3.19	77.1	4.06	89.6	5.04	96	5.55	105.1	6.16	107.3	6.21	109.9	6.29
	90	64.7	3.62	77.1	4.61	89.6	5.72	96	6.32	101.5	6.64	104.2	6.69	106.4	6.79
	95	64.7	3.84	77.1	4.91	89.6	6.11	**96**	**6.75**	100.2	6.88	102.4	6.94	105.1	7.04
	100	64.7	4.15	77.1	5.3	89.6	6.6	94.3	7.09	98.5	7.23	101.1	7.3	103.3	7.4
	105	64.7	4.66	77.1	5.97	89.1	7.43	91.7	7.59	95.5	7.75	98	7.82	100.4	7.92
	110	64.7	5.21	77.1	6.7	88.1	8.06	90	8.1	91.9	8.25	93.3	8.33	95	8.45
	115	64.7	5.98	77.1	7.65	83.8	8.44	86.4	8.44	88.6	8.56	89.4	8.58	89.8	8.64
	118	64.7	6.03	67.7	7.18	73.0	7.10	75.2	7.16	77.1	7.27	77.8	7.28	77.5	7.33
	122	55.4	5.46	54.3	5.46	58.2	5.40	60.1	5.41	61.8	5.50	62.5	5.52	62.4	5.57
90	23	58.3	1.88	69.4	2.26	81	2.66	86.6	2.87	92.1	3.09	103.3	3.51	114.4	3.88
	25	58.3	1.9	69.4	2.29	81	2.7	86.6	2.91	92.1	3.13	103.3	3.56	114.4	3.93
	30	58.3	1.96	69.4	2.36	81	2.78	86.6	3	92.1	3.23	103.3	3.66	114.4	4.05
	35	58.3	2.02	69.4	2.43	81	2.86	86.6	3.08	92.1	3.32	103.3	3.77	114.4	4.17
	40	58.3	2.08	69.4	2.5	81	2.95	86.6	3.18	92.1	3.42	103.3	3.89	114.4	4.29
	45	58.3	2.13	69.4	2.56	81	3.02	86.6	3.25	92.1	3.5	103.3	3.98	114.4	4.39
	50	58.3	2.17	69.4	2.61	81	3.08	86.6	3.33	92.1	3.58	103.3	4.07	114.4	4.49
	55	58.3	2.2	69.4	2.66	81	3.14	86.6	3.39	92.1	3.65	103.3	4.15	114.4	4.53
	60	58.3	2.28	69.4	2.76	81	3.26	86.6	3.53	92.1	3.79	103.3	4.31	113.5	4.58
	65	58.3	2.32	69.4	2.82	81	3.33	86.6	3.59	92.1	3.86	103.3	4.39	112.7	4.81
	70	58.3	2.39	69.4	2.9	81	3.45	86.6	3.79	92.1	4.14	103.3	4.89	110.6	5.17
	75	58.3	2.43	69.4	3.03	81	3.69	86.6	4.06	92.1	4.45	103.3	5.1	108.9	5.4
	80	58.3	2.72	69.4	3.43	81	4.21	86.6	4.64	92.1	5.08	103.3	5.64	105.9	5.87
	85	58.3	2.9	69.4	3.66	81	4.51	86.6	4.95	92.1	5.43	102	5.94	104.1	6.11
	90	58.3	3.27	69.4	4.14	81	5.11	86.6	5.63	92.1	6.18	99	6.5	101.1	6.6
	95	58.3	3.49	69.4	4.4	81	5.44	86.6	6.01	92.1	6.6	97.3	6.75	99.4	6.84
	100	58.3	3.6	69.4	4.58	81	5.67	86.6	6.25	92.1	6.74	96	7.04	97.7	7.12
	105	58.3	4.17	69.4	5.32	81	6.41	86.6	6.84	91.1	7.23	93	7.55	94.3	7.64
	110	58.3	4.79	69.4	6.13	81	7.03	86.6	7.38	87.4	7.84	88.6	8.11	89.3	8.2
	115	58.3	5.19	69.4	6.65	75.9	7.41	82.1	7.72	83.2	8.09	84	8.27	84.4	8.37
	118	58.3	5.51	67.7	7.18	66.0	6.23	71.5	6.55	72.5	6.86	73.2	7.01	72.9	7.10
	122	55.4	5.46	54.3	5.46	52.6	4.74	57.1	4.96	58.1	5.20	58.7	5.32	58.6	5.40
80	23	51.9	1.64	61.7	1.96	72	2.3	76.7	2.49	81.9	2.66	91.7	3.05	101.6	3.42
	25	51.9	1.65	61.7	1.98	72	2.32	76.7	2.51	81.9	2.69	91.7	3.08	101.6	3.45
	30	51.9	1.7	61.7	2.04	72	2.39	76.7	2.58	81.9	2.77	91.7	3.17	101.6	3.55
	35	51.9	1.75	61.7	2.1	72	2.46	76.7	2.65	81.9	2.84	91.7	3.26	101.6	3.65
	40	51.9	1.8	61.7	2.15	72	2.53	76.7	2.73	81.9	2.92	91.7	3.35	101.6	3.75
	45	51.9	1.82	61.7	2.18	72	2.57	76.7	2.77	81.9	2.96	91.7	3.4	101.6	3.8
	50	51.9	1.85	61.7	2.21	72	2.6	76.7	2.8	81.9	3	91.7	3.44	101.6	3.85
	55	51.9	1.88	61.7	2.25	72	2.64	76.7	2.85	81.9	3.06	91.7	3.51	101.6	3.92
	60	51.9	1.94	61.7	2.33	72	2.74	76.7	2.95	81.9	3.18	91.7	3.63	101.6	4.08
	65	51.9	1.97	61.7	2.37	72	2.79	76.7	3.01	81.9	3.24	91.7	3.69	101.6	4.17
	70	51.9	2.03	61.7	2.44	72	2.88	76.7	3.1	81.9	3.38	91.7	3.98	101.6	4.61
	75	51.9	2.06	61.7	2.48	72	3.02	76.7	3.31	81.9	3.6	91.7	4.24	101.6	4.86
	80	51.9	2.26	61.7	2.82	72	3.44	76.7	3.76	81.9	4.11	91.7	4.88	101.6	5.43
	85	51.9	2.41	61.7	3	72	3.67	76.7	4.01	81.9	4.4	91.7	5.19	101.6	5.57
	90	51.9	2.71	61.7	3.4	72	4.14	76.7	4.56	81.9	5	91.7	5.71	99.9	5.91
	95	51.9	2.88	61.7	3.6	72	4.43	76.7	4.84	81.9	5.32	91.7	5.91	97.8	6.07
	100	51.9	3.1	61.7	3.88	72	4.77	76.7	5.18	81.9	5.53	91.7	6.15	95.6	6.26
	105	51.9	3.54	61.7	4.44	72	5.31	76.7	5.56	81.9	5.93	90.6	6.39	92.8	6.57
	110	51.9	4.01	61.7	5.06	72	5.64	76.7	5.94	81.9	6.38	87.4	6.63	87.9	6.91
	115	51.9	4.29	61.7	5.41	72	5.82	76.7	6.24	76.7	6.53	77.2	6.78	77.2	7.19
	118	51.9	4.56	61.7	5.75	66.0	6.23	67.4	5.93	66.8	5.54	67.2	5.75	66.6	6.10
	122	51.9	4.93	54.4	5.42	52.6	4.74	53.8	4.48	53.5	4.20	54.0	4.36	53.6	4.63

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN096BT3, ARUN096DT3 / ARUB096BT3, ARUB096DT3 — Cooling Capacity

96,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	45.4	1.44	54	1.7	63	2	67.3	2.15	71.6	2.3	80.1	2.61	89.1	2.94
	25	45.4	1.45	54	1.72	63	2.02	67.3	2.17	71.6	2.32	80.1	2.64	89.1	2.96
	30	45.4	1.49	54	1.77	63	2.07	67.3	2.22	71.6	2.38	80.1	2.71	89.1	3.04
	35	45.4	1.53	54	1.82	63	2.13	67.3	2.28	71.6	2.44	80.1	2.77	89.1	3.13
	40	45.4	1.57	54	1.86	63	2.18	67.3	2.34	71.6	2.5	80.1	2.85	89.1	3.2
	45	45.4	1.59	54	1.89	63	2.21	67.3	2.38	71.6	2.54	80.1	2.9	89.1	3.25
	50	45.4	1.62	54	1.92	63	2.25	67.3	2.42	71.6	2.59	80.1	2.94	89.1	3.31
	55	45.4	1.65	54	1.96	63	2.29	67.3	2.46	71.6	2.63	80.1	3	89.1	3.38
	60	45.4	1.7	54	2.03	63	2.37	67.3	2.55	71.6	2.73	80.1	3.11	89.1	3.51
	65	45.4	1.73	54	2.06	63	2.41	67.3	2.6	71.6	2.78	80.1	3.17	89.1	3.56
	70	45.4	1.77	54	2.12	63	2.48	67.3	2.67	71.6	2.87	80.1	3.28	89.1	3.79
	75	45.4	1.8	54	2.16	63	2.53	67.3	2.77	71.6	3	80.1	3.51	89.1	4.01
	80	45.4	1.94	54	2.38	63	2.88	67.3	3.14	71.6	3.4	80.1	3.88	89.1	4.45
	85	45.4	2.06	54	2.53	63	3.07	67.3	3.35	71.6	3.67	80.1	4.13	89.1	4.64
	90	45.4	2.32	54	2.86	63	3.47	67.3	3.79	71.6	4.14	80.1	4.61	89.1	5.03
	95	45.4	2.45	54	3.04	63	3.69	67.3	4.04	71.6	4.4	80.1	4.84	89.1	5.18
	100	45.4	2.64	54	3.28	63	3.98	67.3	4.36	71.6	4.53	80.1	5.07	89.1	5.33
	105	45.4	3	54	3.74	63	4.39	67.3	4.65	71.6	4.92	80.1	5.34	89.1	5.64
	110	45.4	3.38	54	4.24	63	4.65	67.3	4.93	71.6	5.33	80.1	5.56	86.6	6.07
	115	45.4	3.63	54	4.52	63	4.81	67.3	5.21	71.6	5.49	80.1	5.73	81.6	6.46
	118	45.4	3.85	54.0	4.80	63.0	5.11	67.3	5.52	65.1	5.49	67.2	4.86	66.6	5.48
	122	45.4	4.16	54.0	5.20	56.2	4.88	53.8	4.54	52.2	4.16	54.0	3.69	53.6	4.16
60	23	39	1.23	46.3	1.45	54	1.69	57.4	1.81	61.3	1.94	69	2.2	76.3	2.47
	25	39	1.25	46.3	1.46	54	1.71	57.4	1.83	61.3	1.96	69	2.23	76.3	2.5
	30	39	1.28	46.3	1.51	54	1.75	57.4	1.88	61.3	2.01	69	2.29	76.3	2.57
	35	39	1.31	46.3	1.55	54	1.8	57.4	1.93	61.3	2.07	69	2.34	76.3	2.63
	40	39	1.35	46.3	1.59	54	1.84	57.4	1.98	61.3	2.12	69	2.41	76.3	2.7
	45	39	1.36	46.3	1.6	54	1.86	57.4	2	61.3	2.14	69	2.42	76.3	2.72
	50	39	1.37	46.3	1.61	54	1.88	57.4	2.02	61.3	2.16	69	2.45	76.3	2.75
	55	39	1.39	46.3	1.64	54	1.91	57.4	2.05	61.3	2.19	69	2.49	76.3	2.79
	60	39	1.43	46.3	1.7	54	1.98	57.4	2.13	61.3	2.28	69	2.58	76.3	2.91
	65	39	1.45	46.3	1.73	54	2.02	57.4	2.17	61.3	2.32	69	2.63	76.3	2.96
	70	39	1.49	46.3	1.77	54	2.07	57.4	2.22	61.3	2.38	69	2.71	76.3	3.08
	75	39	1.52	46.3	1.8	54	2.11	57.4	2.27	61.3	2.46	69	2.87	76.3	3.28
	80	39	1.61	46.3	1.97	54	2.36	57.4	2.58	61.3	2.79	69	3.21	76.3	3.7
	85	39	1.72	46.3	2.09	54	2.51	57.4	2.75	61.3	2.99	69	3.38	76.3	3.82
	90	39	1.92	46.3	2.36	54	2.84	57.4	3.1	61.3	3.36	69	3.78	76.3	4.17
	95	39	2.03	46.3	2.5	54	3.02	57.4	3.31	61.3	3.56	69	3.95	76.3	4.39
	100	39	2.18	46.3	2.69	54	3.25	57.4	3.56	61.3	3.72	69	4.19	76.3	4.58
	105	39	2.48	46.3	3.06	54	3.59	57.4	3.8	61.3	4.04	69	4.46	76.3	4.99
	110	39	2.79	46.3	3.48	54	3.87	57.4	4.03	61.3	4.37	69	4.76	76.3	5.44
	115	39	2.99	46.3	3.71	54	4.03	57.4	4.27	61.3	4.52	69	5.04	76.3	5.81
	118	39.0	3.17	46.3	3.94	54.0	4.27	57.4	4.53	61.3	4.81	67.2	4.86	66.6	5.48
	122	39.0	3.41	46.3	4.26	54.0	4.63	53.6	4.60	51.9	4.26	54.0	3.69	53.6	4.16
50	23	32.4	1.08	38.6	1.25	45	1.43	48	1.52	51	1.63	57.4	1.82	63.4	2.03
	25	32.4	1.09	38.6	1.27	45	1.44	48	1.54	51	1.65	57.4	1.84	63.4	2.05
	30	32.4	1.12	38.6	1.3	45	1.49	48	1.58	51	1.69	57.4	1.89	63.4	2.11
	35	32.4	1.15	38.6	1.33	45	1.53	48	1.63	51	1.73	57.4	1.94	63.4	2.16
	40	32.4	1.18	38.6	1.36	45	1.57	48	1.67	51	1.78	57.4	1.99	63.4	2.22
	45	32.4	1.19	38.6	1.38	45	1.59	48	1.69	51	1.8	57.4	2.02	63.4	2.25
	50	32.4	1.21	38.6	1.4	45	1.61	48	1.71	51	1.83	57.4	2.05	63.4	2.28
	55	32.4	1.24	38.6	1.43	45	1.64	48	1.74	51	1.85	57.4	2.09	63.4	2.32
	60	32.4	1.26	38.6	1.47	45	1.69	48	1.8	51	1.92	57.4	2.15	63.4	2.41
	65	32.4	1.28	38.6	1.49	45	1.71	48	1.83	51	1.95	57.4	2.19	63.4	2.45
	70	32.4	1.31	38.6	1.52	45	1.75	48	1.88	51	2	57.4	2.25	63.4	2.52
	75	32.4	1.33	38.6	1.55	45	1.79	48	1.91	51	2.04	57.4	2.29	63.4	2.58
	80	32.4	1.37	38.6	1.64	45	1.92	48	2.07	51	2.23	57.4	2.56	63.4	2.92
	85	32.4	1.46	38.6	1.73	45	2.04	48	2.2	51	2.37	57.4	2.73	63.4	3.12
	90	32.4	1.62	38.6	1.93	45	2.29	48	2.47	51	2.67	57.4	3.08	63.4	3.53
	95	32.4	1.71	38.6	2.05	45	2.42	48	2.63	51	2.83	57.4	3.27	63.4	3.75
	100	32.4	1.8	38.6	2.16	45	2.56	48	2.78	51	3	57.4	3.48	63.4	3.98
	105	32.4	1.97	38.6	2.39	45	2.84	48	3.07	51	3.32	57.4	3.85	63.4	4.43
	110	32.4	2.18	38.6	2.64	45	3.14	48	3.41	51	3.7	57.4	4.3	63.4	4.95
	115	32.4	2.33	38.6	2.83	45	3.38	48	3.67	51	3.98	57.4	4.64	63.4	5.33
	118	32.4	2.52	38.6	3.07	45.0	3.67	48.0	3.99	51.0	4.33	57.4	4.86	63.4	5.48
	122	32.4	2.78	38.6	3.40	45.0	4.06	48.0	4.43	51.0	4.26	54.0	3.69	53.6	4.16

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN121BT3, ARUN121DT3 / ARUB121BT3, ARUB121DT3

121,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	23	109.1	3.38	129.6	4.09	150.7	4.84	156.2	5.23	158.4	5.63	163.9	6.45	167.8	6.67
	25	109.1	3.40	129.6	4.11	150.7	4.87	156.2	5.26	158.4	5.66	163.9	6.49	167.8	6.71
	30	109.1	3.44	129.6	4.17	150.7	4.93	156.2	5.33	158.4	5.73	163.9	6.56	167.8	6.79
	35	109.1	3.48	129.6	4.22	150.7	4.99	156.2	5.39	158.4	5.80	163.9	6.64	167.8	6.87
	40	109.1	3.53	129.6	4.27	150.7	5.05	156.2	5.46	158.4	5.86	163.9	6.72	167.8	6.96
	45	109.1	3.56	129.6	4.31	150.7	5.10	156.2	5.51	158.4	5.92	163.9	6.79	167.8	7.03
	50	109.1	3.60	129.6	4.35	150.7	5.15	156.2	5.57	158.4	5.98	163.9	6.86	167.8	7.10
	55	109.1	3.66	129.6	4.43	150.7	5.25	154.0	5.69	156.2	6.10	161.7	6.98	165.6	7.15
	60	109.1	3.78	129.6	4.59	148.5	5.47	150.6	5.90	152.3	6.34	157.8	7.20	161.7	7.23
	65	109.1	3.86	129.6	4.69	146.2	5.57	148.5	6.02	150.1	6.46	155.5	7.44	159.4	7.50
	70	109.1	3.71	129.6	4.51	143.5	5.55	145.1	6.10	147.3	6.70	152.7	7.44	156.7	7.52
	75	109.1	3.80	129.6	4.81	141.3	5.94	142.9	6.55	145.1	7.18	150.5	7.79	154.4	7.85
	80	109.1	4.32	129.6	5.47	137.4	6.79	139.0	7.50	141.3	8.24	146.6	8.46	150.5	8.54
	85	109.1	4.60	129.6	5.85	135.2	7.26	137.4	8.00	139.0	8.74	144.3	8.81	148.3	8.89
	90	109.1	5.21	127.4	6.64	131.3	8.24	132.9	9.11	135.2	9.43	140.4	9.50	144.3	9.59
	95	110.3	5.53	126.5	7.07	130.4	8.80	132.7	9.72	134.4	9.76	139.7	9.85	143.6	9.95
	100	110.3	5.99	124.3	7.65	128.2	9.53	130.4	10.23	132.1	10.29	138.0	10.38	141.9	10.48
	105	110.3	6.75	121.0	8.65	124.8	10.75	126.8	11.00	128.7	11.06	133.2	11.16	135.1	11.27
	110	110.3	7.58	115.9	9.75	120.8	11.73	121.2	11.79	122.9	11.83	125.5	11.94	126.0	12.06
	115	109.7	8.77	111.7	11.21	111.7	12.37	111.7	12.37	111.7	12.37	113.3	12.39	113.8	12.41
	118	95.4	7.43	97.1	9.50	97.3	10.40	97.3	10.49	97.3	10.49	98.7	10.51	98.3	10.53
	122	76.2	5.63	77.9	7.22	77.5	7.92	77.7	7.93	77.9	7.94	79.2	7.97	79.1	8.00
120	23	99.3	3.18	118.5	3.84	137.7	4.54	147.6	4.91	154.2	5.28	161.2	6.05	164.5	6.26
	25	99.3	3.19	118.5	3.86	137.7	4.57	147.6	4.94	154.2	5.31	161.2	6.09	164.5	6.30
	30	99.3	3.23	118.5	3.91	137.7	4.63	147.6	5.00	154.2	5.38	161.2	6.16	164.5	6.38
	35	99.3	3.28	118.5	3.96	137.7	4.68	147.6	5.07	154.2	5.44	161.2	6.24	164.5	6.45
	40	99.3	3.31	118.5	4.01	137.7	4.74	147.6	5.13	154.2	5.51	161.2	6.32	164.5	6.54
	45	99.3	3.35	118.5	4.05	137.7	4.80	147.6	5.19	154.2	5.57	161.2	6.38	164.5	6.61
	50	99.3	3.39	118.5	4.10	137.7	4.85	147.6	5.24	154.2	5.64	161.2	6.46	164.5	6.68
	55	99.3	3.44	118.5	4.18	137.7	4.94	147.6	5.35	152.5	5.75	158.9	6.57	162.8	6.73
	60	99.3	3.56	118.5	4.32	137.7	5.15	146.5	5.56	148.1	5.97	155.0	6.78	158.4	6.90
	65	99.3	3.63	118.5	4.42	137.7	5.24	144.3	5.67	146.5	6.08	152.8	7.00	156.7	7.06
	70	99.3	3.56	118.5	4.33	137.7	5.33	141.5	5.86	143.2	6.43	150.0	7.14	153.3	7.21
	75	99.3	3.65	118.5	4.61	137.7	5.70	139.4	6.29	141.5	6.89	147.7	7.48	151.7	7.54
	80	99.3	4.15	118.5	5.25	133.9	6.52	135.5	7.20	137.2	7.91	143.8	8.12	147.2	8.19
	85	99.3	4.42	118.5	5.61	131.7	6.97	133.3	7.68	135.5	8.39	141.6	8.46	145.5	8.53
	90	99.3	5.01	118.5	6.38	127.8	7.91	129.5	8.75	131.1	9.05	137.7	9.12	141.0	9.21
	95	100.3	5.31	119.8	6.79	127.0	8.44	128.6	9.33	130.8	9.37	136.8	9.46	140.8	9.55
	100	100.3	5.75	119.8	7.34	124.7	9.15	127.0	9.82	128.6	9.88	135.2	9.97	138.5	10.06
	105	100.3	6.47	117.8	8.31	121.4	10.33	123.4	10.56	125.0	10.62	131.2	10.71	133.4	10.81
	110	100.3	7.27	114.8	9.36	118.6	11.26	118.9	11.32	120.7	11.35	124.4	11.46	124.9	11.57
	115	97.6	8.42	110.6	10.76	110.6	11.87	110.6	11.87	110.6	11.87	113.4	11.89	113.9	11.91
	118	87.1	7.43	96.2	9.12	96.3	9.98	96.3	10.07	96.3	10.07	98.7	10.09	98.3	10.11
	122	69.6	5.63	77.2	6.94	76.8	7.60	77.0	7.62	77.2	7.63	79.3	7.65	79.1	7.68
110	23	92.0	2.92	109.8	3.53	127.5	4.17	136.4	4.51	145.3	4.85	160.0	5.56	163.4	5.74
	25	92.0	2.93	109.8	3.55	127.5	4.20	136.4	4.54	145.3	4.88	160.0	5.58	163.4	5.78
	30	92.0	2.97	109.8	3.59	127.5	4.25	136.4	4.59	145.3	4.94	160.0	5.66	163.4	5.85
	35	92.0	3.01	109.8	3.64	127.5	4.31	136.4	4.66	145.3	5.01	160.0	5.74	163.4	5.94
	40	92.0	3.05	109.8	3.70	127.5	4.37	136.4	4.73	145.3	5.08	160.0	5.82	163.4	6.02
	45	92.0	3.11	109.8	3.75	127.5	4.44	136.4	4.80	145.3	5.16	160.0	5.92	163.4	6.12
	50	92.0	3.16	109.8	3.82	127.5	4.52	136.4	4.88	145.3	5.25	160.0	6.01	163.4	6.22
	55	92.0	3.21	109.8	3.89	127.5	4.60	136.4	4.99	145.3	5.35	157.8	6.12	161.2	6.27
	60	92.0	3.31	109.8	4.03	127.5	4.79	136.4	5.18	145.3	5.56	153.8	6.31	157.2	6.37
	65	92.0	3.38	109.8	4.11	127.5	4.88	136.4	5.28	145.3	5.67	151.6	6.52	154.9	6.57
	70	92.0	3.42	109.8	4.15	127.5	5.11	136.4	5.62	142.5	6.17	148.7	6.85	152.1	6.92
	75	92.0	3.50	109.8	4.42	127.5	5.47	136.4	6.03	140.3	6.61	146.5	7.17	149.9	7.23
	80	91.1	3.98	108.7	5.04	126.2	6.25	133.3	6.90	135.0	7.58	141.0	7.79	144.4	7.86
	85	91.1	4.24	108.7	5.38	126.2	6.68	131.1	7.36	132.8	8.04	138.8	8.11	142.2	8.18
	90	91.1	4.80	108.7	6.11	125.7	7.58	127.3	8.39	129.0	8.68	134.9	8.75	138.3	8.83
	95	91.1	5.09	108.7	6.51	123.5	8.10	125.1	8.95	126.8	8.98	132.7	9.07	136.0	9.16
	100	91.1	5.51	108.7	7.04	121.8	8.78	123.5	9.42	125.1	9.47	131.0	9.56	134.3	9.65
	105	91.1	6.21	108.7	7.96	118.0	9.90	119.7	10.13	121.3	10.18	127.1	10.27	130.4	10.37
	110	91.1	6.97	108.7	8.97	114.4	10.80	114.7	10.85	116.4	10.89	120.0	10.99	120.5	11.10
	115	91.1	8.07	108.7	10.32	109.5	11.38	109.5	11.38	110.0	11.38	112.2	11.40	112.7	11.42
	118	88.0	7.35	94.5	8.75	95.3	9.57	95.3	9.66	95.8	9.66	97.7	9.68	97.3	9.69
	122	70.3	5.58	75.8	6.65	76.0	7.29	76.2	7.30	76.7	7.31	78.4	7.33	78.3	7.36

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN121BT3, ARUN121DT3 / ARUB121BT3, ARUB121DT3 Cooling Capacity

121,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	80.9	2.64	96.4	3.19	112	3.77	120	4.08	131.9	4.45	147.9	5.1	156.2	5.3
	25	80.9	2.66	96.4	3.21	112	3.8	120	4.12	131.9	4.49	147.9	5.15	156.2	5.36
	30	80.9	2.72	96.4	3.3	112	3.9	120	4.21	131.9	4.6	147.9	5.27	156.2	5.48
	35	80.9	2.76	96.4	3.35	112	3.96	120	4.28	131.9	4.67	147.9	5.36	156.2	5.57
	40	80.9	2.81	96.4	3.4	112	4.02	120	4.35	131.9	4.75	147.9	5.44	156.2	5.66
	45	80.9	2.87	96.4	3.48	112	4.1	120	4.44	131.9	4.84	147.9	5.55	156.2	5.77
	50	80.9	2.93	96.4	3.54	112	4.19	120	4.53	131.9	4.94	147.9	5.67	156.2	5.89
	55	80.9	2.98	96.4	3.61	112	4.27	120	4.63	131.9	5.04	147.9	5.77	154.5	5.98
	60	80.9	3.07	96.4	3.74	112	4.45	120	4.81	131.9	5.24	147.3	5.95	150.1	6.09
	65	80.9	3.14	96.4	3.82	112	4.53	120	4.9	131.9	5.34	145.1	6.14	148.4	6.27
	70	80.9	3.24	96.4	3.93	112	4.84	120	5.32	131.9	5.93	142.4	6.59	145.1	6.7
	75	80.9	3.32	96.4	4.19	112	5.18	120	5.71	131.9	6.36	140.2	6.9	143.5	6.98
	80	80.9	3.77	96.4	4.77	112	5.92	120	6.54	131.9	7.29	136.3	7.49	139.1	7.59
	85	80.9	4.01	96.4	5.1	112	6.33	120	6.97	131.3	7.74	134.1	7.8	137.4	7.91
	90	80.9	4.55	96.4	5.79	112	7.19	120	7.95	126.9	8.34	130.2	8.41	133	8.53
	95	80.9	4.82	96.4	6.17	112	7.67	**120**	**8.48**	125.3	8.64	128	8.72	131.3	8.85
	100	80.9	5.21	96.4	6.65	112	8.3	117.9	8.9	123.1	9.09	126.3	9.17	129.2	9.3
	105	80.9	5.85	96.4	7.5	111.4	9.33	114.6	9.54	119.4	9.74	122.5	9.82	125.5	9.96
	110	80.9	6.54	96.4	8.42	110.1	10.13	112.6	10.18	114.8	10.36	116.7	10.46	118.8	10.62
	115	80.9	7.51	96.4	9.61	104.8	10.6	108	10.6	110.7	10.76	111.7	10.78	112.2	10.85
	118	80.9	7.58	84.6	9.02	91.2	8.91	94.0	8.99	96.4	9.13	97.3	9.15	96.9	9.21
	122	69.2	6.86	67.8	6.86	72.7	6.79	75.1	6.80	77.2	6.91	78.1	6.93	78.0	7.00
90	23	72.9	2.36	86.8	2.84	101.3	3.35	108.2	3.61	115.2	3.89	129.1	4.41	143	4.87
	25	72.9	2.39	86.8	2.87	101.3	3.39	108.2	3.65	115.2	3.93	129.1	4.48	143	4.94
	30	72.9	2.46	86.8	2.96	101.3	3.49	108.2	3.76	115.2	4.05	129.1	4.6	143	5.08
	35	72.9	2.54	86.8	3.05	101.3	3.6	108.2	3.88	115.2	4.17	129.1	4.74	143	5.24
	40	72.9	2.61	86.8	3.14	101.3	3.7	108.2	3.99	115.2	4.3	129.1	4.88	143	5.39
	45	72.9	2.67	86.8	3.21	101.3	3.79	108.2	4.09	115.2	4.4	129.1	4.99	143	5.52
	50	72.9	2.73	86.8	3.29	101.3	3.87	108.2	4.18	115.2	4.5	129.1	5.11	143	5.64
	55	72.9	2.76	86.8	3.34	101.3	3.94	108.2	4.26	115.2	4.58	129.1	5.21	143	5.69
	60	72.9	2.86	86.8	3.47	101.3	4.09	108.2	4.43	115.2	4.77	129.1	5.41	141.8	5.76
	65	72.9	2.91	86.8	3.54	101.3	4.18	108.2	4.51	115.2	4.85	129.1	5.51	140.9	6.05
	70	72.9	3	86.8	3.64	101.3	4.33	108.2	4.77	115.2	5.21	129.1	6.15	138.2	6.5
	75	72.9	3.05	86.8	3.81	101.3	4.63	108.2	5.1	115.2	5.59	129.1	6.41	136.1	6.78
	80	72.9	3.42	86.8	4.31	101.3	5.29	108.2	5.83	115.2	6.38	129.1	7.09	132.3	7.38
	85	72.9	3.64	86.8	4.6	101.3	5.66	108.2	6.22	115.2	6.82	127.5	7.47	130.2	7.68
	90	72.9	4.11	86.8	5.21	101.3	6.42	108.2	7.08	115.2	7.77	123.8	8.17	126.4	8.29
	95	72.9	4.38	86.8	5.53	101.3	6.84	108.2	7.55	115.2	8.29	121.6	8.48	124.3	8.6
	100	72.9	4.52	86.8	5.76	101.3	7.12	108.2	7.85	115.2	8.47	120	8.85	122.1	8.94
	105	72.9	5.24	86.8	6.68	101.3	8.06	108.2	8.59	113.9	9.08	116.3	9.48	117.8	9.6
	110	72.9	6.02	86.8	7.71	101.3	8.84	108.2	9.28	109.3	9.85	110.7	10.18	111.6	10.3
	115	72.9	6.52	86.8	8.35	94.8	9.31	102.6	9.7	104.1	10.16	105	10.38	105.5	10.52
	118	72.9	6.92	84.6	9.02	82.6	7.83	89.3	8.23	90.6	8.62	91.4	8.81	91.1	8.92
	122	69.2	6.86	67.8	6.86	65.8	5.96	71.4	6.23	72.6	6.53	73.4	6.68	73.3	6.78
80	23	64.8	2.06	77.1	2.47	90	2.89	95.9	3.12	102.3	3.34	114.6	3.83	127	4.29
	25	64.8	2.08	77.1	2.49	90	2.92	95.9	3.15	102.3	3.38	114.6	3.88	127	4.33
	30	64.8	2.14	77.1	2.56	90	3.01	95.9	3.25	102.3	3.47	114.6	3.99	127	4.46
	35	64.8	2.2	77.1	2.64	90	3.1	95.9	3.33	102.3	3.57	114.6	4.1	127	4.59
	40	64.8	2.26	77.1	2.7	90	3.17	95.9	3.43	102.3	3.67	114.6	4.21	127	4.71
	45	64.8	2.29	77.1	2.74	90	3.22	95.9	3.48	102.3	3.71	114.6	4.27	127	4.77
	50	64.8	2.32	77.1	2.78	90	3.26	95.9	3.52	102.3	3.77	114.6	4.32	127	4.84
	55	64.8	2.36	77.1	2.83	90	3.32	95.9	3.58	102.3	3.84	114.6	4.4	127	4.92
	60	64.8	2.44	77.1	2.92	90	3.44	95.9	3.71	102.3	3.99	114.6	4.56	127	5.12
	65	64.8	2.47	77.1	2.98	90	3.51	95.9	3.78	102.3	4.08	114.6	4.64	127	5.24
	70	64.8	2.54	77.1	3.06	90	3.62	95.9	3.9	102.3	4.24	114.6	5.01	127	5.79
	75	64.8	2.59	77.1	3.12	90	3.79	95.9	4.16	102.3	4.52	114.6	5.32	127	6.11
	80	64.8	2.84	77.1	3.55	90	4.32	95.9	4.72	102.3	5.16	114.6	6.12	127	6.83
	85	64.8	3.03	77.1	3.77	90	4.61	95.9	5.04	102.3	5.52	114.6	6.52	127	7
	90	64.8	3.4	77.1	4.28	90	5.21	95.9	5.72	102.3	6.28	114.6	7.17	124.9	7.42
	95	64.8	3.62	77.1	4.52	90	5.56	95.9	6.08	102.3	6.68	114.6	7.42	122.2	7.62
	100	64.8	3.9	77.1	4.88	90	5.99	95.9	6.51	102.3	6.94	114.6	7.73	119.5	7.87
	105	64.8	4.44	77.1	5.58	90	6.67	95.9	6.99	102.3	7.45	113.3	8.03	116	8.26
	110	64.8	5.04	77.1	6.36	90	7.08	95.9	7.46	102.3	8.02	109.3	8.33	109.8	8.68
	115	64.8	5.39	77.1	6.8	90	7.32	95.9	7.84	95.9	8.21	96.5	8.52	96.5	9.03
	118	64.8	5.73	77.1	7.22	82.6	7.83	84.2	7.45	83.5	6.97	84.0	7.23	83.3	7.66
	122	64.8	6.19	68.1	6.81	65.8	5.96	67.3	5.63	66.9	5.27	67.5	5.48	67.0	5.82

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80°F dry bulb (DB) and 67°F wet bulb (WB), and outdoor ambient conditions of 95°F dry bulb (DB) and 75°F wet bulb (WB).

Product Data

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN121BT3, ARUN121DT3 / ARUB121BT3, ARUB121DT3

121,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	23	56.8	1.81	67.5	2.14	78.8	2.51	84.1	2.7	89.5	2.88	100.2	3.28	111.4	3.69
	25	56.8	1.82	67.5	2.16	78.8	2.54	84.1	2.72	89.5	2.91	100.2	3.32	111.4	3.72
	30	56.8	1.87	67.5	2.22	78.8	2.6	84.1	2.79	89.5	2.99	100.2	3.4	111.4	3.82
	35	56.8	1.92	67.5	2.28	78.8	2.67	84.1	2.87	89.5	3.07	100.2	3.49	111.4	3.93
	40	56.8	1.97	67.5	2.34	78.8	2.74	84.1	2.94	89.5	3.15	100.2	3.58	111.4	4.02
	45	56.8	2	67.5	2.37	78.8	2.78	84.1	2.99	89.5	3.2	100.2	3.64	111.4	4.09
	50	56.8	2.04	67.5	2.41	78.8	2.83	84.1	3.04	89.5	3.25	100.2	3.7	111.4	4.16
	55	56.8	2.07	67.5	2.46	78.8	2.87	84.1	3.09	89.5	3.31	100.2	3.77	111.4	4.24
	60	56.8	2.13	67.5	2.54	78.8	2.98	84.1	3.2	89.5	3.43	100.2	3.91	111.4	4.4
	65	56.8	2.17	67.5	2.59	78.8	3.03	84.1	3.26	89.5	3.5	100.2	3.98	111.4	4.48
	70	56.8	2.23	67.5	2.66	78.8	3.12	84.1	3.36	89.5	3.6	100.2	4.12	111.4	4.76
	75	56.8	2.26	67.5	2.71	78.8	3.18	84.1	3.47	89.5	3.77	100.2	4.4	111.4	5.04
	80	56.8	2.44	67.5	2.99	78.8	3.62	84.1	3.95	89.5	4.28	100.2	4.87	111.4	5.59
	85	56.8	2.59	67.5	3.18	78.8	3.85	84.1	4.2	89.5	4.61	100.2	5.19	111.4	5.83
	90	56.8	2.91	67.5	3.59	78.8	4.36	84.1	4.76	89.5	5.21	100.2	5.79	111.4	6.32
	95	56.8	3.07	67.5	3.82	78.8	4.64	84.1	5.08	89.5	5.52	100.2	6.08	111.4	6.51
	100	56.8	3.32	67.5	4.12	78.8	5.01	84.1	5.48	89.5	5.69	100.2	6.37	111.4	6.7
	105	56.8	3.77	67.5	4.7	78.8	5.52	84.1	5.84	89.5	6.18	100.2	6.71	111.4	7.09
	110	56.8	4.24	67.5	5.32	78.8	5.84	84.1	6.2	89.5	6.7	100.2	6.99	108.2	7.62
	115	56.8	4.56	67.5	5.68	78.8	6.04	84.1	6.55	89.5	6.9	100.2	7.2	102	8.11
	118	56.8	4.84	67.5	6.03	78.8	6.42	84.1	6.94	81.4	6.90	84.0	6.11	83.3	6.89
	122	56.8	5.22	67.5	6.53	70.3	6.13	67.2	5.71	65.2	5.22	67.5	4.63	67.0	5.23
60	23	48.8	1.55	57.9	1.82	67.5	2.12	71.8	2.28	76.6	2.44	86.3	2.77	95.4	3.11
	25	48.8	1.57	57.9	1.84	67.5	2.15	71.8	2.3	76.6	2.47	86.3	2.8	95.4	3.14
	30	48.8	1.61	57.9	1.89	67.5	2.2	71.8	2.37	76.6	2.53	86.3	2.87	95.4	3.22
	35	48.8	1.65	57.9	1.94	67.5	2.26	71.8	2.43	76.6	2.59	86.3	2.94	95.4	3.31
	40	48.8	1.69	57.9	1.99	67.5	2.32	71.8	2.49	76.6	2.66	86.3	3.02	95.4	3.39
	45	48.8	1.7	57.9	2.01	67.5	2.33	71.8	2.51	76.6	2.69	86.3	3.04	95.4	3.42
	50	48.8	1.72	57.9	2.03	67.5	2.36	71.8	2.53	76.6	2.71	86.3	3.07	95.4	3.45
	55	48.8	1.74	57.9	2.06	67.5	2.4	71.8	2.58	76.6	2.76	86.3	3.13	95.4	3.51
	60	48.8	1.8	57.9	2.13	67.5	2.49	71.8	2.67	76.6	2.86	86.3	3.24	95.4	3.65
	65	48.8	1.83	57.9	2.17	67.5	2.53	71.8	2.72	76.6	2.91	86.3	3.31	95.4	3.72
	70	48.8	1.87	57.9	2.23	67.5	2.6	71.8	2.79	76.6	2.99	86.3	3.4	95.4	3.86
	75	48.8	1.91	57.9	2.26	67.5	2.65	71.8	2.85	76.6	3.09	86.3	3.6	95.4	4.12
	80	48.8	2.03	57.9	2.47	67.5	2.97	71.8	3.24	76.6	3.51	86.3	4.04	95.4	4.65
	85	48.8	2.16	57.9	2.63	67.5	3.16	71.8	3.45	76.6	3.76	86.3	4.25	95.4	4.8
	90	48.8	2.41	57.9	2.97	67.5	3.57	71.8	3.9	76.6	4.22	86.3	4.75	95.4	5.23
	95	48.8	2.56	57.9	3.14	67.5	3.79	71.8	4.16	76.6	4.47	86.3	4.97	95.4	5.51
	100	48.8	2.74	57.9	3.38	67.5	4.09	71.8	4.48	76.6	4.67	86.3	5.27	95.4	5.75
	105	48.8	3.12	57.9	3.85	67.5	4.51	71.8	4.77	76.6	5.08	86.3	5.6	95.4	6.27
	110	48.8	3.51	57.9	4.37	67.5	4.87	71.8	5.06	76.6	5.49	86.3	5.99	95.4	6.84
	115	48.8	3.76	57.9	4.66	67.5	5.06	71.8	5.36	76.6	5.68	86.3	6.33	95.4	7.3
	118	48.8	3.98	57.9	4.95	67.5	5.37	71.8	5.69	76.6	6.05	84.0	6.11	83.3	6.89
	122	48.8	4.29	57.9	5.35	67.5	5.82	67.0	5.77	64.9	5.35	67.5	4.63	67.0	5.23
50	23	40.5	1.35	48.2	1.57	56.3	1.8	60	1.91	63.8	2.04	71.8	2.29	79.3	2.55
	25	40.5	1.37	48.2	1.59	56.3	1.81	60	1.93	63.8	2.07	71.8	2.31	79.3	2.57
	30	40.5	1.41	48.2	1.63	56.3	1.87	60	1.99	63.8	2.12	71.8	2.38	79.3	2.65
	35	40.5	1.44	48.2	1.67	56.3	1.92	60	2.04	63.8	2.18	71.8	2.44	79.3	2.71
	40	40.5	1.48	48.2	1.71	56.3	1.97	60	2.09	63.8	2.23	71.8	2.5	79.3	2.78
	45	40.5	1.5	48.2	1.74	56.3	1.99	60	2.12	63.8	2.26	71.8	2.54	79.3	2.82
	50	40.5	1.52	48.2	1.76	56.3	2.02	60	2.15	63.8	2.3	71.8	2.57	79.3	2.86
	55	40.5	1.55	48.2	1.8	56.3	2.06	60	2.18	63.8	2.33	71.8	2.62	79.3	2.91
	60	40.5	1.59	48.2	1.84	56.3	2.12	60	2.27	63.8	2.41	71.8	2.7	79.3	3.03
	65	40.5	1.6	48.2	1.88	56.3	2.15	60	2.3	63.8	2.44	71.8	2.75	79.3	3.07
	70	40.5	1.65	48.2	1.91	56.3	2.2	60	2.36	63.8	2.51	71.8	2.83	79.3	3.17
	75	40.5	1.67	48.2	1.94	56.3	2.25	60	2.4	63.8	2.56	71.8	2.88	79.3	3.24
	80	40.5	1.72	48.2	2.06	56.3	2.41	60	2.61	63.8	2.8	71.8	3.22	79.3	3.67
	85	40.5	1.83	48.2	2.17	56.3	2.56	60	2.77	63.8	2.98	71.8	3.43	79.3	3.92
	90	40.5	2.04	48.2	2.43	56.3	2.88	60	3.11	63.8	3.35	71.8	3.87	79.3	4.43
	95	40.5	2.15	48.2	2.57	56.3	3.04	60	3.3	63.8	3.56	71.8	4.11	79.3	4.71
	100	40.5	2.27	48.2	2.72	56.3	3.22	60	3.5	63.8	3.77	71.8	4.37	79.3	5
	105	40.5	2.48	48.2	3	56.3	3.56	60	3.86	63.8	4.17	71.8	4.84	79.3	5.56
	110	40.5	2.73	48.2	3.32	56.3	3.95	60	4.29	63.8	4.64	71.8	5.41	79.3	6.21
	115	40.5	2.93	48.2	3.56	56.3	4.24	60	4.61	63.8	5	71.8	5.83	79.3	6.7
	118	40.5	3.16	48.2	3.86	56.3	4.61	60.0	5.02	63.8	5.44	71.8	6.11	79.3	6.89
	122	40.5	3.49	48.2	4.27	56.3	5.10	60.0	5.57	63.8	5.35	67.5	4.63	67.0	5.23

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN144BT3, ARUN144DT3 / ARUB144BT3, ARUB144DT3 Cooling Capacity

144,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	130.9	4.08	155.5	4.94	180.8	5.84	187.4	6.32	190.1	6.79	196.7	7.79	201.4	8.06
	25	130.9	4.10	155.5	4.97	180.8	5.88	187.4	6.35	190.1	6.84	196.7	7.84	201.4	8.11
	30	130.9	4.16	155.5	5.03	180.8	5.95	187.4	6.43	190.1	6.92	196.7	7.93	201.4	8.20
	35	130.9	4.20	155.5	5.10	180.8	6.02	187.4	6.50	190.1	7.00	196.7	8.02	201.4	8.30
	40	130.9	4.26	155.5	5.15	180.8	6.09	187.4	6.59	190.1	7.08	196.7	8.12	201.4	8.40
	45	130.9	4.30	155.5	5.20	180.8	6.16	187.4	6.66	190.1	7.15	196.7	8.20	201.4	8.48
	50	130.9	4.35	155.5	5.26	180.8	6.22	187.4	6.72	190.1	7.23	196.7	8.28	201.4	8.57
	55	130.9	4.42	155.5	5.35	180.8	6.34	184.8	6.87	187.4	7.37	194.0	8.43	198.7	8.63
	60	130.9	4.56	155.5	5.55	178.1	6.60	180.7	7.13	182.8	7.66	189.3	8.69	194.0	8.73
	65	130.9	4.66	155.5	5.67	175.5	6.72	178.1	7.27	180.1	7.80	186.6	8.98	191.3	9.05
	70	130.9	4.48	155.5	5.44	172.2	6.70	174.2	7.37	176.8	8.09	183.3	8.99	188.0	9.07
	75	130.9	4.59	155.5	5.80	169.5	7.17	171.5	7.91	174.2	8.67	180.6	9.41	185.3	9.48
	80	130.9	5.22	155.5	6.61	164.8	8.20	166.8	9.05	169.5	9.95	175.9	10.22	180.6	10.31
	85	130.9	5.56	155.5	7.06	162.2	8.76	164.8	9.66	166.8	10.55	173.2	10.64	177.9	10.73
	90	130.9	6.30	152.9	8.02	157.5	9.95	159.5	11.00	162.2	11.38	168.5	11.47	173.2	11.58
	95	132.3	6.68	151.8	8.54	156.5	10.62	159.2	11.74	161.2	11.79	167.6	11.90	172.3	12.01
	100	132.3	7.23	149.1	9.23	153.8	11.51	156.5	12.36	158.5	12.43	165.6	12.54	170.3	12.65
	105	132.3	8.15	145.1	10.45	149.8	12.99	152.1	13.29	154.4	13.36	159.8	13.48	162.1	13.61
	110	132.3	9.15	139.1	11.77	144.9	14.16	145.4	14.23	147.5	14.28	150.6	14.42	151.2	14.56
	115	131.7	10.59	134.1	13.54	134.1	14.93	134.1	14.93	134.1	14.93	136.0	14.96	136.6	14.99
	118	114.5	8.97	116.6	11.47	116.7	12.56	116.7	12.67	116.7	12.67	118.4	12.69	117.9	12.72
	122	91.5	6.80	93.5	8.72	93.0	9.56	93.3	9.58	93.5	9.59	95.1	9.62	94.9	9.66
120	23	119.2	3.83	142.2	4.64	165.2	5.49	177.1	5.93	185.0	6.38	193.4	7.31	197.4	7.56
	25	119.2	3.86	142.2	4.67	165.2	5.52	177.1	5.96	185.0	6.42	193.4	7.36	197.4	7.61
	30	119.2	3.90	142.2	4.72	165.2	5.59	177.1	6.04	185.0	6.49	193.4	7.44	197.4	7.70
	35	119.2	3.96	142.2	4.78	165.2	5.65	177.1	6.12	185.0	6.57	193.4	7.53	197.4	7.79
	40	119.2	4.00	142.2	4.84	165.2	5.73	177.1	6.19	185.0	6.66	193.4	7.63	197.4	7.89
	45	119.2	4.05	142.2	4.89	165.2	5.79	177.1	6.27	185.0	6.73	193.4	7.71	197.4	7.98
	50	119.2	4.09	142.2	4.95	165.2	5.86	177.1	6.33	185.0	6.81	193.4	7.80	197.4	8.07
	55	119.2	4.16	142.2	5.04	165.2	5.97	177.1	6.47	183.0	6.94	190.7	7.94	195.4	8.13
	60	119.2	4.30	142.2	5.22	165.2	6.22	175.8	6.71	177.8	7.21	186.0	8.18	190.0	8.33
	65	119.2	4.39	142.2	5.34	165.2	6.33	173.1	6.85	175.8	7.35	183.3	8.46	188.0	8.52
	70	119.2	4.30	142.2	5.23	165.2	6.43	169.9	7.08	171.8	7.77	180.0	8.63	184.0	8.71
	75	119.2	4.41	142.2	5.57	165.2	6.88	167.2	7.59	169.9	8.32	177.3	9.03	182.0	9.10
	80	119.2	5.01	142.2	6.35	160.6	7.87	162.6	8.69	164.6	9.55	172.6	9.81	176.6	9.89
	85	119.2	5.33	142.2	6.78	158.0	8.41	160.0	9.27	162.6	10.13	169.9	10.22	174.6	10.30
	90	119.2	6.04	142.2	7.70	153.4	9.55	155.4	10.56	157.3	10.93	165.2	11.01	169.2	11.12
	95	120.4	6.41	143.7	8.20	152.3	10.20	154.3	11.27	157.0	11.31	164.2	11.42	169.0	11.53
	100	120.4	6.94	143.7	8.86	149.7	11.05	152.3	11.86	154.3	11.93	162.2	12.04	166.3	12.15
	105	120.4	7.82	141.4	10.04	145.7	12.47	148.1	12.75	150.0	12.82	157.5	12.94	160.1	13.06
	110	120.4	8.78	137.8	11.30	142.3	13.60	142.7	13.67	144.8	13.71	149.3	13.84	149.9	13.98
	115	117.1	10.16	132.8	13.00	132.8	14.34	132.8	14.34	132.8	14.34	136.0	14.36	136.6	14.39
	118	104.5	8.97	115.4	11.01	115.6	12.05	115.6	12.16	115.6	12.16	118.4	12.18	117.9	12.21
	122	83.5	6.80	92.6	8.37	92.1	9.18	92.4	9.20	92.6	9.21	95.1	9.24	94.9	9.28
110	23	110.4	3.52	131.7	4.26	153.0	5.04	163.7	5.45	174.3	5.85	192.0	6.71	196.1	6.93
	25	110.4	3.54	131.7	4.28	153.0	5.07	163.7	5.48	174.3	5.89	192.0	6.74	196.1	6.97
	30	110.4	3.59	131.7	4.34	153.0	5.13	163.7	5.55	174.3	5.96	192.0	6.83	196.1	7.06
	35	110.4	3.64	131.7	4.40	153.0	5.20	163.7	5.63	174.3	6.05	192.0	6.93	196.1	7.18
	40	110.4	3.69	131.7	4.46	153.0	5.28	163.7	5.71	174.3	6.13	192.0	7.03	196.1	7.26
	45	110.4	3.75	131.7	4.53	153.0	5.36	163.7	5.80	174.3	6.23	192.0	7.15	196.1	7.39
	50	110.4	3.81	131.7	4.61	153.0	5.45	163.7	5.89	174.3	6.34	192.0	7.26	196.1	7.51
	55	110.4	3.87	131.7	4.69	153.0	5.56	163.7	6.02	174.3	6.46	189.3	7.39	193.4	7.57
	60	110.4	4.00	131.7	4.86	153.0	5.79	163.7	6.25	174.3	6.72	184.6	7.62	188.6	7.69
	65	110.4	4.08	131.7	4.97	153.0	5.89	163.7	6.38	174.3	6.84	181.9	7.87	185.9	7.94
	70	110.4	4.13	131.7	5.01	153.0	6.17	163.7	6.79	171.0	7.45	178.5	8.27	182.5	8.35
	75	110.4	4.23	131.7	5.34	153.0	6.60	163.7	7.28	168.3	7.98	175.8	8.66	179.8	8.72
	80	109.3	4.81	130.4	6.08	151.5	7.55	160.0	8.33	162.0	9.16	169.3	9.41	173.3	9.49
	85	109.3	5.12	130.4	6.50	151.5	8.06	157.4	8.89	159.4	9.71	166.6	9.80	170.6	9.88
	90	109.3	5.80	130.4	7.38	150.8	9.16	152.8	10.13	154.7	10.48	161.9	10.56	165.9	10.66
	95	109.3	6.15	130.4	7.86	148.2	9.78	150.1	10.81	152.1	10.85	159.2	10.95	163.2	11.06
	100	109.3	6.65	130.4	8.50	146.2	10.60	148.2	11.38	150.1	11.44	157.2	11.54	161.2	11.65
	105	109.3	7.50	130.4	9.61	141.6	11.96	143.6	12.24	145.5	12.30	152.5	12.41	156.4	12.53
	110	109.3	8.42	130.4	10.84	137.2	13.04	137.7	13.10	139.7	13.15	144.0	13.27	144.6	13.40
	115	109.3	9.74	130.4	12.46	131.4	13.75	131.4	13.75	132.0	13.75	134.6	13.77	135.2	13.79
	118	105.6	8.88	113.4	10.56	114.4	11.56	114.4	11.66	114.9	11.66	117.2	11.68	116.7	11.70
	122	84.4	6.73	90.9	8.03	91.2	8.80	91.4	8.82	92.1	8.83	94.1	8.86	94.0	8.89

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN144BT3, ARUN144DT3 / ARUB144BT3, ARUB144DT3

144,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	23	97.1	3.18	115.7	3.85	134.4	4.56	144	4.92	158.3	5.37	177.5	6.16	187.4	6.4
	25	97.1	3.21	115.7	3.88	134.4	4.59	144	4.98	158.3	5.42	177.5	6.22	187.4	6.47
	30	97.1	3.29	115.7	3.98	134.4	4.71	144	5.09	158.3	5.55	177.5	6.36	187.4	6.62
	35	97.1	3.34	115.7	4.04	134.4	4.78	144	5.17	158.3	5.64	177.5	6.47	187.4	6.73
	40	97.1	3.4	115.7	4.11	134.4	4.86	144	5.25	158.3	5.73	177.5	6.57	187.4	6.83
	45	97.1	3.47	115.7	4.2	134.4	4.96	144	5.37	158.3	5.85	177.5	6.71	187.4	6.97
	50	97.1	3.54	115.7	4.28	134.4	5.06	144	5.47	158.3	5.97	177.5	6.84	187.4	7.12
	55	97.1	3.6	115.7	4.36	134.4	5.16	144	5.59	158.3	6.09	177.5	6.96	185.4	7.22
	60	97.1	3.71	115.7	4.51	134.4	5.37	144	5.8	158.3	6.33	176.8	7.18	180.1	7.35
	65	97.1	3.79	115.7	4.61	134.4	5.47	144	5.92	158.3	6.45	174.1	7.42	178.1	7.57
	70	97.1	3.91	115.7	4.75	134.4	5.84	144	6.43	158.3	7.16	170.8	7.95	174.1	8.09
	75	97.1	4.01	115.7	5.06	134.4	6.25	144	6.9	158.3	7.68	168.2	8.33	172.2	8.43
	80	97.1	4.55	115.7	5.76	134.4	7.15	144	7.89	158.3	8.81	163.5	9.04	166.9	9.17
	85	97.1	4.85	115.7	6.16	134.4	7.64	144	8.42	157.6	9.34	160.9	9.42	164.9	9.55
	90	97.1	5.49	115.7	7	134.4	8.68	144	9.6	152.3	10.08	156.3	10.16	159.6	10.31
	95	97.1	5.82	115.7	7.45	134.4	9.26	**144**	**10.24**	150.3	10.43	153.6	10.53	157.6	10.68
	100	97.1	6.29	115.7	8.03	134.4	10.02	141.4	10.75	147.7	10.97	151.6	11.07	155	11.23
	105	97.1	7.07	115.7	9.05	133.6	11.26	137.5	11.52	143.3	11.76	147	11.86	150.6	12.02
	110	97.1	7.9	115.7	10.16	132.1	12.23	135.1	12.29	137.8	12.51	140	12.64	142.5	12.82
	115	97.1	9.07	115.7	11.61	125.7	12.8	129.6	12.8	132.8	12.99	134.1	13.02	134.7	13.1
	118	97.1	9.15	101.5	10.89	109.5	10.76	112.8	10.86	115.7	11.02	116.7	11.04	116.3	11.12
	122	83.0	8.29	81.4	8.28	87.2	8.19	90.2	8.21	92.6	8.35	93.7	8.37	93.6	8.45
90	23	87.4	2.85	104.1	3.43	121.5	4.04	129.9	4.36	138.2	4.69	154.9	5.33	171.6	5.88
	25	87.4	2.89	104.1	3.47	121.5	4.1	129.9	4.41	138.2	4.74	154.9	5.41	171.6	5.96
	30	87.4	2.97	104.1	3.57	121.5	4.22	129.9	4.55	138.2	4.89	154.9	5.56	171.6	6.14
	35	87.4	3.06	104.1	3.69	121.5	4.34	129.9	4.68	138.2	5.04	154.9	5.72	171.6	6.33
	40	87.4	3.15	104.1	3.79	121.5	4.47	129.9	4.82	138.2	5.19	154.9	5.9	171.6	6.51
	45	87.4	3.23	104.1	3.88	121.5	4.58	129.9	4.94	138.2	5.31	154.9	6.03	171.6	6.67
	50	87.4	3.3	104.1	3.97	121.5	4.68	129.9	5.05	138.2	5.43	154.9	6.17	171.6	6.81
	55	87.4	3.34	104.1	4.03	121.5	4.76	129.9	5.15	138.2	5.53	154.9	6.29	171.6	6.87
	60	87.4	3.46	104.1	4.19	121.5	4.94	129.9	5.35	138.2	5.76	154.9	6.53	170.2	6.95
	65	87.4	3.52	104.1	4.27	121.5	5.05	129.9	5.45	138.2	5.86	154.9	6.65	169.1	7.3
	70	87.4	3.62	104.1	4.39	121.5	5.23	129.9	5.76	138.2	6.29	154.9	7.42	165.9	7.84
	75	87.4	3.68	104.1	4.6	121.5	5.59	129.9	6.16	138.2	6.75	154.9	7.74	163.3	8.19
	80	87.4	4.13	104.1	5.21	121.5	6.39	129.9	7.04	138.2	7.71	154.9	8.56	158.8	8.91
	85	87.4	4.39	104.1	5.55	121.5	6.84	129.9	7.51	138.2	8.24	153	9.01	156.2	9.28
	90	87.4	4.96	104.1	6.29	121.5	7.75	129.9	8.54	138.2	9.38	148.5	9.87	151.7	10.01
	95	87.4	5.29	104.1	6.67	121.5	8.26	129.9	9.11	138.2	10.01	145.9	10.24	149.1	10.38
	100	87.4	5.46	104.1	6.95	121.5	8.6	129.9	9.47	138.2	10.23	144	10.68	146.6	10.8
	105	87.4	6.33	104.1	8.07	121.5	9.73	129.9	10.37	136.7	10.97	139.5	11.45	141.4	11.59
	110	87.4	7.27	104.1	9.31	121.5	10.67	129.9	11.2	131.1	11.89	132.9	12.3	133.9	12.44
	115	87.4	7.87	104.1	10.09	113.8	11.24	123.1	11.72	124.9	12.27	126	12.54	126.6	12.7
	118	87.4	8.36	101.5	10.89	99.1	9.45	107.2	9.94	108.7	10.41	109.7	10.64	109.3	10.78
	122	83.1	8.29	81.4	8.28	79.0	7.19	85.7	7.52	87.1	7.88	88.1	8.07	88.0	8.19
80	23	77.8	2.49	92.6	2.98	108	3.49	115.1	3.77	122.8	4.04	137.6	4.63	152.4	5.18
	25	77.8	2.51	92.6	3.01	108	3.52	115.1	3.81	122.8	4.09	137.6	4.68	152.4	5.23
	30	77.8	2.58	92.6	3.09	108	3.63	115.1	3.92	122.8	4.2	137.6	4.81	152.4	5.39
	35	77.8	2.65	92.6	3.18	108	3.74	115.1	4.02	122.8	4.31	137.6	4.95	152.4	5.54
	40	77.8	2.73	92.6	3.27	108	3.83	115.1	4.14	122.8	4.43	137.6	5.08	152.4	5.69
	45	77.8	2.76	92.6	3.31	108	3.89	115.1	4.2	122.8	4.49	137.6	5.15	152.4	5.77
	50	77.8	2.8	92.6	3.36	108	3.94	115.1	4.25	122.8	4.55	137.6	5.22	152.4	5.85
	55	77.8	2.84	92.6	3.41	108	4.01	115.1	4.32	122.8	4.64	137.6	5.32	152.4	5.94
	60	77.8	2.94	92.6	3.53	108	4.15	115.1	4.48	122.8	4.82	137.6	5.5	152.4	6.19
	65	77.8	2.99	92.6	3.6	108	4.24	115.1	4.57	122.8	4.92	137.6	5.6	152.4	6.33
	70	77.8	3.07	92.6	3.7	108	4.37	115.1	4.71	122.8	5.12	137.6	6.04	152.4	7
	75	77.8	3.13	92.6	3.77	108	4.58	115.1	5.02	122.8	5.46	137.6	6.43	152.4	7.38
	80	77.8	3.43	92.6	4.28	108	5.22	115.1	5.7	122.8	6.23	137.6	7.4	152.4	8.24
	85	77.8	3.66	92.6	4.55	108	5.56	115.1	6.09	122.8	6.67	137.6	7.88	152.4	8.46
	90	77.8	4.11	92.6	5.16	108	6.29	115.1	6.91	122.8	7.58	137.6	8.66	149.9	8.96
	95	77.8	4.37	92.6	5.46	108	6.71	115.1	7.34	122.8	8.06	137.6	8.96	146.6	9.2
	100	77.8	4.71	92.6	5.89	108	7.24	115.1	7.86	122.8	8.38	137.6	9.33	143.4	9.5
	105	77.8	5.37	92.6	6.74	108	8.06	115.1	8.44	122.8	8.99	135.9	9.7	139.2	9.97
	110	77.8	6.09	92.6	7.68	108	8.55	115.1	9.01	122.8	9.69	131.1	10.06	131.8	10.49
	115	77.8	6.51	92.6	8.21	108	8.83	115.1	9.47	115.1	9.91	115.8	10.28	115.8	10.91
	118	77.8	6.91	92.6	8.72	99.1	9.45	101.1	8.99	100.2	8.41	100.8	8.72	99.9	9.25
	122	77.8	7.48	81.7	8.23	79.0	7.19	80.8	6.80	80.3	6.37	80.9	6.61	80.4	7.03

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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ARUN144BT3, ARUN144DT3 / ARUB144BT3, ARUB144DT3 Cooling Capacity

144,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	68.1	2.18	81	2.59	94.5	3.03	100.9	3.25	107.4	3.48	120.2	3.96	133.7	4.45
	25	68.1	2.2	81	2.61	94.5	3.06	100.9	3.29	107.4	3.51	120.2	4	133.7	4.5
	30	68.1	2.26	81	2.68	94.5	3.14	100.9	3.37	107.4	3.61	120.2	4.1	133.7	4.61
	35	68.1	2.32	81	2.75	94.5	3.23	100.9	3.46	107.4	3.71	120.2	4.21	133.7	4.74
	40	68.1	2.38	81	2.82	94.5	3.3	100.9	3.55	107.4	3.8	120.2	4.32	133.7	4.86
	45	68.1	2.42	81	2.87	94.5	3.36	100.9	3.61	107.4	3.86	120.2	4.39	133.7	4.94
	50	68.1	2.46	81	2.92	94.5	3.41	100.9	3.67	107.4	3.93	120.2	4.47	133.7	5.02
	55	68.1	2.5	81	2.97	94.5	3.47	100.9	3.73	107.4	4	120.2	4.55	133.7	5.12
	60	68.1	2.57	81	3.07	94.5	3.6	100.9	3.87	107.4	4.14	120.2	4.72	133.7	5.32
	65	68.1	2.62	81	3.13	94.5	3.66	100.9	3.94	107.4	4.22	120.2	4.81	133.7	5.4
	70	68.1	2.69	81	3.21	94.5	3.77	100.9	4.05	107.4	4.35	120.2	4.98	133.7	5.75
	75	68.1	2.73	81	3.27	94.5	3.84	100.9	4.2	107.4	4.55	120.2	5.32	133.7	6.08
	80	68.1	2.94	81	3.61	94.5	4.37	100.9	4.76	107.4	5.16	120.2	5.88	133.7	6.75
	85	68.1	3.13	81	3.84	94.5	4.65	100.9	5.08	107.4	5.56	120.2	6.27	133.7	7.03
	90	68.1	3.51	81	4.34	94.5	5.26	100.9	5.75	107.4	6.29	120.2	6.99	133.7	7.63
	95	68.1	3.71	81	4.61	94.5	5.6	100.9	6.13	107.4	6.67	120.2	7.35	133.7	7.86
	100	68.1	4.01	81	4.98	94.5	6.04	100.9	6.61	107.4	6.87	120.2	7.69	133.7	8.09
	105	68.1	4.55	81	5.67	94.5	6.67	100.9	7.06	107.4	7.46	120.2	8.1	133.7	8.56
	110	68.1	5.12	81	6.43	94.5	7.05	100.9	7.48	107.4	8.09	120.2	8.44	129.9	9.2
	115	68.1	5.5	81	6.86	94.5	7.3	100.9	7.91	107.4	8.33	120.2	8.69	122.4	9.8
	118	68.1	5.84	81.0	7.28	94.5	7.75	100.9	8.38	97.7	8.33	100.8	7.38	99.9	8.31
	122	68.1	6.30	81.0	7.89	84.3	7.40	80.6	6.89	78.2	6.31	80.9	5.59	80.4	6.32
60	23	58.5	1.87	69.4	2.2	81	2.56	86.1	2.75	91.9	2.94	103.5	3.34	114.4	3.75
	25	58.5	1.89	69.4	2.22	81	2.59	86.1	2.78	91.9	2.98	103.5	3.38	114.4	3.79
	30	58.5	1.94	69.4	2.28	81	2.66	86.1	2.86	91.9	3.06	103.5	3.47	114.4	3.89
	35	58.5	1.99	69.4	2.34	81	2.72	86.1	2.93	91.9	3.13	103.5	3.55	114.4	3.99
	40	58.5	2.04	69.4	2.4	81	2.8	86.1	3.01	91.9	3.22	103.5	3.65	114.4	4.1
	45	58.5	2.06	69.4	2.43	81	2.82	86.1	3.03	91.9	3.25	103.5	3.68	114.4	4.13
	50	58.5	2.08	69.4	2.45	81	2.84	86.1	3.06	91.9	3.27	103.5	3.71	114.4	4.17
	55	58.5	2.1	69.4	2.49	81	2.9	86.1	3.11	91.9	3.33	103.5	3.78	114.4	4.24
	60	58.5	2.18	69.4	2.57	81	3	86.1	3.23	91.9	3.46	103.5	3.91	114.4	4.41
	65	58.5	2.2	69.4	2.62	81	3.06	86.1	3.29	91.9	3.51	103.5	4	114.4	4.49
	70	58.5	2.26	69.4	2.69	81	3.14	86.1	3.37	91.9	3.61	103.5	4.11	114.4	4.66
	75	58.5	2.3	69.4	2.73	81	3.2	86.1	3.44	91.9	3.73	103.5	4.35	114.4	4.97
	80	58.5	2.45	69.4	2.99	81	3.58	86.1	3.91	91.9	4.24	103.5	4.88	114.4	5.61
	85	58.5	2.6	69.4	3.17	81	3.81	86.1	4.17	91.9	4.54	103.5	5.13	114.4	5.79
	90	58.5	2.92	69.4	3.58	81	4.31	86.1	4.71	91.9	5.1	103.5	5.74	114.4	6.32
	95	58.5	3.09	69.4	3.8	81	4.58	86.1	5.02	91.9	5.4	103.5	6	114.4	6.66
	100	58.5	3.31	69.4	4.08	81	4.94	86.1	5.4	91.9	5.64	103.5	6.36	114.4	6.94
	105	58.5	3.77	69.4	4.65	81	5.45	86.1	5.77	91.9	6.13	103.5	6.76	114.4	7.57
	110	58.5	4.24	69.4	5.28	81	5.88	86.1	6.12	91.9	6.63	103.5	7.23	114.4	8.25
	115	58.5	4.54	69.4	5.63	81	6.11	86.1	6.47	91.9	6.86	103.5	7.64	114.4	8.82
	118	58.5	4.80	69.4	5.97	81.0	6.48	86.1	6.87	91.9	7.30	100.8	7.38	99.9	8.31
	122	58.5	5.18	69.4	6.46	81.0	7.03	80.5	6.97	77.9	6.46	80.9	5.59	80.4	6.32
50	23	48.6	1.63	57.9	1.89	67.5	2.17	72	2.31	76.5	2.47	86.1	2.76	95.1	3.07
	25	48.6	1.65	57.9	1.92	67.5	2.19	72	2.33	76.5	2.5	86.1	2.79	95.1	3.1
	30	48.6	1.7	57.9	1.97	67.5	2.26	72	2.4	76.5	2.56	86.1	2.87	95.1	3.19
	35	48.6	1.74	57.9	2.02	67.5	2.31	72	2.47	76.5	2.63	86.1	2.95	95.1	3.28
	40	48.6	1.79	57.9	2.07	67.5	2.37	72	2.53	76.5	2.7	86.1	3.02	95.1	3.36
	45	48.6	1.81	57.9	2.1	67.5	2.41	72	2.56	76.5	2.73	86.1	3.06	95.1	3.41
	50	48.6	1.84	57.9	2.13	67.5	2.44	72	2.6	76.5	2.77	86.1	3.11	95.1	3.46
	55	48.6	1.88	57.9	2.17	67.5	2.48	72	2.64	76.5	2.81	86.1	3.17	95.1	3.52
	60	48.6	1.92	57.9	2.23	67.5	2.56	72	2.74	76.5	2.91	86.1	3.26	95.1	3.65
	65	48.6	1.93	57.9	2.27	67.5	2.6	72	2.77	76.5	2.95	86.1	3.32	95.1	3.71
	70	48.6	1.99	57.9	2.31	67.5	2.66	72	2.85	76.5	3.03	86.1	3.42	95.1	3.83
	75	48.6	2.01	57.9	2.35	67.5	2.72	72	2.89	76.5	3.09	86.1	3.48	95.1	3.91
	80	48.6	2.07	57.9	2.48	67.5	2.91	72	3.15	76.5	3.38	86.1	3.89	95.1	4.44
	85	48.6	2.21	57.9	2.62	67.5	3.09	72	3.34	76.5	3.6	86.1	4.14	95.1	4.73
	90	48.6	2.46	57.9	2.93	67.5	3.48	72	3.75	76.5	4.05	86.1	4.67	95.1	5.35
	95	48.6	2.6	57.9	3.11	67.5	3.67	72	3.99	76.5	4.3	86.1	4.96	95.1	5.69
	100	48.6	2.74	57.9	3.28	67.5	3.89	72	4.22	76.5	4.55	86.1	5.28	95.1	6.04
	105	48.6	2.99	57.9	3.62	67.5	4.3	72	4.66	76.5	5.04	86.1	5.85	95.1	6.72
	110	48.6	3.3	57.9	4.01	67.5	4.77	72	5.18	76.5	5.61	86.1	6.53	95.1	7.5
	115	48.6	3.54	57.9	4.3	67.5	5.12	72	5.57	76.5	6.04	86.1	7.04	95.1	8.09
	118	48.6	3.82	57.9	4.66	67.5	5.56	72.0	6.06	76.5	6.57	86.1	7.38	95.1	8.31
	122	48.6	4.22	57.9	5.15	67.5	6.15	72.0	6.72	76.5	6.46	80.9	5.59	80.4	6.32

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN168BT3, ARUN168DT3 / ARUB168BT3, ARUB168DT3

168,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	23	152.8	4.66	181.5	5.64	210.9	6.67	218.7	7.21	221.8	7.75	229.5	8.89	235.0	9.20
	25	152.8	4.68	181.5	5.67	210.9	6.71	218.7	7.25	221.8	7.81	229.5	8.95	235.0	9.25
	30	152.8	4.75	181.5	5.74	210.9	6.79	218.7	7.34	221.8	7.89	229.5	9.05	235.0	9.36
	35	152.8	4.80	181.5	5.82	210.9	6.87	218.7	7.43	221.8	7.99	229.5	9.16	235.0	9.48
	40	152.8	4.86	181.5	5.88	210.9	6.96	218.7	7.52	221.8	8.08	229.5	9.27	235.0	9.59
	45	152.8	4.91	181.5	5.94	210.9	7.03	218.7	7.60	221.8	8.16	229.5	9.37	235.0	9.68
	50	152.8	4.96	181.5	6.00	210.9	7.10	218.7	7.67	221.8	8.25	229.5	9.46	235.0	9.78
	55	152.8	5.04	181.5	6.11	210.9	7.24	215.6	7.84	218.7	8.41	226.4	9.62	231.8	9.85
	60	152.8	5.21	181.5	6.33	207.8	7.54	210.8	8.14	213.3	8.74	220.9	9.92	226.4	9.96
	65	152.8	5.32	181.5	6.47	204.7	7.67	207.8	8.30	210.2	8.91	217.7	10.25	223.2	10.33
	70	152.8	5.12	181.5	6.22	200.9	7.65	203.2	8.42	206.3	9.23	213.8	10.26	219.3	10.36
	75	152.8	5.24	181.5	6.63	197.8	8.19	200.1	9.03	203.2	9.90	210.7	10.74	216.2	10.82
	80	152.8	5.96	181.5	7.55	192.3	9.36	194.7	10.33	197.8	11.36	205.2	11.66	210.7	11.77
	85	152.8	6.34	181.5	8.06	189.2	10.00	192.3	11.02	194.7	12.05	202.1	12.15	207.6	12.25
	90	152.8	7.19	178.4	9.16	183.8	11.36	186.1	12.56	189.2	12.99	196.6	13.10	202.1	13.22
	95	154.4	7.62	177.1	9.75	182.6	12.12	185.7	13.40	188.1	13.45	195.5	13.58	201.1	13.71
	100	154.4	8.25	174.0	10.54	179.5	13.14	182.6	14.11	185.0	14.18	193.1	14.32	198.7	14.45
	105	154.4	9.30	169.3	11.93	174.8	14.82	177.5	15.17	180.2	15.25	186.4	15.39	189.1	15.53
	110	154.4	10.44	162.3	13.44	169.1	16.17	169.6	16.25	172.1	16.30	175.7	16.46	176.4	16.62
	115	153.6	12.08	156.4	15.46	156.4	17.05	156.4	17.05	156.4	17.05	158.7	17.08	159.4	17.11
	118	133.6	10.24	136.0	13.10	136.2	14.33	136.2	14.46	136.2	14.46	138.2	14.49	137.6	14.52
	122	106.7	7.77	109.1	9.96	108.5	10.91	108.8	10.94	109.1	10.95	110.9	10.98	110.8	11.03
120	23	139.0	4.38	165.9	5.30	192.8	6.26	206.6	6.77	215.8	7.28	225.6	8.34	230.3	8.63
	25	139.0	4.40	165.9	5.33	192.8	6.30	206.6	6.81	215.8	7.33	225.6	8.40	230.3	8.69
	30	139.0	4.46	165.9	5.39	192.8	6.38	206.6	6.89	215.8	7.41	225.6	8.49	230.3	8.79
	35	139.0	4.52	165.9	5.45	192.8	6.45	206.6	6.98	215.8	7.50	225.6	8.60	230.3	8.90
	40	139.0	4.57	165.9	5.53	192.8	6.54	206.6	7.07	215.8	7.60	225.6	8.71	230.3	9.01
	45	139.0	4.62	165.9	5.59	192.8	6.61	206.6	7.15	215.8	7.68	225.6	8.80	230.3	9.11
	50	139.0	4.67	165.9	5.65	192.8	6.68	206.6	7.23	215.8	7.77	225.6	8.90	230.3	9.21
	55	139.0	4.75	165.9	5.76	192.8	6.81	206.6	7.38	213.5	7.92	222.5	9.06	228.0	9.28
	60	139.0	4.90	165.9	5.96	192.8	7.10	205.1	7.67	207.4	8.23	217.0	9.34	221.7	9.51
	65	139.0	5.01	165.9	6.09	192.8	7.23	202.0	7.82	205.1	8.39	213.9	9.65	219.4	9.73
	70	139.0	4.91	165.9	5.97	192.8	7.34	198.2	8.08	200.5	8.86	210.0	9.85	214.7	9.95
	75	139.0	5.03	165.9	6.36	192.8	7.86	195.1	8.67	198.2	9.50	206.8	10.31	212.3	10.39
	80	139.0	5.72	165.9	7.24	187.4	8.99	189.7	9.92	192.0	10.90	201.3	11.20	206.0	11.30
	85	139.0	6.09	165.9	7.74	184.3	9.60	186.6	10.58	189.7	11.57	198.2	11.66	203.7	11.76
	90	139.0	6.90	165.9	8.79	179.0	10.90	181.3	12.06	183.6	12.47	192.7	12.57	197.4	12.70
	95	140.5	7.32	167.7	9.36	177.7	11.64	180.1	12.87	183.2	12.92	191.6	13.04	197.1	13.16
	100	140.5	7.92	167.7	10.12	174.6	12.62	177.7	13.54	180.1	13.62	189.2	13.74	194.0	13.87
	105	140.5	8.92	165.0	11.46	170.0	14.24	172.7	14.56	175.0	14.64	183.7	14.77	186.8	14.90
	110	140.5	10.03	160.8	12.90	166.0	15.52	166.5	15.60	169.0	15.65	174.2	15.80	174.9	15.96
	115	136.6	11.60	154.9	14.84	154.9	16.36	154.9	16.36	154.9	16.36	158.7	16.39	159.4	16.42
	118	122.0	10.24	134.7	12.57	134.9	13.76	134.9	13.89	134.9	13.89	138.2	13.91	137.6	13.94
	122	97.5	7.77	108.0	9.56	107.5	10.48	107.8	10.50	108.0	10.51	111.0	10.54	110.8	10.59
110	23	128.8	4.02	153.7	4.86	178.5	5.75	190.9	6.22	203.4	6.68	224.0	7.66	228.8	7.92
	25	128.8	4.04	153.7	4.89	178.5	5.79	190.9	6.26	203.4	6.72	224.0	7.70	228.8	7.96
	30	128.8	4.09	153.7	4.95	178.5	5.86	190.9	6.33	203.4	6.81	224.0	7.80	228.8	8.06
	35	128.8	4.15	153.7	5.02	178.5	5.94	190.9	6.42	203.4	6.91	224.0	7.92	228.8	8.19
	40	128.8	4.21	153.7	5.09	178.5	6.03	190.9	6.51	203.4	7.00	224.0	8.03	228.8	8.29
	45	128.8	4.28	153.7	5.17	178.5	6.12	190.9	6.62	203.4	7.12	224.0	8.16	228.8	8.44
	50	128.8	4.35	153.7	5.26	178.5	6.22	190.9	6.73	203.4	7.23	224.0	8.29	228.8	8.57
	55	128.8	4.42	153.7	5.36	178.5	6.34	190.9	6.87	203.4	7.38	220.9	8.44	225.6	8.65
	60	128.8	4.57	153.7	5.55	178.5	6.61	190.9	7.14	203.4	7.67	215.3	8.70	220.1	8.78
	65	128.8	4.66	153.7	5.67	178.5	6.73	190.9	7.28	203.4	7.81	212.2	8.99	216.9	9.06
	70	128.8	4.71	153.7	5.72	178.5	7.04	190.9	7.75	199.5	8.50	208.2	9.44	213.0	9.54
	75	128.8	4.83	153.7	6.10	178.5	7.53	190.9	8.31	196.4	9.11	205.0	9.89	209.8	9.96
	80	127.5	5.49	152.1	6.95	176.7	8.62	186.7	9.51	189.0	10.45	197.5	10.74	202.2	10.83
	85	127.5	5.84	152.1	7.42	176.7	9.21	183.6	10.15	185.9	11.09	194.3	11.18	199.0	11.28
	90	127.5	6.62	152.1	8.43	175.9	10.45	178.2	11.56	180.5	11.96	188.8	12.06	193.6	12.17
	95	127.5	7.02	152.1	8.97	172.9	11.16	175.2	12.34	177.5	12.39	185.7	12.50	190.4	12.62
	100	127.5	7.60	152.1	9.70	170.5	12.10	172.9	12.99	175.2	13.06	183.4	13.18	188.1	13.30
	105	127.5	8.56	152.1	10.98	165.2	13.65	167.5	13.97	169.8	14.04	178.0	14.16	182.5	14.30
	110	127.5	9.61	152.1	12.37	160.1	14.89	160.6	14.96	163.0	15.01	168.0	15.15	168.7	15.30
	115	127.5	11.12	152.1	14.23	153.3	15.69	153.3	15.69	154.0	15.69	157.1	15.72	157.8	15.75
	118	123.2	10.14	132.3	12.06	133.5	13.20	133.5	13.31	134.1	13.31	136.8	13.34	136.2	13.36
	122	98.5	7.69	106.1	9.17	106.4	10.05	106.7	10.07	107.4	10.08	109.8	10.11	109.6	10.15

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN168BT3, ARUN168DT3 / ARUB168BT3, ARUB168DT3 Cooling Capacity

168,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	113.3	3.63	135	4.4	156.8	5.2	168	5.62	184.6	6.13	207	7.03	218.6	7.31
	25	113.3	3.66	135	4.43	156.8	5.24	168	5.68	184.6	6.18	207	7.1	218.6	7.39
	30	113.3	3.76	135	4.54	156.8	5.37	168	5.81	184.6	6.34	207	7.27	218.6	7.56
	35	113.3	3.81	135	4.62	156.8	5.46	168	5.9	184.6	6.44	207	7.39	218.6	7.68
	40	113.3	3.88	135	4.69	156.8	5.55	168	6	184.6	6.54	207	7.5	218.6	7.8
	45	113.3	3.96	135	4.79	156.8	5.66	168	6.13	184.6	6.67	207	7.66	218.6	7.96
	50	113.3	4.04	135	4.89	156.8	5.78	168	6.25	184.6	6.82	207	7.81	218.6	8.12
	55	113.3	4.1	135	4.97	156.8	5.89	168	6.38	184.6	6.95	207	7.95	216.3	8.24
	60	113.3	4.24	135	5.15	156.8	6.14	168	6.63	184.6	7.22	206.3	8.2	210.1	8.39
	65	113.3	4.33	135	5.26	156.8	6.25	168	6.76	184.6	7.36	203.2	8.47	207.8	8.64
	70	113.3	4.46	135	5.42	156.8	6.67	168	7.34	184.6	8.17	199.3	9.08	203.2	9.24
	75	113.3	4.57	135	5.78	156.8	7.14	168	7.88	184.6	8.76	196.2	9.51	200.9	9.63
	80	113.3	5.2	135	6.58	156.8	8.17	168	9.01	184.6	10.05	190.8	10.33	194.7	10.47
	85	113.3	5.53	135	7.03	156.8	8.72	168	9.62	183.9	10.67	187.7	10.76	192.4	10.9
	90	113.3	6.27	135	7.99	156.8	9.91	168	10.95	177.7	11.5	182.3	11.59	186.2	11.76
	95	113.3	6.65	135	8.5	156.8	10.57	**168**	**11.69**	175.4	11.91	179.2	12.02	183.9	12.2
	100	113.3	7.18	135	9.17	156.8	11.44	165	12.27	172.4	12.53	176.9	12.64	180.9	12.82
	105	113.3	8.07	135	10.33	155.9	12.86	160.4	13.15	167.2	13.42	171.5	13.54	175.7	13.72
	110	113.3	9.02	135	11.6	154.1	13.96	157.6	14.03	160.8	14.29	163.3	14.42	166.3	14.63
	115	113.3	10.36	135	13.25	146.7	14.61	151.2	14.61	155	14.83	156.4	14.86	157.1	14.96
	118	113.3	10.45	118.4	12.43	127.7	12.29	131.6	12.40	134.9	12.58	136.2	12.61	135.6	12.69
	122	96.9	9.46	95.0	9.45	101.8	9.35	105.2	9.38	108.1	9.53	109.4	9.56	109.2	9.64
90	23	102	3.25	121.5	3.91	141.8	4.61	151.5	4.98	161.3	5.36	180.8	6.08	200.3	6.72
	25	102	3.3	121.5	3.96	141.8	4.68	151.5	5.04	161.3	5.41	180.8	6.17	200.3	6.8
	30	102	3.39	121.5	4.08	141.8	4.81	151.5	5.19	161.3	5.59	180.8	6.35	200.3	7.01
	35	102	3.5	121.5	4.21	141.8	4.96	151.5	5.34	161.3	5.75	180.8	6.53	200.3	7.22
	40	102	3.6	121.5	4.33	141.8	5.11	151.5	5.51	161.3	5.93	180.8	6.73	200.3	7.43
	45	102	3.68	121.5	4.43	141.8	5.23	151.5	5.63	161.3	6.07	180.8	6.89	200.3	7.61
	50	102	3.76	121.5	4.53	141.8	5.34	151.5	5.76	161.3	6.2	180.8	7.04	200.3	7.78
	55	102	3.81	121.5	4.6	141.8	5.43	151.5	5.88	161.3	6.32	180.8	7.18	200.3	7.85
	60	102	3.95	121.5	4.78	141.8	5.64	151.5	6.11	161.3	6.57	180.8	7.46	198.6	7.94
	65	102	4.02	121.5	4.88	141.8	5.76	151.5	6.22	161.3	6.69	180.8	7.6	197.3	8.33
	70	102	4.13	121.5	5.02	141.8	5.97	151.5	6.57	161.3	7.18	180.8	8.47	193.5	8.95
	75	102	4.2	121.5	5.25	141.8	6.39	151.5	7.04	161.3	7.71	180.8	8.84	190.5	9.35
	80	102	4.71	121.5	5.95	141.8	7.29	151.5	8.04	161.3	8.8	180.8	9.77	185.3	10.17
	85	102	5.02	121.5	6.34	141.8	7.8	151.5	8.57	161.3	9.41	178.5	10.29	182.3	10.59
	90	102	5.67	121.5	7.18	141.8	8.85	151.5	9.75	161.3	10.71	173.3	11.26	177	11.43
	95	102	6.04	121.5	7.62	141.8	9.43	151.5	10.4	161.3	11.43	170.3	11.69	174	11.85
	100	102	6.23	121.5	7.94	141.8	9.82	151.5	10.82	161.3	11.68	168	12.19	171	12.33
	105	102	7.22	121.5	9.21	141.8	11.11	151.5	11.84	159.4	12.52	162.8	13.07	165	13.23
	110	102	8.3	121.5	10.62	141.8	12.18	151.5	12.79	153	13.58	155	14.04	156.3	14.2
	115	102	8.99	121.5	11.52	132.8	12.83	143.6	13.38	145.7	14.01	147	14.32	147.7	14.5
	118	102.0	9.54	118.4	12.43	115.6	10.79	125.1	11.35	126.8	11.89	128.0	12.15	127.5	12.30
	122	96.9	9.46	95.0	9.45	92.1	8.21	99.9	8.58	101.6	9.00	102.8	9.21	102.6	9.35
80	23	90.7	2.84	108	3.4	126	3.99	134.3	4.31	143.3	4.61	160.5	5.29	177.8	5.92
	25	90.7	2.86	108	3.44	126	4.02	134.3	4.35	143.3	4.66	160.5	5.34	177.8	5.97
	30	90.7	2.95	108	3.53	126	4.15	134.3	4.48	143.3	4.79	160.5	5.49	177.8	6.15
	35	90.7	3.03	108	3.64	126	4.27	134.3	4.59	143.3	4.92	160.5	5.65	177.8	6.32
	40	90.7	3.11	108	3.73	126	4.38	134.3	4.72	143.3	5.06	160.5	5.8	177.8	6.49
	45	90.7	3.16	108	3.78	126	4.44	134.3	4.79	143.3	5.12	160.5	5.88	177.8	6.58
	50	90.7	3.2	108	3.83	126	4.5	134.3	4.85	143.3	5.2	160.5	5.96	177.8	6.67
	55	90.8	3.25	108	3.9	126	4.58	134.3	4.94	143.3	5.29	160.5	6.07	177.8	6.79
	60	90.8	3.36	108	4.03	126	4.74	134.3	5.11	143.3	5.5	160.5	6.28	177.8	7.06
	65	90.8	3.41	108	4.11	126	4.84	134.3	5.21	143.3	5.62	160.5	6.4	177.8	7.23
	70	90.8	3.51	108	4.22	126	4.98	134.3	5.37	143.3	5.85	160.5	6.9	177.8	7.99
	75	90.8	3.57	108	4.3	126	5.23	134.3	5.73	143.3	6.23	160.5	7.34	177.8	8.42
	80	90.8	3.91	108	4.89	126	5.96	134.3	6.51	143.3	7.11	160.5	8.44	177.8	9.41
	85	90.8	4.17	108	5.2	126	6.35	134.3	6.95	143.3	7.61	160.5	8.99	177.8	9.65
	90	90.8	4.69	108	5.89	126	7.18	134.3	7.89	143.3	8.65	160.5	9.89	174.9	10.23
	95	90.8	4.98	108	6.23	126	7.66	134.3	8.38	143.3	9.21	160.5	10.23	171.1	10.51
	100	90.7	5.37	108	6.72	126	8.26	134.3	8.98	143.3	9.57	160.5	10.65	167.3	10.85
	105	90.7	6.13	108	7.69	126	9.2	134.3	9.63	143.3	10.26	158.6	11.07	162.5	11.39
	110	90.8	6.95	108	8.77	126	9.76	134.3	10.29	143.3	11.06	153	11.48	153.8	11.97
	115	90.8	7.44	108	9.37	126	10.09	134.3	10.81	134.3	11.32	135.1	11.74	135.1	12.45
	118	90.8	7.89	108.0	9.96	115.6	10.79	117.9	10.26	116.9	9.60	117.6	9.96	116.6	10.56
	122	90.8	8.53	95.3	9.39	92.1	8.21	94.2	7.76	93.6	7.27	94.4	7.55	93.9	8.03

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN168BT3, ARUN168DT3 / ARUB168BT3, ARUB168DT3

168,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	23	79.5	2.49	94.5	2.95	110.3	3.46	117.8	3.72	125.3	3.97	140.3	4.52	156	5.08
	25	79.5	2.51	94.5	2.98	110.3	3.5	117.8	3.75	125.3	4.01	140.3	4.57	156	5.13
	30	79.5	2.58	94.5	3.06	110.3	3.58	117.8	3.85	125.3	4.12	140.3	4.69	156	5.27
	35	79.5	2.65	94.5	3.14	110.3	3.68	117.8	3.95	125.3	4.23	140.3	4.8	156	5.41
	40	79.5	2.72	94.5	3.22	110.3	3.77	117.8	4.05	125.3	4.34	140.3	4.93	156	5.55
	45	79.5	2.76	94.5	3.27	110.3	3.83	117.8	4.13	125.3	4.41	140.3	5.02	156	5.63
	50	79.5	2.81	94.5	3.33	110.3	3.9	117.8	4.19	125.3	4.48	140.3	5.1	156	5.73
	55	79.5	2.86	94.5	3.39	110.3	3.96	117.8	4.25	125.3	4.56	140.3	5.2	156	5.85
	60	79.5	2.94	94.5	3.51	110.3	4.11	117.8	4.42	125.3	4.72	140.3	5.39	156	6.07
	65	79.5	2.99	94.5	3.57	110.3	4.17	117.8	4.5	125.3	4.82	140.3	5.49	156	6.17
	70	79.5	3.07	94.5	3.67	110.3	4.3	117.8	4.63	125.3	4.97	140.3	5.68	156	6.56
	75	79.5	3.12	94.5	3.73	110.3	4.38	117.8	4.79	125.3	5.2	140.3	6.07	156	6.95
	80	79.5	3.36	94.5	4.12	110.3	4.98	117.8	5.44	125.3	5.89	140.3	6.72	156	7.7
	85	79.5	3.57	94.5	4.38	110.3	5.31	117.8	5.8	125.3	6.35	140.3	7.15	156	8.03
	90	79.5	4.01	94.5	4.95	110.3	6.01	117.8	6.56	125.3	7.18	140.3	7.98	156	8.72
	95	79.5	4.24	94.5	5.26	110.3	6.4	117.8	7	125.3	7.61	140.3	8.39	156	8.98
	100	79.5	4.58	94.5	5.68	110.3	6.9	117.8	7.55	125.3	7.84	140.3	8.78	156	9.23
	105	79.5	5.19	94.5	6.48	110.3	7.61	117.8	8.05	125.3	8.52	140.3	9.25	156	9.77
	110	79.5	5.85	94.5	7.34	110.3	8.05	117.8	8.54	125.3	9.24	140.3	9.63	151.5	10.51
	115	79.5	6.28	94.5	7.83	110.3	8.33	117.8	9.03	125.3	9.51	140.3	9.92	142.8	11.19
	118	79.5	6.67	94.5	8.31	110.3	8.85	117.8	9.57	114.0	9.51	117.6	8.42	116.6	9.49
	122	79.5	7.20	94.5	9.00	98.4	8.45	94.1	7.87	91.3	7.20	94.4	6.38	93.9	7.21
60	23	68.3	2.13	81	2.51	94.5	2.92	100.5	3.14	107.3	3.36	120.8	3.81	133.5	4.28
	25	68.3	2.16	81	2.54	94.5	2.96	100.5	3.17	107.3	3.4	120.8	3.86	133.5	4.33
	30	68.3	2.21	81	2.61	94.5	3.03	100.5	3.26	107.3	3.49	120.8	3.96	133.5	4.44
	35	68.3	2.27	81	2.68	94.5	3.11	100.5	3.34	107.3	3.58	120.8	4.06	133.5	4.56
	40	68.3	2.33	81	2.75	94.5	3.19	100.5	3.43	107.3	3.67	120.8	4.17	133.5	4.68
	45	68.3	2.35	81	2.77	94.5	3.21	100.5	3.46	107.3	3.71	120.8	4.2	133.5	4.71
	50	68.3	2.37	81	2.79	94.5	3.25	100.5	3.49	107.3	3.73	120.8	4.24	133.5	4.76
	55	68.3	2.4	81	2.84	94.5	3.31	100.5	3.56	107.3	3.8	120.8	4.32	133.5	4.84
	60	68.3	2.48	81	2.94	94.5	3.43	100.5	3.69	107.3	3.95	120.8	4.46	133.5	5.03
	65	68.3	2.52	81	2.99	94.5	3.49	100.5	3.75	107.3	4.01	120.8	4.56	133.5	5.13
	70	68.3	2.58	81	3.07	94.5	3.59	100.5	3.85	107.3	4.12	120.8	4.69	133.5	5.33
	75	68.3	2.63	81	3.12	94.5	3.65	100.5	3.93	107.3	4.25	120.8	4.97	133.5	5.67
	80	68.3	2.79	81	3.41	94.5	4.09	100.5	4.46	107.3	4.84	120.8	5.57	133.5	6.41
	85	68.3	2.97	81	3.62	94.5	4.35	100.5	4.76	107.3	5.18	120.8	5.86	133.5	6.61
	90	68.3	3.33	81	4.09	94.5	4.92	100.5	5.37	107.3	5.82	120.8	6.55	133.5	7.22
	95	68.3	3.52	81	4.34	94.5	5.23	100.5	5.73	107.3	6.16	120.8	6.85	133.5	7.6
	100	68.3	3.78	81	4.66	94.5	5.63	100.5	6.17	107.3	6.44	120.8	7.26	133.5	7.92
	105	68.3	4.3	81	5.31	94.5	6.22	100.5	6.58	107.3	7	120.8	7.72	133.5	8.64
	110	68.3	4.84	81	6.02	94.5	6.71	100.5	6.98	107.3	7.57	120.8	8.25	133.5	9.42
	115	68.3	5.18	81	6.43	94.5	6.97	100.5	7.39	107.3	7.83	120.8	8.72	133.5	10.07
	118	68.3	5.48	81.0	6.82	94.5	7.40	100.5	7.85	107.3	8.34	117.6	8.42	116.6	9.49
	122	68.3	5.91	81.0	7.37	94.5	8.02	93.9	7.96	90.9	7.37	94.4	6.38	93.9	7.21
50	23	56.7	1.86	67.5	2.16	78.8	2.48	84	2.64	89.3	2.82	100.5	3.15	111	3.51
	25	56.7	1.88	67.5	2.19	78.8	2.5	84	2.67	89.3	2.85	100.5	3.19	111	3.54
	30	56.7	1.94	67.5	2.25	78.8	2.58	84	2.74	89.3	2.93	100.5	3.28	111	3.65
	35	56.7	1.99	67.5	2.3	78.8	2.64	84	2.82	89.3	3	100.5	3.37	111	3.74
	40	56.7	2.04	67.5	2.36	78.8	2.71	84	2.88	89.3	3.08	100.5	3.45	111	3.84
	45	56.7	2.07	67.5	2.4	78.8	2.75	84	2.92	89.3	3.12	100.5	3.5	111	3.89
	50	56.7	2.1	67.5	2.43	78.8	2.79	84	2.97	89.3	3.17	100.5	3.55	111	3.95
	55	56.7	2.14	67.5	2.48	78.8	2.83	84	3.01	89.3	3.21	100.5	3.61	111	4.02
	60	56.7	2.19	67.5	2.54	78.8	2.92	84	3.12	89.3	3.32	100.5	3.73	111	4.17
	65	56.7	2.21	67.5	2.59	78.8	2.97	84	3.17	89.3	3.37	100.5	3.79	111	4.24
	70	56.7	2.28	67.5	2.63	78.8	3.03	84	3.26	89.3	3.46	100.5	3.9	111	4.37
	75	56.7	2.3	67.5	2.68	78.8	3.1	84	3.3	89.3	3.52	100.5	3.97	111	4.46
	80	56.7	2.36	67.5	2.83	78.8	3.32	84	3.59	89.3	3.86	100.5	4.44	111	5.06
	85	56.7	2.52	67.5	2.99	78.8	3.52	84	3.81	89.3	4.1	100.5	4.73	111	5.4
	90	56.7	2.81	67.5	3.35	78.8	3.97	84	4.28	89.3	4.62	100.5	5.33	111	6.11
	95	56.7	2.97	67.5	3.55	78.8	4.19	84	4.55	89.3	4.91	100.5	5.67	111	6.49
	100	56.7	3.12	67.5	3.75	78.8	4.44	84	4.82	89.3	5.2	100.5	6.02	111	6.89
	105	56.7	3.41	67.5	4.14	78.8	4.91	84	5.32	89.3	5.75	100.5	6.67	111	7.67
	110	56.7	3.77	67.5	4.57	78.8	5.44	84	5.91	89.3	6.4	100.5	7.45	111	8.57
	115	56.7	4.04	67.5	4.91	78.8	5.85	84	6.36	89.3	6.89	100.5	8.03	111	9.24
	118	56.7	4.36	67.5	5.32	78.8	6.35	84.0	6.91	89.3	7.50	100.5	8.42	111.0	9.49
	122	56.7	4.81	67.5	5.88	78.8	7.03	84.0	7.68	89.3	7.37	94.4	6.38	93.9	7.21

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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LG

ARUN192BT3, ARUN192DT3 / ARUB192BT3, ARUB192DT3 Cooling Capacity

192,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	23	174.6	5.35	207.4	6.48	241.1	7.66	249.9	8.28	253.5	8.90	262.3	10.20	268.5	10.56
	25	174.6	5.38	207.4	6.51	241.1	7.71	249.9	8.33	253.5	8.96	262.3	10.27	268.5	10.62
	30	174.6	5.45	207.4	6.59	241.1	7.80	249.9	8.43	253.5	9.06	262.3	10.39	268.5	10.75
	35	174.6	5.51	207.4	6.68	241.1	7.89	249.9	8.53	253.5	9.17	262.3	10.51	268.5	10.88
	40	174.6	5.58	207.4	6.75	241.1	7.99	249.9	8.63	253.5	9.28	262.3	10.64	268.5	11.01
	45	174.6	5.64	207.4	6.82	241.1	8.07	249.9	8.72	253.5	9.37	262.3	10.75	268.5	11.12
	50	174.6	5.69	207.4	6.89	241.1	8.15	249.9	8.81	253.5	9.47	262.3	10.85	268.5	11.23
	55	174.6	5.79	207.4	7.02	241.1	8.31	246.4	9.00	249.9	9.66	258.7	11.04	265.0	11.31
	60	174.6	5.98	207.4	7.27	237.5	8.65	240.9	9.34	243.7	10.04	252.4	11.39	258.7	11.44
	65	174.6	6.10	207.4	7.43	234.0	8.81	237.5	9.53	240.2	10.23	248.9	11.77	255.1	11.86
	70	174.6	5.87	207.4	7.14	229.5	8.78	232.2	9.66	235.8	10.60	244.4	11.78	250.6	11.89
	75	174.6	6.02	207.4	7.61	226.0	9.40	228.7	10.37	232.2	11.36	240.8	12.33	247.1	12.42
	80	174.6	6.84	207.4	8.66	219.8	10.75	222.5	11.86	226.0	13.04	234.5	13.39	240.8	13.51
	85	174.6	7.28	207.4	9.25	216.3	11.48	219.8	12.66	222.5	13.83	230.9	13.95	237.2	14.07
	90	174.6	8.25	203.8	10.51	210.0	13.04	212.7	14.42	216.3	14.92	224.7	15.03	230.9	15.18
	95	176.5	8.75	202.4	11.19	208.7	13.92	212.3	15.39	215.0	15.45	223.5	15.59	229.8	15.74
	100	176.5	9.47	198.8	12.10	205.1	15.09	208.7	16.19	211.4	16.28	220.7	16.43	227.1	16.58
	105	176.5	10.68	193.5	13.69	199.7	17.02	202.8	17.41	205.9	17.50	213.0	17.66	216.1	17.83
	110	176.5	11.99	185.5	15.43	193.3	18.56	193.8	18.66	196.7	18.72	200.9	18.90	201.6	19.08
	115	175.6	13.87	178.8	17.75	178.8	19.57	178.8	19.57	178.8	19.57	181.3	19.60	182.2	19.64
	118	152.7	11.75	155.4	15.04	155.6	16.46	155.6	16.60	155.6	16.60	157.9	16.63	157.2	16.66
	122	122.0	8.92	124.7	11.43	124.0	12.53	124.4	12.56	124.7	12.57	126.8	12.61	126.6	12.66
120	23	158.9	5.02	189.6	6.08	220.3	7.19	236.1	7.77	246.7	8.36	257.9	9.58	263.2	9.91
	25	158.9	5.05	189.6	6.12	220.3	7.24	236.1	7.82	246.7	8.41	257.9	9.64	263.2	9.97
	30	158.9	5.12	189.6	6.19	220.3	7.32	236.1	7.91	246.7	8.51	257.9	9.75	263.2	10.09
	35	158.9	5.18	189.6	6.26	220.3	7.41	236.1	8.02	246.7	8.61	257.9	9.87	263.2	10.21
	40	158.9	5.24	189.6	6.35	220.3	7.51	236.1	8.11	246.7	8.72	257.9	10.00	263.2	10.34
	45	158.9	5.31	189.6	6.41	220.3	7.59	236.1	8.21	246.7	8.82	257.9	10.10	263.2	10.46
	50	158.9	5.36	189.6	6.49	220.3	7.67	236.1	8.30	246.7	8.92	257.9	10.22	263.2	10.58
	55	158.9	5.45	189.6	6.61	220.3	7.82	236.1	8.47	244.0	9.10	254.3	10.40	260.5	10.66
	60	158.9	5.63	189.6	6.84	220.3	8.15	234.4	8.80	237.0	9.45	248.0	10.73	253.4	10.91
	65	158.9	5.75	189.6	6.99	220.3	8.30	230.9	8.98	234.4	9.63	244.4	11.08	250.7	11.17
	70	158.9	5.64	189.6	6.85	220.3	8.43	226.5	9.27	229.1	10.18	240.0	11.30	245.3	11.42
	75	158.9	5.78	189.6	7.30	220.3	9.02	223.0	9.95	226.5	10.91	236.4	11.84	242.6	11.92
	80	158.9	6.57	189.6	8.32	214.2	10.32	216.8	11.39	219.5	12.52	230.1	12.85	235.5	12.97
	85	158.9	6.99	189.6	8.88	210.7	11.02	213.3	12.15	216.8	13.28	226.5	13.39	232.8	13.50
	90	158.9	7.92	189.6	10.09	204.5	12.52	207.2	13.84	209.8	14.32	220.3	14.43	225.6	14.57
	95	160.6	8.40	191.6	10.74	203.1	13.36	205.8	14.77	209.3	14.83	219.0	14.97	225.3	15.11
	100	160.6	9.09	191.6	11.62	199.6	14.49	203.1	15.55	205.8	15.63	216.2	15.78	221.7	15.92
	105	160.6	10.25	188.6	13.15	194.3	16.35	197.4	16.72	200.0	16.81	209.9	16.95	213.4	17.11
	110	160.6	11.51	183.8	14.81	189.7	17.82	190.3	17.91	193.1	17.97	199.1	18.14	199.9	18.32
	115	156.1	13.32	177.0	17.04	177.0	18.79	177.0	18.79	177.0	18.79	181.4	18.82	182.2	18.85
	118	139.4	11.75	153.9	14.43	154.1	15.80	154.1	15.94	154.1	15.94	157.9	15.97	157.3	16.00
	122	111.4	8.92	123.5	10.98	122.8	12.03	123.2	12.05	123.5	12.07	126.8	12.11	126.6	12.16
110	23	147.2	4.61	175.6	5.58	204.0	6.60	218.2	7.14	232.4	7.67	256.1	8.79	261.5	9.09
	25	147.2	4.64	175.6	5.61	204.0	6.64	218.2	7.19	232.4	7.72	256.1	8.84	261.5	9.14
	30	147.2	4.70	175.6	5.69	204.0	6.72	218.2	7.27	232.4	7.81	256.1	8.96	261.5	9.26
	35	147.2	4.77	175.6	5.77	204.0	6.82	218.2	7.37	232.4	7.93	256.1	9.09	261.5	9.41
	40	147.2	4.83	175.6	5.85	204.0	6.92	218.2	7.48	232.4	8.04	256.1	9.21	261.5	9.52
	45	147.2	4.92	175.6	5.94	204.0	7.03	218.2	7.60	232.4	8.17	256.1	9.37	261.5	9.69
	50	147.2	4.99	175.6	6.04	204.0	7.15	218.2	7.72	232.4	8.30	256.1	9.52	261.5	9.84
	55	147.2	5.08	175.6	6.15	204.0	7.28	218.2	7.89	232.4	8.47	252.4	9.68	257.9	9.93
	60	147.2	5.24	175.6	6.37	204.0	7.59	218.2	8.19	232.4	8.80	246.1	9.99	251.5	10.08
	65	147.2	5.35	175.6	6.51	204.0	7.72	218.2	8.36	232.4	8.97	242.5	10.32	247.9	10.40
	70	147.2	5.41	175.6	6.57	204.0	8.08	218.2	8.89	228.0	9.76	238.0	10.84	243.4	10.95
	75	147.2	5.54	175.6	7.00	204.0	8.65	218.2	9.54	224.4	10.46	234.3	11.35	239.8	11.43
	80	145.7	6.30	173.8	7.97	201.9	9.89	213.4	10.92	216.0	12.00	225.7	12.33	231.1	12.43
	85	145.7	6.70	173.8	8.51	201.9	10.57	209.8	11.65	212.5	12.73	222.1	12.84	227.5	12.95
	90	145.7	7.60	173.8	9.68	201.1	12.00	203.7	13.27	206.3	13.73	215.8	13.84	221.2	13.98
	95	145.7	8.06	173.8	10.30	197.5	12.81	200.2	14.16	202.8	14.22	212.2	14.35	217.6	14.49
	100	145.7	8.72	173.8	11.14	194.9	13.89	197.5	14.91	200.2	14.99	209.6	15.13	214.9	15.27
	105	145.7	9.83	173.8	12.60	188.8	15.67	191.5	16.04	194.1	16.12	203.4	16.26	208.6	16.41
	110	145.7	11.04	173.8	14.20	183.0	17.09	183.5	17.17	186.3	17.23	192.1	17.40	192.8	17.56
	115	145.7	12.77	173.8	16.34	175.2	18.01	175.2	18.01	176.0	18.01	179.5	18.05	180.3	18.08
	118	140.8	11.63	151.2	13.84	152.6	15.15	152.6	15.28	153.2	15.28	156.3	15.31	155.7	15.34
	122	112.5	8.83	121.2	10.52	121.6	11.53	121.9	11.56	122.7	11.57	125.5	11.61	125.3	11.66

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN192BT3, ARUN192DT3 / ARUB192BT3, ARUB192DT3

192,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	129.4	4.17	154.3	5.05	179.1	5.97	192	6.45	211	7.04	236.6	8.07	249.8	8.39
	25	129.4	4.21	154.3	5.09	179.1	6.02	192	6.52	211	7.1	236.6	8.15	249.8	8.48
	30	129.4	4.31	154.3	5.22	179.1	6.17	192	6.67	211	7.28	236.6	8.34	249.8	8.67
	35	129.4	4.37	154.3	5.3	179.1	6.27	192	6.78	211	7.39	236.6	8.48	249.8	8.82
	40	129.4	4.45	154.3	5.38	179.1	6.37	192	6.88	211	7.51	236.6	8.61	249.8	8.95
	45	129.4	4.55	154.3	5.5	179.1	6.5	192	7.03	211	7.66	236.6	8.79	249.8	9.14
	50	129.4	4.64	154.3	5.61	179.1	6.63	192	7.17	211	7.82	236.6	8.97	249.8	9.33
	55	129.4	4.71	154.3	5.71	179.1	6.76	192	7.32	211	7.98	236.6	9.12	247.2	9.46
	60	129.4	4.87	154.3	5.92	179.1	7.04	192	7.61	211	8.29	235.7	9.41	240.1	9.63
	65	129.4	4.97	154.3	6.04	179.1	7.17	192	7.76	211	8.45	232.2	9.72	237.5	9.92
	70	129.4	5.12	154.3	6.22	179.1	7.66	192	8.43	211	9.38	227.8	10.42	232.2	10.61
	75	129.4	5.25	154.3	6.63	179.1	8.2	192	9.04	211	10.06	224.2	10.92	229.5	11.05
	80	129.4	5.97	154.3	7.56	179.1	9.37	192	10.35	211	11.54	218.1	11.85	222.5	12.02
	85	129.4	6.35	154.3	8.07	179.1	10.01	192	11.04	210.1	12.24	214.5	12.35	219.8	12.51
	90	129.4	7.2	154.3	9.17	179.1	11.37	192	12.57	203.1	13.21	208.4	13.31	212.8	13.51
	95	129.4	7.63	154.3	9.76	179.1	12.14	**192**	**13.42**	200.4	13.67	204.8	13.8	210.1	14
	100	129.4	8.24	154.3	10.53	179.1	13.13	188.6	14.09	197	14.38	202.1	14.51	206.7	14.72
	105	129.4	9.26	154.3	11.86	178.2	14.76	183.4	15.1	191	15.41	196	15.54	200.8	15.76
	110	129.4	10.35	154.3	13.32	176.1	16.03	180.1	16.1	183.7	16.4	186.7	16.56	190	16.8
	115	129.4	11.89	154.3	15.21	167.6	16.78	172.8	16.78	177.1	17.03	178.8	17.06	179.6	17.17
	118	129.4	11.99	135.3	14.27	145.9	14.11	150.5	14.23	154.2	14.45	155.7	14.47	155.0	14.57
	122	110.7	10.86	108.5	10.85	116.3	10.74	120.2	10.76	123.5	10.94	125.0	10.97	124.8	11.07
90	23	116.6	3.73	138.9	4.49	162	5.3	173.1	5.71	184.3	6.15	206.6	6.99	228.9	7.71
	25	116.6	3.78	138.9	4.55	162	5.37	173.1	5.78	184.3	6.21	206.6	7.09	228.9	7.81
	30	116.6	3.89	138.9	4.68	162	5.52	173.1	5.96	184.3	6.41	206.6	7.28	228.9	8.04
	35	116.6	4.01	138.9	4.83	162	5.69	173.1	6.13	184.3	6.6	206.6	7.5	228.9	8.29
	40	116.6	4.13	138.9	4.97	162	5.86	173.1	6.32	184.3	6.81	206.6	7.73	228.9	8.53
	45	116.6	4.23	138.9	5.09	162	6	173.1	6.47	184.3	6.96	206.6	7.9	228.9	8.74
	50	116.6	4.32	138.9	5.2	162	6.13	173.1	6.61	184.3	7.12	206.6	8.08	228.9	8.93
	55	116.6	4.37	138.9	5.28	162	6.24	173.1	6.75	184.3	7.25	206.6	8.24	228.9	9.01
	60	116.6	4.53	138.9	5.49	162	6.48	173.1	7.01	184.3	7.54	206.6	8.56	226.9	9.11
	65	116.6	4.61	138.9	5.6	162	6.61	173.1	7.14	184.3	7.68	206.6	8.72	225.4	9.57
	70	116.6	4.75	138.9	5.76	162	6.85	173.1	7.54	184.3	8.24	206.6	9.73	221.1	10.28
	75	116.6	4.83	138.9	6.03	162	7.33	173.1	8.08	184.3	8.85	206.6	10.15	217.7	10.74
	80	116.6	5.41	138.9	6.83	162	8.37	173.1	9.22	184.3	10.1	206.6	11.22	211.7	11.67
	85	116.6	5.76	138.9	7.28	162	8.96	173.1	9.84	184.3	10.8	204	11.81	208.3	12.16
	90	116.6	6.51	138.9	8.24	162	10.16	173.1	11.2	184.3	12.29	198	12.93	202.3	13.12
	95	116.6	6.93	138.9	8.74	162	10.82	173.1	11.94	184.3	13.12	194.6	13.42	198.9	13.6
	100	116.6	7.16	138.9	9.11	162	11.28	173.1	12.42	184.3	13.41	192	14	195.4	14.15
	105	116.6	8.29	138.9	10.57	162	12.75	173.1	13.59	182.2	14.37	186	15	188.5	15.19
	110	116.6	9.53	138.9	12.2	162	13.99	173.1	14.68	174.9	15.58	177.2	16.11	178.6	16.3
	115	116.6	10.32	138.9	13.22	151.7	14.73	164.2	15.36	166.5	16.08	168	16.43	168.8	16.65
	118	116.6	10.96	135.3	14.27	132.1	12.38	142.9	13.03	145.0	13.65	146.3	13.94	145.7	14.12
	122	110.7	10.86	108.5	10.85	105.3	9.43	114.2	9.85	116.1	10.33	117.5	10.57	117.3	10.73
80	23	103.7	3.26	123.4	3.9	144	4.58	153.4	4.94	163.7	5.29	183.4	6.07	203.1	6.79
	25	103.7	3.29	123.4	3.95	144	4.62	153.4	4.99	163.7	5.35	183.4	6.13	203.1	6.86
	30	103.7	3.39	123.4	4.06	144	4.76	153.4	5.14	163.7	5.5	183.4	6.31	203.1	7.06
	35	103.7	3.48	123.4	4.17	144	4.9	153.4	5.27	163.7	5.65	183.4	6.48	203.1	7.26
	40	103.7	3.57	123.4	4.28	144	5.02	153.4	5.42	163.7	5.8	183.4	6.66	203.1	7.45
	45	103.7	3.62	123.4	4.33	144	5.1	153.4	5.5	163.7	5.88	183.4	6.75	203.1	7.56
	50	103.7	3.67	123.4	4.4	144	5.16	153.4	5.57	163.7	5.96	183.4	6.84	203.1	7.66
	55	103.7	3.73	123.4	4.47	144	5.26	153.4	5.67	163.7	6.08	183.4	6.97	203.1	7.79
	60	103.7	3.86	123.4	4.62	144	5.44	153.4	5.87	163.7	6.32	183.4	7.21	203.1	8.11
	65	103.7	3.91	123.4	4.72	144	5.55	153.4	5.98	163.7	6.45	183.4	7.34	203.1	8.29
	70	103.7	4.03	123.4	4.85	144	5.72	153.4	6.17	163.7	6.71	183.4	7.92	203.1	9.17
	75	103.7	4.1	123.4	4.94	144	6	153.4	6.58	163.7	7.16	183.4	8.42	203.1	9.67
	80	103.7	4.49	123.4	5.61	144	6.84	153.4	7.47	163.7	8.16	183.4	9.69	203.1	10.8
	85	103.7	4.79	123.4	5.96	144	7.29	153.4	7.98	163.7	8.74	183.4	10.33	203.1	11.08
	90	103.7	5.39	123.4	6.77	144	8.24	153.4	9.06	163.7	9.93	183.4	11.35	199.8	11.74
	95	103.7	5.72	123.4	7.16	144	8.8	153.4	9.62	163.7	10.57	183.4	11.74	195.5	12.06
	100	103.7	6.17	123.4	7.72	144	9.49	153.4	10.3	163.7	10.99	183.4	12.23	191.1	12.45
	105	103.7	7.03	123.4	8.83	144	10.56	153.4	11.06	163.7	11.78	181.2	12.71	185.7	13.07
	110	103.7	7.98	123.4	10.07	144	11.21	153.4	11.81	163.7	12.69	174.9	13.18	175.7	13.74
	115	103.7	8.54	123.4	10.75	144	11.58	153.4	12.41	153.4	12.99	154.4	13.48	154.4	14.29
	118	103.7	9.06	123.4	11.43	132.1	12.38	134.8	11.78	133.6	11.02	134.4	11.43	133.3	12.13
	122	103.7	9.80	108.9	10.78	105.3	9.43	107.7	8.91	107.0	8.35	107.9	8.67	107.3	9.21

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN192BT3, ARUN192DT3 / ARUB192BT3, ARUB192DT3 Cooling Capacity

192,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	90.9	2.86	108	3.39	126	3.97	134.6	4.27	143.1	4.56	160.3	5.19	178.3	5.84
	25	90.9	2.89	108	3.42	126	4.01	134.6	4.31	143.1	4.6	160.3	5.25	178.3	5.89
	30	90.9	2.96	108	3.51	126	4.11	134.6	4.42	143.1	4.73	160.3	5.38	178.3	6.05
	35	90.9	3.05	108	3.61	126	4.23	134.6	4.54	143.1	4.86	160.3	5.52	178.3	6.21
	40	90.9	3.12	108	3.7	126	4.33	134.6	4.65	143.1	4.98	160.3	5.67	178.3	6.37
	45	90.9	3.17	108	3.76	126	4.4	134.6	4.74	143.1	5.06	160.3	5.76	178.3	6.47
	50	90.9	3.22	108	3.82	126	4.47	134.6	4.81	143.1	5.14	160.3	5.85	178.3	6.58
	55	90.9	3.28	108	3.9	126	4.55	134.6	4.88	143.1	5.24	160.3	5.96	178.3	6.71
	60	90.9	3.37	108	4.03	126	4.72	134.6	5.07	143.1	5.42	160.3	6.19	178.3	6.97
	65	90.9	3.43	108	4.1	126	4.79	134.6	5.16	143.1	5.54	160.3	6.3	178.3	7.08
	70	90.9	3.52	108	4.21	126	4.94	134.6	5.31	143.1	5.7	160.3	6.52	178.3	7.53
	75	90.9	3.58	108	4.29	126	5.03	134.6	5.5	143.1	5.96	160.3	6.97	178.3	7.97
	80	90.9	3.86	108	4.73	126	5.72	134.6	6.24	143.1	6.77	160.3	7.71	178.3	8.84
	85	90.9	4.1	108	5.03	126	6.09	134.6	6.65	143.1	7.29	160.3	8.21	178.3	9.22
	90	90.9	4.6	108	5.68	126	6.9	134.6	7.53	143.1	8.24	160.3	9.16	178.3	10.01
	95	90.9	4.86	108	6.04	126	7.34	134.6	8.03	143.1	8.74	160.3	9.63	178.3	10.31
	100	90.9	5.26	108	6.52	126	7.92	134.6	8.67	143.1	9	160.3	10.08	178.3	10.6
	105	90.9	5.96	108	7.43	126	8.74	134.6	9.25	143.1	9.78	160.3	10.62	178.3	11.22
	110	90.9	6.71	108	8.42	126	9.24	134.6	9.8	143.1	10.61	160.3	11.06	173.1	12.06
	115	90.9	7.21	108	8.98	126	9.56	134.6	10.36	143.1	10.91	160.3	11.39	163.2	12.84
	118	90.9	7.66	108.0	9.55	126.0	10.16	134.6	10.98	130.2	10.91	134.4	9.67	133.3	10.90
	122	90.9	8.26	108.0	10.34	112.5	9.70	107.5	9.03	104.3	8.26	107.9	7.33	107.3	8.28
60	23	78	2.45	92.6	2.89	108	3.36	114.9	3.61	122.6	3.86	138	4.38	152.6	4.92
	25	78	2.48	92.6	2.91	108	3.4	114.9	3.64	122.6	3.91	138	4.43	152.6	4.97
	30	78	2.54	92.6	2.99	108	3.48	114.9	3.74	122.6	4	138	4.54	152.6	5.1
	35	78	2.6	92.6	3.07	108	3.57	114.9	3.84	122.6	4.11	138	4.66	152.6	5.23
	40	78	2.68	92.6	3.15	108	3.66	114.9	3.94	122.6	4.21	138	4.78	152.6	5.37
	45	78	2.7	92.6	3.18	108	3.69	114.9	3.97	122.6	4.25	138	4.82	152.6	5.41
	50	78	2.72	92.6	3.21	108	3.73	114.9	4.01	122.6	4.29	138	4.86	152.6	5.46
	55	78	2.76	92.6	3.26	108	3.8	114.9	4.08	122.6	4.36	138	4.96	152.6	5.55
	60	78	2.85	92.6	3.37	108	3.93	114.9	4.23	122.6	4.53	138	5.13	152.6	5.78
	65	78	2.89	92.6	3.43	108	4.01	114.9	4.31	122.6	4.6	138	5.24	152.6	5.89
	70	78	2.96	92.6	3.52	108	4.12	114.9	4.42	122.6	4.73	138	5.39	152.6	6.11
	75	78	3.02	92.6	3.58	108	4.19	114.9	4.51	122.6	4.88	138	5.7	152.6	6.51
	80	78	3.21	92.6	3.91	108	4.7	114.9	5.13	122.6	5.55	138	6.39	152.6	7.36
	85	78	3.41	92.6	4.16	108	5	114.9	5.46	122.6	5.95	138	6.73	152.6	7.59
	90	78	3.82	92.6	4.7	108	5.65	114.9	6.17	122.6	6.68	138	7.52	152.6	8.28
	95	78	4.04	92.6	4.98	108	6	114.9	6.58	122.6	7.07	138	7.86	152.6	8.72
	100	78	4.34	92.6	5.35	108	6.47	114.9	7.08	122.6	7.39	138	8.34	152.6	9.1
	105	78	4.94	92.6	6.09	108	7.14	114.9	7.56	122.6	8.04	138	8.86	152.6	9.92
	110	78	5.55	92.6	6.92	108	7.7	114.9	8.01	122.6	8.69	138	9.47	152.6	10.82
	115	78	5.95	92.6	7.38	108	8	114.9	8.48	122.6	8.99	138	10.01	152.6	11.56
	118	78.0	6.29	92.6	7.83	108.0	8.50	114.9	9.01	122.6	9.57	134.4	9.67	133.3	10.90
	122	78.0	6.79	92.6	8.46	108.0	9.21	107.3	9.14	103.8	8.46	107.9	7.33	107.3	8.28
50	23	64.8	2.14	77.1	2.48	90	2.85	96	3.03	102	3.23	114.9	3.62	126.9	4.03
	25	64.8	2.16	77.1	2.52	90	2.87	96	3.06	102	3.27	114.9	3.66	126.9	4.07
	30	64.8	2.22	77.1	2.58	90	2.96	96	3.15	102	3.36	114.9	3.76	126.9	4.19
	35	64.8	2.28	77.1	2.64	90	3.03	96	3.23	102	3.45	114.9	3.86	126.9	4.29
	40	64.8	2.34	77.1	2.71	90	3.11	96	3.31	102	3.53	114.9	3.96	126.9	4.41
	45	64.8	2.38	77.1	2.75	90	3.15	96	3.36	102	3.58	114.9	4.01	126.9	4.47
	50	64.8	2.41	77.1	2.79	90	3.2	96	3.41	102	3.64	114.9	4.07	126.9	4.53
	55	64.8	2.46	77.1	2.84	90	3.25	96	3.46	102	3.69	114.9	4.15	126.9	4.61
	60	64.8	2.51	77.1	2.92	90	3.36	96	3.59	102	3.82	114.9	4.28	126.9	4.79
	65	64.8	2.54	77.1	2.97	90	3.41	96	3.64	102	3.87	114.9	4.35	126.9	4.87
	70	64.8	2.61	77.1	3.02	90	3.48	96	3.74	102	3.97	114.9	4.48	126.9	5.02
	75	64.8	2.64	77.1	3.07	90	3.56	96	3.79	102	4.05	114.9	4.56	126.9	5.12
	80	64.8	2.71	77.1	3.25	90	3.82	96	4.12	102	4.43	114.9	5.1	126.9	5.81
	85	64.8	2.89	77.1	3.43	90	4.05	96	4.38	102	4.71	114.9	5.43	126.9	6.2
	90	64.8	3.23	77.1	3.84	90	4.56	96	4.92	102	5.3	114.9	6.12	126.9	7.02
	95	64.8	3.41	77.1	4.07	90	4.81	96	5.22	102	5.63	114.9	6.51	126.9	7.45
	100	64.8	3.59	77.1	4.3	90	5.1	96	5.53	102	5.97	114.9	6.91	126.9	7.91
	105	64.8	3.92	77.1	4.75	90	5.64	96	6.11	102	6.6	114.9	7.66	126.9	8.8
	110	64.8	4.33	77.1	5.25	90	6.25	96	6.79	102	7.35	114.9	8.55	126.9	9.83
	115	64.8	4.64	77.1	5.63	90	6.71	96	7.3	102	7.91	114.9	9.22	126.9	10.6
	118	64.8	5.01	77.1	6.11	90.0	7.29	96.0	7.94	102.0	8.61	114.9	9.67	126.9	10.90
	122	64.8	5.52	77.1	6.75	90.0	8.07	96.0	8.81	102.0	8.46	107.9	7.33	107.3	8.28

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN216BT3, ARUN216DT3 / ARUB216BT3, ARUB216DT3

216,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	196.4	6.06	233.3	7.33	271.2	8.66	281.2	9.37	285.2	10.07	295.1	11.54	302.1	11.94
	25	196.4	6.08	233.3	7.36	271.2	8.72	281.2	9.42	285.2	10.14	295.1	11.62	302.1	12.02
	30	196.4	6.16	233.3	7.46	271.2	8.82	281.2	9.54	285.2	10.25	295.1	11.75	302.1	12.16
	35	196.4	6.23	233.3	7.56	271.2	8.93	281.2	9.64	285.2	10.38	295.1	11.89	302.1	12.30
	40	196.4	6.31	233.3	7.64	271.2	9.03	281.2	9.77	285.2	10.50	295.1	12.03	302.1	12.45
	45	196.4	6.38	233.3	7.71	271.2	9.13	281.2	9.87	285.2	10.60	295.1	12.16	302.1	12.58
	50	196.4	6.44	233.3	7.79	271.2	9.22	281.2	9.96	285.2	10.71	295.1	12.28	302.1	12.71
	55	196.4	6.55	233.3	7.94	271.2	9.40	277.2	10.18	281.2	10.93	291.0	12.49	298.1	12.79
	60	196.4	6.76	233.3	8.22	267.2	9.79	271.0	10.57	274.2	11.35	284.0	12.88	291.0	12.94
	65	196.4	6.90	233.3	8.40	263.2	9.96	267.2	10.78	270.2	11.57	280.0	13.31	287.0	13.42
	70	196.4	6.64	233.3	8.07	258.2	9.93	261.2	10.93	265.2	11.99	274.9	13.32	282.0	13.45
	75	196.4	6.81	233.3	8.60	254.3	10.63	257.2	11.73	261.2	12.85	270.9	13.95	277.9	14.05
	80	196.4	7.74	233.3	9.80	247.3	12.16	250.3	13.42	254.3	14.75	263.8	15.15	270.9	15.28
	85	196.4	8.24	233.3	10.46	243.3	12.99	247.3	14.32	250.3	15.64	259.8	15.78	266.9	15.91
	90	196.4	9.33	229.3	11.89	236.3	14.75	239.3	16.31	243.3	16.87	252.8	17.01	259.8	17.17
	95	198.5	9.90	227.7	12.66	234.8	15.74	238.8	17.41	241.8	17.47	251.4	17.64	258.5	17.80
	100	198.5	10.71	223.7	13.69	230.8	17.07	234.8	18.32	237.8	18.42	248.3	18.59	255.5	18.76
	105	198.5	12.08	217.7	15.49	224.7	19.25	228.2	19.70	231.7	19.80	239.7	19.98	243.2	20.17
	110	198.5	13.56	208.7	17.45	217.4	21.00	218.1	21.10	221.3	21.17	226.0	21.38	226.8	21.58
	115	197.5	15.69	201.1	20.07	201.1	22.14	201.1	22.14	201.1	22.14	204.0	22.18	204.9	22.22
	118	171.7	13.30	174.9	17.01	175.1	18.61	175.1	18.78	175.1	18.78	177.6	18.82	176.9	18.85
	122	137.2	10.09	140.2	12.93	139.6	14.17	139.9	14.20	140.2	14.22	142.6	14.26	142.4	14.32
120	23	178.7	5.68	213.3	6.88	247.9	8.13	265.6	8.79	277.5	9.45	290.1	10.83	296.1	11.21
	25	178.7	5.71	213.3	6.92	247.9	8.19	265.6	8.84	277.5	9.51	290.1	10.91	296.1	11.28
	30	178.7	5.79	213.3	7.00	247.9	8.28	265.6	8.95	277.5	9.62	290.1	11.03	296.1	11.41
	35	178.7	5.86	213.3	7.08	247.9	8.38	265.6	9.07	277.5	9.74	290.1	11.16	296.1	11.55
	40	178.7	5.93	213.3	7.18	247.9	8.49	265.6	9.18	277.5	9.87	290.1	11.31	296.1	11.70
	45	178.7	6.00	213.3	7.25	247.9	8.58	265.6	9.29	277.5	9.98	290.1	11.43	296.1	11.84
	50	178.7	6.07	213.3	7.34	247.9	8.68	265.6	9.38	277.5	10.09	290.1	11.56	296.1	11.96
	55	178.7	6.17	213.3	7.47	247.9	8.85	265.6	9.59	274.5	10.29	286.1	11.76	293.1	12.05
	60	178.7	6.37	213.3	7.74	247.9	9.22	263.7	9.95	266.6	10.69	279.0	12.13	285.1	12.34
	65	178.7	6.50	213.3	7.91	247.9	9.38	259.7	10.15	263.7	10.89	275.0	12.53	282.0	12.64
	70	178.7	6.38	213.3	7.75	247.9	9.53	254.8	10.49	257.7	11.51	269.9	12.79	276.0	12.91
	75	178.7	6.54	213.3	8.26	247.9	10.20	250.8	11.26	254.8	12.34	265.9	13.39	273.0	13.49
	80	178.7	7.43	213.3	9.41	241.0	11.67	243.9	12.88	246.9	14.16	258.9	14.54	264.9	14.67
	85	178.7	7.91	213.3	10.04	237.0	12.47	240.0	13.74	243.9	15.02	254.8	15.15	261.9	15.27
	90	178.7	8.96	213.3	11.42	230.1	14.16	233.1	15.66	236.0	16.20	247.8	16.33	253.8	16.49
	95	180.6	9.50	215.6	12.15	228.5	15.11	231.5	16.71	235.5	16.77	246.3	16.93	253.5	17.09
	100	180.6	10.29	215.6	13.14	224.5	16.38	228.5	17.59	231.5	17.68	243.3	17.85	249.4	18.01
	105	180.6	11.59	212.1	14.88	218.6	18.49	222.1	18.91	225.0	19.01	236.2	19.18	240.1	19.35
	110	180.6	13.02	206.7	16.76	213.4	20.16	214.1	20.26	217.2	20.32	224.0	20.52	224.9	20.72
	115	175.6	15.06	199.1	19.27	199.1	21.25	199.1	21.25	199.1	21.25	204.0	21.29	205.0	21.33
	118	156.8	13.30	173.2	16.33	173.4	17.87	173.4	18.03	173.4	18.03	177.7	18.06	176.9	18.10
	122	125.3	10.09	138.9	12.42	138.2	13.60	138.5	13.64	138.9	13.65	142.7	13.69	142.4	13.75
110	23	165.7	5.22	197.6	6.31	229.5	7.47	245.5	8.07	261.5	8.68	288.1	9.95	294.2	10.28
	25	165.7	5.25	197.6	6.35	229.5	7.51	245.5	8.13	261.5	8.73	288.1	9.99	294.2	10.34
	30	165.7	5.32	197.6	6.43	229.5	7.61	245.5	8.22	261.5	8.84	288.1	10.13	294.2	10.47
	35	165.7	5.40	197.6	6.52	229.5	7.71	245.5	8.34	261.5	8.97	288.1	10.28	294.2	10.64
	40	165.7	5.47	197.6	6.62	229.5	7.82	245.5	8.46	261.5	9.09	288.1	10.42	294.2	10.77
	45	165.7	5.56	197.6	6.72	229.5	7.95	245.5	8.60	261.5	9.24	288.1	10.59	294.2	10.96
	50	165.7	5.65	197.6	6.83	229.5	8.08	245.5	8.74	261.5	9.39	288.1	10.77	294.2	11.13
	55	165.7	5.74	197.6	6.96	229.5	8.24	245.5	8.93	261.5	9.58	284.0	10.95	290.1	11.23
	60	165.7	5.93	197.6	7.21	229.5	8.58	245.5	9.27	261.5	9.95	276.9	11.30	283.0	11.40
	65	165.7	6.05	197.6	7.36	229.5	8.74	245.5	9.46	261.5	10.14	272.8	11.67	278.9	11.76
	70	165.7	6.12	197.6	7.43	229.5	9.14	245.5	10.06	256.5	11.04	267.7	12.26	273.8	12.38
	75	165.7	6.27	197.6	7.92	229.5	9.78	245.5	10.79	252.5	11.83	263.6	12.84	269.7	12.93
	80	164.0	7.12	195.6	9.02	227.2	11.19	240.0	12.35	243.0	13.58	253.9	13.94	259.9	14.06
	85	164.0	7.58	195.6	9.63	227.2	11.96	236.1	13.18	239.0	14.40	249.9	14.52	255.9	14.65
	90	164.0	8.59	195.6	10.95	226.2	13.58	229.2	15.01	232.1	15.53	242.8	15.65	248.9	15.81
	95	164.0	9.11	195.6	11.65	222.2	14.49	225.2	16.02	228.2	16.08	238.8	16.24	244.8	16.39
	100	164.0	9.86	195.6	12.60	219.3	15.71	222.2	16.86	225.2	16.96	235.8	17.11	241.8	17.27
	105	164.0	11.12	195.6	14.25	212.5	17.73	215.4	18.14	218.3	18.23	228.8	18.39	234.7	18.57
	110	164.0	12.48	195.6	16.07	205.9	19.33	206.5	19.42	209.5	19.49	216.1	19.68	216.9	19.87
	115	164.0	14.44	195.6	18.48	197.1	20.38	197.1	20.38	198.0	20.38	202.0	20.41	202.9	20.45
	118	158.4	13.16	170.1	15.66	171.6	17.13	171.6	17.29	172.4	17.29	175.8	17.32	175.1	17.35
	122	126.6	9.98	136.4	11.90	136.8	13.04	137.1	13.07	138.1	13.09	141.2	13.13	141.0	13.18

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN216BT3, ARUN216DT3 / ARUB216BT3, ARUB216DT3 Cooling Capacity

216,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	145.6	4.72	173.6	5.71	201.5	6.75	216	7.3	237.4	7.97	266.2	9.13	281.1	9.49
	25	145.6	4.76	173.6	5.75	201.5	6.81	216	7.38	237.4	8.03	266.2	9.22	281.1	9.59
	30	145.6	4.88	173.6	5.9	201.5	6.98	216	7.54	237.4	8.23	266.2	9.43	281.1	9.81
	35	145.6	4.95	173.6	6	201.5	7.09	216	7.67	237.4	8.36	266.2	9.59	281.1	9.97
	40	145.6	5.03	173.6	6.09	201.5	7.2	216	7.79	237.4	8.5	266.2	9.74	281.1	10.13
	45	145.6	5.15	173.6	6.22	201.5	7.35	216	7.95	237.4	8.67	266.2	9.94	281.1	10.34
	50	145.6	5.24	173.6	6.34	201.5	7.5	216	8.11	237.4	8.85	266.2	10.14	281.1	10.55
	55	145.6	5.33	173.6	6.46	201.5	7.65	216	8.29	237.4	9.03	266.2	10.32	278.1	10.7
	60	145.6	5.5	173.6	6.69	201.5	7.97	216	8.6	237.4	9.38	265.2	10.64	270.2	10.9
	65	145.6	5.62	173.6	6.84	201.5	8.11	216	8.78	237.4	9.56	261.2	11	267.2	11.22
	70	145.6	5.79	173.6	7.04	201.5	8.66	216	9.53	237.4	10.61	256.2	11.79	261.2	12
	75	145.6	5.94	173.6	7.5	201.5	9.27	216	10.23	237.4	11.38	252.3	12.35	258.2	12.5
	80	145.6	6.75	173.6	8.55	201.5	10.6	216	11.7	237.4	13.06	245.3	13.41	250.3	13.59
	85	145.6	7.18	173.6	9.13	201.5	11.33	216	12.49	236.4	13.85	241.4	13.97	247.3	14.15
	90	145.6	8.14	173.6	10.37	201.5	12.86	216	14.22	228.4	14.94	234.4	15.05	239.4	15.28
	95	145.6	8.63	173.6	11.04	201.5	13.73	**216**	**15.18**	225.5	15.47	230.4	15.61	236.4	15.84
	100	145.6	9.32	173.6	11.91	201.5	14.85	212.1	15.94	221.6	16.27	227.4	16.42	232.5	16.65
	105	145.6	10.47	173.6	13.42	200.4	16.7	206.3	17.08	214.9	17.43	220.5	17.58	225.9	17.82
	110	145.6	11.71	173.6	15.07	198.1	18.13	202.6	18.22	206.7	18.55	210	18.73	213.8	19
	115	145.6	13.45	173.6	17.21	188.6	18.98	194.4	18.98	199.3	19.26	201.1	19.29	202	19.42
	118	145.6	13.57	152.3	16.14	164.2	15.96	169.3	16.10	173.5	16.34	175.1	16.37	174.4	16.48
	122	124.6	12.28	122.1	12.27	130.9	12.15	135.2	12.18	139.0	12.37	140.6	12.41	140.4	12.52
90	23	131.1	4.22	156.2	5.08	182.3	5.99	194.8	6.46	207.3	6.96	232.4	7.9	257.5	8.72
	25	131.1	4.28	156.2	5.15	182.3	6.07	194.8	6.54	207.3	7.03	232.4	8.02	257.5	8.83
	30	131.1	4.4	156.2	5.3	182.3	6.25	194.8	6.74	207.3	7.25	232.4	8.24	257.5	9.1
	35	131.1	4.54	156.2	5.46	182.3	6.44	194.8	6.94	207.3	7.47	232.4	8.49	257.5	9.38
	40	131.1	4.67	156.2	5.62	182.3	6.63	194.8	7.15	207.3	7.7	232.4	8.74	257.5	9.65
	45	131.1	4.78	156.2	5.75	182.3	6.79	194.8	7.32	207.3	7.88	232.4	8.94	257.5	9.88
	50	131.1	4.89	156.2	5.88	182.3	6.94	194.8	7.48	207.3	8.05	232.4	9.14	257.5	10.1
	55	131.1	4.95	156.2	5.97	182.3	7.06	194.8	7.63	207.3	8.2	232.4	9.32	257.5	10.19
	60	131.1	5.13	156.2	6.21	182.3	7.33	194.8	7.93	207.3	8.53	232.4	9.68	255.3	10.31
	65	131.1	5.22	156.2	6.33	182.3	7.48	194.8	8.08	207.3	8.69	232.4	9.86	253.6	10.82
	70	131.1	5.37	156.2	6.51	182.3	7.75	194.8	8.53	207.3	9.32	232.4	11	248.8	11.63
	75	131.1	5.46	156.2	6.82	182.3	8.29	194.8	9.14	207.3	10.01	232.4	11.48	244.9	12.14
	80	131.1	6.12	156.2	7.72	182.3	9.47	194.8	10.43	207.3	11.43	232.4	12.69	238.2	13.21
	85	131.1	6.51	156.2	8.23	182.3	10.13	194.8	11.13	207.3	12.21	229.5	13.36	234.3	13.75
	90	131.1	7.36	156.2	9.32	182.3	11.49	194.8	12.67	207.3	13.9	222.8	14.62	227.6	14.84
	95	131.1	7.84	156.2	9.89	182.3	12.24	194.8	13.51	207.3	14.84	218.9	15.18	223.7	15.39
	100	131.1	8.1	156.2	10.31	182.3	12.75	194.8	14.04	207.3	15.16	216	15.83	219.9	16.01
	105	131.1	9.38	156.2	11.96	182.3	14.42	194.8	15.38	205	16.26	209.3	16.97	212.1	17.18
	110	131.1	10.78	156.2	13.8	182.3	15.82	194.8	16.61	196.7	17.63	199.3	18.23	200.9	18.43
	115	131.1	11.67	156.2	14.95	170.7	16.66	184.7	17.37	187.3	18.19	189.1	18.59	189.9	18.83
	118	131.1	12.39	152.3	16.14	148.6	14.01	160.8	14.74	163.1	15.44	164.6	15.77	163.9	15.98
	122	124.6	12.28	122.1	12.27	118.4	10.66	128.5	11.15	130.6	11.69	132.2	11.96	131.9	12.14
80	23	116.7	3.68	138.9	4.41	162	5.18	172.6	5.59	184.2	5.98	206.4	6.86	228.5	7.69
	25	116.7	3.72	138.9	4.46	162	5.22	172.6	5.65	184.2	6.06	206.4	6.94	228.5	7.76
	30	116.7	3.83	138.9	4.59	162	5.38	172.6	5.81	184.2	6.22	206.4	7.13	228.5	7.99
	35	116.7	3.93	138.9	4.72	162	5.54	172.6	5.97	184.2	6.39	206.4	7.33	228.5	8.21
	40	116.7	4.04	138.9	4.84	162	5.68	172.6	6.13	184.2	6.56	206.4	7.53	228.5	8.43
	45	116.7	4.1	138.9	4.9	162	5.77	172.6	6.22	184.2	6.65	206.4	7.64	228.5	8.55
	50	116.7	4.15	138.9	4.98	162	5.84	172.6	6.3	184.2	6.75	206.4	7.74	228.5	8.67
	55	116.7	4.22	138.9	5.06	162	5.95	172.6	6.41	184.2	6.87	206.4	7.89	228.5	8.81
	60	116.7	4.36	138.9	5.23	162	6.16	172.6	6.64	184.2	7.15	206.4	8.16	228.5	9.17
	65	116.7	4.43	138.9	5.33	162	6.28	172.6	6.77	184.2	7.29	206.4	8.31	228.5	9.38
	70	116.7	4.55	138.9	5.48	162	6.47	172.6	6.98	184.2	7.59	206.4	8.96	228.5	10.37
	75	116.7	4.64	138.9	5.59	162	6.79	172.6	7.44	184.2	8.1	206.4	9.53	228.5	10.94
	80	116.7	5.08	138.9	6.35	162	7.74	172.6	8.45	184.2	9.23	206.4	10.96	228.5	12.22
	85	116.7	5.42	138.9	6.75	162	8.24	172.6	9.02	184.2	9.89	206.4	11.68	228.5	12.54
	90	116.7	6.09	138.9	7.65	162	9.32	172.6	10.25	184.2	11.24	206.4	12.84	224.8	13.28
	95	116.7	6.47	138.9	8.1	162	9.95	172.6	10.88	184.2	11.95	206.4	13.28	220	13.65
	100	116.7	6.98	138.9	8.73	162	10.73	172.6	11.65	184.2	12.43	206.4	13.83	215	14.09
	105	116.7	7.95	138.9	9.99	162	11.95	172.6	12.51	184.2	13.33	203.9	14.38	208.9	14.79
	110	116.7	9.02	138.9	11.39	162	12.68	172.6	13.36	184.2	14.36	196.7	14.91	197.7	15.55
	115	116.7	9.66	138.9	12.17	162	13.1	172.6	14.04	172.6	14.7	173.7	15.24	173.7	16.17
	118	116.7	10.25	138.9	12.93	148.6	14.01	151.6	13.33	150.3	12.47	151.2	12.93	149.9	13.72
	122	116.7	11.08	122.5	12.19	118.4	10.66	121.1	10.08	120.4	9.44	121.4	9.80	120.7	10.42

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN216BT3, ARUN216DT3 / ARUB216BT3, ARUB216DT3

216,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	102.2	3.24	121.5	3.83	141.8	4.49	151.4	4.82	161	5.16	180.3	5.87	200.6	6.6
	25	102.2	3.26	121.5	3.87	141.8	4.54	151.4	4.87	161	5.21	180.3	5.94	200.6	6.66
	30	102.2	3.35	121.5	3.97	141.8	4.65	151.4	5	161	5.35	180.3	6.08	200.6	6.84
	35	102.2	3.45	121.5	4.08	141.8	4.78	151.4	5.13	161	5.5	180.3	6.24	200.6	7.03
	40	102.2	3.53	121.5	4.18	141.8	4.9	151.4	5.27	161	5.63	180.3	6.41	200.6	7.2
	45	102.2	3.58	121.5	4.25	141.8	4.98	151.4	5.36	161	5.72	180.3	6.51	200.6	7.32
	50	102.2	3.65	121.5	4.32	141.8	5.06	151.4	5.44	161	5.82	180.3	6.62	200.6	7.44
	55	102.2	3.71	121.5	4.41	141.8	5.14	151.4	5.52	161	5.92	180.3	6.75	200.6	7.59
	60	102.2	3.82	121.5	4.55	141.8	5.33	151.4	5.73	161	6.14	180.3	7	200.6	7.89
	65	102.2	3.88	121.5	4.64	141.8	5.42	151.4	5.84	161	6.26	180.3	7.13	200.6	8.01
	70	102.2	3.98	121.5	4.76	141.8	5.59	151.4	6.01	161	6.45	180.3	7.38	200.6	8.52
	75	102.2	4.05	121.5	4.85	141.8	5.69	151.4	6.22	161	6.75	180.3	7.89	200.6	9.02
	80	102.2	4.36	121.5	5.36	141.8	6.47	151.4	7.06	161	7.65	180.3	8.72	200.6	10
	85	102.2	4.64	121.5	5.69	141.8	6.89	151.4	7.53	161	8.24	180.3	9.29	200.6	10.43
	90	102.2	5.21	121.5	6.43	141.8	7.8	151.4	8.52	161	9.32	180.3	10.36	200.6	11.32
	95	102.2	5.5	121.5	6.83	141.8	8.31	151.4	9.09	161	9.89	180.3	10.89	200.6	11.66
	100	102.2	5.95	121.5	7.38	141.8	8.96	151.4	9.8	161	10.18	180.3	11.4	200.6	11.99
	105	102.2	6.74	121.5	8.41	141.8	9.88	151.4	10.46	161	11.07	180.3	12.01	200.6	12.69
	110	102.2	7.59	121.5	9.53	141.8	10.46	151.4	11.09	161	12	180.3	12.51	194.8	13.65
	115	102.2	8.16	121.5	10.16	141.8	10.82	151.4	11.72	161	12.35	180.3	12.89	183.6	14.53
	118	102.2	8.66	121.5	10.80	141.8	11.49	151.4	12.42	146.5	12.35	151.2	10.93	149.9	12.33
	122	102.2	9.35	121.5	11.69	126.5	10.97	121.0	10.21	117.4	9.35	121.4	8.29	120.7	9.37
60	23	87.8	2.77	104.1	3.26	121.5	3.8	129.2	4.08	137.9	4.36	155.3	4.95	171.6	5.56
	25	87.8	2.81	104.1	3.29	121.5	3.84	129.2	4.12	137.9	4.42	155.3	5.01	171.6	5.62
	30	87.8	2.88	104.1	3.39	121.5	3.94	129.2	4.23	137.9	4.53	155.3	5.14	171.6	5.77
	35	87.8	2.94	104.1	3.48	121.5	4.04	129.2	4.34	137.9	4.65	155.3	5.27	171.6	5.92
	40	87.8	3.03	104.1	3.56	121.5	4.14	129.2	4.46	137.9	4.77	155.3	5.41	171.6	6.07
	45	87.8	3.05	104.1	3.6	121.5	4.17	129.2	4.49	137.9	4.81	155.3	5.45	171.6	6.12
	50	87.8	3.08	104.1	3.63	121.5	4.22	129.2	4.53	137.9	4.85	155.3	5.5	171.6	6.18
	55	87.8	3.12	104.1	3.69	121.5	4.3	129.2	4.62	137.9	4.93	155.3	5.61	171.6	6.28
	60	87.8	3.23	104.1	3.82	121.5	4.45	129.2	4.79	137.9	5.12	155.3	5.8	171.6	6.54
	65	87.8	3.27	104.1	3.88	121.5	4.53	129.2	4.87	137.9	5.21	155.3	5.92	171.6	6.66
	70	87.8	3.35	104.1	3.98	121.5	4.66	129.2	5	137.9	5.36	155.3	6.09	171.6	6.92
	75	87.8	3.42	104.1	4.05	121.5	4.74	129.2	5.1	137.9	5.52	155.3	6.45	171.6	7.37
	80	87.8	3.63	104.1	4.43	121.5	5.31	129.2	5.8	137.9	6.28	155.3	7.23	171.6	8.32
	85	87.8	3.86	104.1	4.7	121.5	5.65	129.2	6.18	137.9	6.73	155.3	7.61	171.6	8.59
	90	87.8	4.32	104.1	5.31	121.5	6.39	129.2	6.98	137.9	7.55	155.3	8.51	171.6	9.37
	95	87.8	4.58	104.1	5.63	121.5	6.79	129.2	7.44	137.9	8	155.3	8.89	171.6	9.87
	100	87.8	4.91	104.1	6.05	121.5	7.32	129.2	8.01	137.9	8.36	155.3	9.43	171.6	10.29
	105	87.8	5.59	104.1	6.89	121.5	8.08	129.2	8.55	137.9	9.09	155.3	10.02	171.6	11.22
	110	87.8	6.28	104.1	7.82	121.5	8.71	129.2	9.07	137.9	9.82	155.3	10.71	171.6	12.24
	115	87.8	6.73	104.1	8.35	121.5	9.05	129.2	9.59	137.9	10.17	155.3	11.33	171.6	13.08
	118	87.8	7.12	104.1	8.85	121.5	9.61	129.2	10.19	137.9	10.83	151.2	10.93	149.9	12.33
	122	87.8	7.68	104.1	9.57	121.5	10.41	120.7	10.34	116.8	9.57	121.4	8.29	120.7	9.37
50	23	72.9	2.42	86.8	2.81	101.3	3.22	108	3.43	114.8	3.66	129.2	4.09	142.7	4.56
	25	72.9	2.44	86.8	2.85	101.3	3.24	108	3.46	114.8	3.7	129.2	4.14	142.7	4.6
	30	72.9	2.52	86.8	2.92	101.3	3.34	108	3.56	114.8	3.8	129.2	4.25	142.7	4.74
	35	72.9	2.58	86.8	2.99	101.3	3.43	108	3.66	114.8	3.9	129.2	4.37	142.7	4.86
	40	72.9	2.65	86.8	3.07	101.3	3.52	108	3.75	114.8	4	129.2	4.48	142.7	4.98
	45	72.9	2.69	86.8	3.11	101.3	3.57	108	3.8	114.8	4.05	129.2	4.54	142.7	5.05
	50	72.9	2.72	86.8	3.16	101.3	3.62	108	3.85	114.8	4.11	129.2	4.61	142.7	5.13
	55	72.9	2.78	86.8	3.22	101.3	3.68	108	3.91	114.8	4.17	129.2	4.69	142.7	5.21
	60	72.9	2.84	86.8	3.3	101.3	3.8	108	4.06	114.8	4.32	129.2	4.84	142.7	5.42
	65	72.9	2.87	86.8	3.36	101.3	3.85	108	4.11	114.8	4.37	129.2	4.92	142.7	5.5
	70	72.9	2.95	86.8	3.42	101.3	3.94	108	4.23	114.8	4.49	129.2	5.07	142.7	5.68
	75	72.9	2.98	86.8	3.48	101.3	4.03	108	4.29	114.8	4.58	129.2	5.16	142.7	5.79
	80	72.9	3.07	86.8	3.68	101.3	4.32	108	4.66	114.8	5.01	129.2	5.76	142.7	6.58
	85	72.9	3.27	86.8	3.88	101.3	4.58	108	4.95	114.8	5.33	129.2	6.14	142.7	7.01
	90	72.9	3.65	86.8	4.35	101.3	5.16	108	5.56	114.8	6	129.2	6.92	142.7	7.94
	95	72.9	3.85	86.8	4.61	101.3	5.45	108	5.91	114.8	6.37	129.2	7.36	142.7	8.43
	100	72.9	4.06	86.8	4.87	101.3	5.76	108	6.26	114.8	6.75	129.2	7.82	142.7	8.95
	105	72.9	4.43	86.8	5.37	101.3	6.38	108	6.91	114.8	7.47	129.2	8.67	142.7	9.96
	110	72.9	4.9	86.8	5.94	101.3	7.07	108	7.68	114.8	8.31	129.2	9.68	142.7	11.12
	115	72.9	5.24	86.8	6.37	101.3	7.59	108	8.26	114.8	8.95	129.2	10.43	142.7	11.99
	118	72.9	5.66	86.8	6.91	101.3	8.25	108.0	8.98	114.8	9.74	129.2	10.93	142.7	12.33
	122	72.9	6.25	86.8	7.64	101.3	9.12	108.0	9.97	114.8	9.57	121.4	8.29	120.7	9.37

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN240BT3, ARUN240DT3 / ARUB240BT3, ARUB240DT3 — Cooling Capacity

240,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	23	218.2	6.78	259.2	8.20	301.3	9.70	312.4	10.48	316.8	11.27	327.8	12.92	335.7	13.37
	25	218.2	6.81	259.2	8.24	301.3	9.76	312.4	10.54	316.8	11.35	327.8	13.00	335.7	13.45
	30	218.2	6.90	259.2	8.35	301.3	9.87	312.4	10.67	316.8	11.47	327.8	13.15	335.7	13.61
	35	218.2	6.98	259.2	8.46	301.3	9.99	312.4	10.79	316.8	11.61	327.8	13.31	335.7	13.77
	40	218.2	7.07	259.2	8.55	301.3	10.11	312.4	10.93	316.8	11.75	327.8	13.47	335.7	13.94
	45	218.2	7.14	259.2	8.63	301.3	10.22	312.4	11.04	316.8	11.86	327.8	13.61	335.7	14.08
	50	218.2	7.21	259.2	8.72	301.3	10.32	312.4	11.15	316.8	11.99	327.8	13.74	335.7	14.22
	55	218.2	7.33	259.2	8.88	301.3	10.52	308.0	11.39	312.4	12.23	323.4	13.98	331.2	14.32
	60	218.2	7.57	259.2	9.20	296.9	10.95	301.1	11.83	304.7	12.71	315.5	14.42	323.4	14.48
	65	218.2	7.73	259.2	9.40	292.5	11.15	296.9	12.07	300.2	12.95	311.1	14.90	318.9	15.02
	70	218.2	7.44	259.2	9.03	286.9	11.12	290.3	12.23	294.7	13.42	305.5	14.91	313.3	15.06
	75	218.2	7.62	259.2	9.63	282.5	11.90	285.8	13.12	290.3	14.39	301.0	15.61	308.8	15.73
	80	218.2	8.66	259.2	10.97	274.7	13.61	278.1	15.02	282.5	16.51	293.2	16.95	301.0	17.10
	85	218.2	9.22	259.2	11.71	270.3	14.54	274.7	16.02	278.1	17.51	288.7	17.66	296.5	17.81
	90	218.2	10.45	254.8	13.31	262.6	16.51	265.9	18.25	270.3	18.89	280.9	19.03	288.7	19.22
	95	220.6	11.08	253.0	14.16	260.9	17.62	265.4	19.48	268.7	19.56	279.3	19.74	287.2	19.93
	100	220.6	11.99	248.6	15.32	256.4	19.10	260.9	20.50	264.2	20.62	275.9	20.81	283.8	21.00
	105	220.6	13.52	241.9	17.33	249.7	21.55	253.5	22.04	257.4	22.16	266.3	22.36	270.2	22.58
	110	220.6	15.18	231.8	19.53	241.6	23.50	242.3	23.62	245.9	23.70	251.1	23.93	252.0	24.16
	115	219.5	17.56	223.4	22.47	223.4	24.78	223.4	24.78	223.4	24.78	226.7	24.82	227.7	24.86
	118	190.8	14.88	194.3	19.04	194.5	20.83	194.5	21.02	194.5	21.02	197.4	21.06	196.6	21.10
	122	152.5	11.29	155.8	14.47	155.1	15.86	155.4	15.90	155.8	15.92	158.5	15.96	158.2	16.03
120	23	198.6	6.36	237.0	7.70	275.4	9.10	295.2	9.84	308.3	10.58	322.3	12.13	329.0	12.55
	25	198.6	6.40	237.0	7.74	275.4	9.16	295.2	9.90	308.3	10.65	322.3	12.21	329.0	12.63
	30	198.6	6.48	237.0	7.84	275.4	9.27	295.2	10.02	308.3	10.77	322.3	12.35	329.0	12.78
	35	198.6	6.56	237.0	7.93	275.4	9.38	295.2	10.15	308.3	10.90	322.3	12.49	329.0	12.93
	40	198.6	6.64	237.0	8.03	275.4	9.50	295.2	10.27	308.3	11.04	322.3	12.66	329.0	13.10
	45	198.6	6.72	237.0	8.12	275.4	9.61	295.2	10.39	308.3	11.16	322.3	12.79	329.0	13.25
	50	198.6	6.79	237.0	8.21	275.4	9.72	295.2	10.50	308.3	11.29	322.3	12.94	329.0	13.39
	55	198.6	6.90	237.0	8.36	275.4	9.90	295.2	10.73	305.0	11.52	317.9	13.17	325.7	13.49
	60	198.6	7.13	237.0	8.66	275.4	10.32	293.0	11.14	296.3	11.97	310.0	13.58	316.7	13.82
	65	198.6	7.28	237.0	8.85	275.4	10.50	288.6	11.37	293.0	12.19	305.5	14.03	313.4	14.14
	70	198.6	7.14	237.0	8.67	275.4	10.67	283.1	11.74	286.4	12.88	299.9	14.31	306.7	14.45
	75	198.6	7.32	237.0	9.24	275.4	11.42	278.7	12.60	283.1	13.81	295.5	14.99	303.3	15.10
	80	198.6	8.32	237.0	10.53	267.7	13.06	271.0	14.42	274.3	15.85	287.6	16.27	294.3	16.42
	85	198.6	8.85	237.0	11.24	263.3	13.95	266.6	15.38	271.0	16.81	283.2	16.95	291.0	17.10
	90	198.6	10.03	237.0	12.78	255.7	15.85	259.0	17.52	262.2	18.13	275.3	18.27	282.0	18.45
	95	200.7	10.64	239.5	13.60	253.9	16.92	257.2	18.70	261.7	18.77	273.7	18.95	281.6	19.13
	100	200.7	11.51	239.5	14.71	249.5	18.34	253.9	19.68	257.2	19.79	270.3	19.97	277.1	20.16
	105	200.7	12.97	235.7	16.65	242.8	20.70	246.8	21.16	250.0	21.28	262.4	21.46	266.8	21.66
	110	200.7	14.57	229.7	18.75	237.1	22.56	237.9	22.67	241.4	22.75	248.9	22.97	249.8	23.19
	115	195.1	16.86	221.3	21.57	221.3	23.78	221.3	23.78	221.3	23.78	226.7	23.83	227.7	23.87
	118	174.2	14.88	192.4	18.27	192.7	20.00	192.7	20.18	192.7	20.18	197.4	20.22	196.6	20.25
	122	139.2	11.29	154.3	13.90	153.6	15.23	153.9	15.26	154.3	15.28	158.5	15.33	158.2	15.39
110	23	184.1	5.84	219.5	7.07	255.0	8.36	272.8	9.04	290.5	9.71	320.1	11.13	326.9	11.51
	25	184.1	5.88	219.5	7.11	255.0	8.41	272.8	9.10	290.5	9.77	320.1	11.19	326.9	11.57
	30	184.1	5.95	219.5	7.20	255.0	8.51	272.8	9.20	290.5	9.89	320.1	11.34	326.9	11.72
	35	184.1	6.04	219.5	7.30	255.0	8.63	272.8	9.34	290.5	10.04	320.1	11.50	326.9	11.91
	40	184.1	6.12	219.5	7.40	255.0	8.76	272.8	9.47	290.5	10.18	320.1	11.66	326.9	12.05
	45	184.1	6.22	219.5	7.52	255.0	8.90	272.8	9.62	290.5	10.34	320.1	11.86	326.9	12.26
	50	184.1	6.32	219.5	7.65	255.0	9.05	272.8	9.78	290.5	10.51	320.1	12.05	326.9	12.45
	55	184.1	6.43	219.5	7.79	255.0	9.22	272.8	9.99	290.5	10.72	315.5	12.26	322.3	12.57
	60	184.1	6.64	219.5	8.07	255.0	9.61	272.8	10.37	290.5	11.14	307.6	12.64	314.4	12.76
	65	184.1	6.78	219.5	8.24	255.0	9.78	272.8	10.58	290.5	11.35	303.1	13.06	309.9	13.17
	70	184.1	6.84	219.5	8.32	255.0	10.23	272.8	11.26	285.0	12.35	297.4	13.72	304.2	13.86
	75	184.1	7.02	219.5	8.86	255.0	10.95	272.8	12.08	280.5	13.24	292.9	14.37	299.7	14.48
	80	182.2	7.97	217.3	10.10	252.4	12.53	266.7	13.83	270.0	15.19	282.1	15.61	288.8	15.74
	85	182.2	8.49	217.3	10.78	252.4	13.38	262.3	14.75	265.6	16.12	277.6	16.26	284.3	16.39
	90	182.2	9.62	217.3	12.25	251.3	15.19	254.6	16.80	257.9	17.38	269.8	17.52	276.5	17.69
	95	182.2	10.20	217.3	13.04	246.9	16.22	250.2	17.93	253.5	18.00	265.3	18.17	272.0	18.34
	100	182.2	11.04	217.3	14.10	243.6	17.58	246.9	18.87	250.2	18.98	261.9	19.15	268.7	19.33
	105	182.2	12.44	217.3	15.95	236.1	19.84	239.3	20.30	242.6	20.40	254.2	20.58	260.7	20.78
	110	182.2	13.97	217.3	17.98	228.7	21.63	229.4	21.74	232.8	21.81	240.1	22.03	241.0	22.24
	115	182.2	16.17	217.3	20.68	219.0	22.81	219.0	22.81	220.0	22.81	224.4	22.85	225.4	22.89
	118	176.1	14.73	189.0	17.52	190.7	19.18	190.7	19.35	191.6	19.35	195.4	19.39	194.6	19.42
	122	140.7	11.17	151.5	13.32	152.0	14.60	152.4	14.63	153.4	14.65	156.9	14.69	156.6	14.76

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity — ARUN240BT3, ARUN240DT3 / ARUB240BT3, ARUB240DT3

240,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	161.8	5.28	192.9	6.39	223.9	7.56	240	8.17	263.8	8.92	295.8	10.22	312.3	10.63
	25	161.8	5.33	192.9	6.44	223.9	7.62	240	8.26	263.8	8.99	295.8	10.32	312.3	10.74
	30	161.8	5.46	192.9	6.6	223.9	7.81	240	8.44	263.8	9.21	295.8	10.56	312.3	10.98
	35	161.8	5.54	192.9	6.71	223.9	7.93	240	8.58	263.8	9.36	295.8	10.74	312.3	11.16
	40	161.8	5.63	192.9	6.82	223.9	8.06	240	8.72	263.8	9.51	295.8	10.9	312.3	11.33
	45	161.8	5.76	192.9	6.97	223.9	8.22	240	8.9	263.8	9.7	295.8	11.13	312.3	11.57
	50	161.8	5.87	192.9	7.1	223.9	8.4	240	9.08	263.8	9.91	295.8	11.35	312.3	11.81
	55	161.8	5.97	192.9	7.23	223.9	8.56	240	9.27	263.8	10.1	295.8	11.55	309	11.98
	60	161.8	6.16	192.9	7.49	223.9	8.92	240	9.63	263.8	10.5	294.7	11.91	300.2	12.2
	65	161.8	6.29	192.9	7.65	223.9	9.08	240	9.82	263.8	10.7	290.2	12.31	296.9	12.55
	70	161.8	6.48	192.9	7.88	223.9	9.69	240	10.67	263.8	11.88	284.7	13.2	290.2	13.43
	75	161.8	6.65	192.9	8.4	223.9	10.38	240	11.45	263.8	12.74	280.3	13.82	286.9	13.99
	80	161.8	7.55	192.9	9.56	223.9	11.87	240	13.1	263.8	14.61	272.6	15.01	278.1	15.21
	85	161.8	8.04	192.9	10.21	223.9	12.68	240	13.97	262.7	15.5	268.2	15.63	274.8	15.84
	90	161.8	9.11	192.9	11.61	223.9	14.4	240	15.92	253.8	16.72	260.4	16.85	266	17.1
	95	161.8	9.66	192.9	12.35	223.9	15.37	**240**	**16.99**	250.5	17.31	256	17.48	262.7	17.73
	100	161.8	10.43	192.9	13.33	223.9	16.62	235.7	17.84	246.2	18.21	252.7	18.38	258.4	18.63
	105	161.8	11.72	192.9	15.02	222.7	18.69	229.2	19.11	238.8	19.5	245	19.67	251	19.95
	110	161.8	13.1	192.9	16.86	220.1	20.29	225.1	20.39	229.7	20.76	233.3	20.96	237.6	21.27
	115	161.8	15.06	192.9	19.26	209.5	21.24	216	21.24	221.4	21.56	223.5	21.59	224.5	21.74
	118	161.8	15.19	169.2	18.07	182.4	17.86	188.1	18.02	192.8	18.29	194.6	18.32	193.8	18.45
	122	138.4	13.75	135.7	13.74	145.4	13.60	150.3	13.63	154.4	13.85	156.2	13.89	156.0	14.02
90	23	145.7	4.72	173.6	5.69	202.5	6.71	216.4	7.23	230.4	7.79	258.2	8.84	286.1	9.76
	25	145.7	4.79	173.6	5.76	202.5	6.8	216.4	7.32	230.4	7.87	258.2	8.97	286.1	9.89
	30	145.7	4.93	173.6	5.93	202.5	6.99	216.4	7.54	230.4	8.12	258.2	9.22	286.1	10.18
	35	145.7	5.08	173.6	6.12	202.5	7.2	216.4	7.76	230.4	8.36	258.2	9.5	286.1	10.5
	40	145.7	5.23	173.6	6.29	202.5	7.42	216.4	8	230.4	8.62	258.2	9.78	286.1	10.8
	45	145.7	5.35	173.6	6.44	202.5	7.59	216.4	8.19	230.4	8.82	258.2	10.01	286.1	11.06
	50	145.7	5.47	173.6	6.58	202.5	7.76	216.4	8.37	230.4	9.01	258.2	10.24	286.1	11.3
	55	145.7	5.54	173.6	6.68	202.5	7.9	216.4	8.54	230.4	9.18	258.2	10.44	286.1	11.41
	60	145.7	5.74	173.6	6.95	202.5	8.2	216.4	8.88	230.4	9.55	258.2	10.84	283.7	11.54
	65	145.7	5.84	173.6	7.09	202.5	8.37	216.4	9.05	230.4	9.72	258.2	11.04	281.8	12.11
	70	145.7	6.01	173.6	7.29	202.5	8.67	216.4	9.55	230.4	10.43	258.2	12.32	276.4	13.01
	75	145.7	6.11	173.6	7.63	202.5	9.28	216.4	10.23	230.4	11.21	258.2	12.85	272.1	13.59
	80	145.7	6.85	173.6	8.64	202.5	10.6	216.4	11.68	230.4	12.79	258.2	14.2	264.6	14.78
	85	145.7	7.29	173.6	9.21	202.5	11.34	216.4	12.45	230.4	13.67	255	14.96	260.4	15.39
	90	145.7	8.24	173.6	10.43	202.5	12.86	216.4	14.18	230.4	15.56	247.5	16.37	252.9	16.61
	95	145.7	8.78	173.6	11.07	202.5	13.7	216.4	15.12	230.4	16.61	243.2	16.99	248.6	17.22
	100	145.7	9.06	173.6	11.54	202.5	14.28	216.4	15.72	230.4	16.97	240	17.72	244.3	17.92
	105	145.7	10.5	173.6	13.39	202.5	16.14	216.4	17.21	227.8	18.2	232.6	18.99	235.7	19.23
	110	145.7	12.06	173.6	15.44	202.5	17.71	216.4	18.59	218.6	19.73	221.5	20.4	223.2	20.63
	115	145.7	13.06	173.6	16.74	189.6	18.65	205.2	19.44	208.1	20.36	210.1	20.81	211	21.07
	118	145.7	13.87	169.2	18.07	165.1	15.68	178.7	16.50	181.2	17.28	182.9	17.65	182.1	17.88
	122	138.4	13.75	135.7	13.74	131.6	11.94	142.8	12.48	145.1	13.08	146.9	13.38	146.6	13.59
80	23	129.6	4.12	154.3	4.94	180	5.8	191.8	6.26	204.6	6.7	229.3	7.68	253.9	8.6
	25	129.6	4.16	154.3	5	180	5.84	191.8	6.32	204.6	6.78	229.3	7.76	253.9	8.68
	30	129.6	4.29	154.3	5.13	180	6.03	191.8	6.51	204.6	6.96	229.3	7.98	253.9	8.94
	35	129.6	4.4	154.3	5.28	180	6.2	191.8	6.68	204.6	7.15	229.3	8.21	253.9	9.19
	40	129.6	4.52	154.3	5.42	180	6.36	191.8	6.87	204.6	7.35	229.3	8.43	253.9	9.44
	45	129.6	4.59	154.3	5.49	180	6.46	191.8	6.97	204.6	7.44	229.3	8.55	253.9	9.57
	50	129.6	4.65	154.3	5.57	180	6.54	191.8	7.06	204.6	7.55	229.3	8.66	253.9	9.7
	55	129.6	4.72	154.3	5.66	180	6.65	191.8	7.17	204.6	7.69	229.3	8.83	253.9	9.86
	60	129.6	4.88	154.3	5.85	180	6.89	191.8	7.43	204.6	8	229.3	9.13	253.9	10.26
	65	129.6	4.96	154.3	5.97	180	7.03	191.8	7.57	204.6	8.16	229.3	9.3	253.9	10.5
	70	129.6	5.1	154.3	6.14	180	7.24	191.8	7.81	204.6	8.5	229.3	10.03	253.9	11.61
	75	129.6	5.19	154.3	6.25	180	7.6	191.8	8.33	204.6	9.06	229.3	10.67	253.9	12.24
	80	129.6	5.69	154.3	7.1	180	8.66	191.8	9.46	204.6	10.34	229.3	12.27	253.9	13.68
	85	129.6	6.06	154.3	7.55	180	9.23	191.8	10.1	204.6	11.07	229.3	13.07	253.9	14.03
	90	129.6	6.82	154.3	8.57	180	10.43	191.8	11.47	204.6	12.58	229.3	14.37	249.8	14.87
	95	129.6	7.24	154.3	9.06	180	11.14	191.8	12.18	204.6	13.38	229.3	14.87	244.4	15.27
	100	129.6	7.81	154.3	9.77	180	12.01	191.8	13.04	204.6	13.91	229.3	15.48	238.9	15.77
	105	129.6	8.9	154.3	11.18	180	13.37	191.8	14	204.6	14.92	226.6	16.09	232.1	16.55
	110	129.6	10.1	154.3	12.74	180	14.19	191.8	14.95	204.6	16.07	218.6	16.68	219.6	17.4
	115	129.6	10.81	154.3	13.62	180	14.66	191.8	15.72	191.8	16.45	193	17.06	193	18.09
	118	129.6	11.47	154.3	14.47	165.1	15.68	168.4	14.92	167.0	13.96	168.0	14.48	166.6	15.35
	122	129.6	12.40	136.1	13.65	131.6	11.94	134.6	11.28	133.8	10.57	134.9	10.97	134.1	11.67

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN240BT3, ARUN240DT3 / ARUB240BT3, ARUB240DT3 Cooling Capacity

240,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	113.6	3.62	135	4.29	157.5	5.02	168.2	5.4	178.9	5.78	200.4	6.57	222.9	7.39
	25	113.6	3.65	135	4.33	157.5	5.08	168.2	5.45	178.9	5.83	200.4	6.64	222.9	7.46
	30	113.6	3.75	135	4.45	157.5	5.2	168.2	5.59	178.9	5.99	200.4	6.81	222.9	7.66
	35	113.6	3.86	135	4.57	157.5	5.35	168.2	5.74	178.9	6.15	200.4	6.98	222.9	7.87
	40	113.6	3.95	135	4.68	157.5	5.48	168.2	5.89	178.9	6.3	200.4	7.17	222.9	8.06
	45	113.6	4.01	135	4.76	157.5	5.57	168.2	6	178.9	6.41	200.4	7.29	222.9	8.19
	50	113.6	4.08	135	4.84	157.5	5.66	168.2	6.09	178.9	6.51	200.4	7.41	222.9	8.33
	55	113.6	4.15	135	4.93	157.5	5.76	168.2	6.18	178.9	6.63	200.4	7.55	222.9	8.5
	60	113.6	4.27	135	5.1	157.5	5.97	168.2	6.42	178.9	6.87	200.4	7.83	222.9	8.83
	65	113.6	4.34	135	5.19	157.5	6.06	168.2	6.54	178.9	7.01	200.4	7.98	222.9	8.97
	70	113.6	4.46	135	5.33	157.5	6.25	168.2	6.73	178.9	7.22	200.4	8.26	222.9	9.53
	75	113.6	4.53	135	5.43	157.5	6.37	168.2	6.96	178.9	7.55	200.4	8.83	222.9	10.09
	80	113.6	4.88	135	5.99	157.5	7.24	168.2	7.91	178.9	8.57	200.4	9.76	222.9	11.19
	85	113.6	5.19	135	6.37	157.5	7.72	168.2	8.42	178.9	9.23	200.4	10.4	222.9	11.67
	90	113.6	5.83	135	7.2	157.5	8.73	168.2	9.53	178.9	10.43	200.4	11.59	222.9	12.67
	95	113.6	6.16	135	7.65	157.5	9.3	168.2	10.17	178.9	11.07	200.4	12.19	222.9	13.05
	100	113.6	6.65	135	8.26	157.5	10.03	168.2	10.97	178.9	11.4	200.4	12.76	222.9	13.42
	105	113.6	7.54	135	9.41	157.5	11.06	168.2	11.71	178.9	12.39	200.4	13.44	222.9	14.2
	110	113.6	8.5	135	10.67	157.5	11.7	168.2	12.41	178.9	13.43	200.4	14	216.4	15.27
	115	113.6	9.13	135	11.37	157.5	12.11	168.2	13.12	178.9	13.82	200.4	14.42	204	16.26
	118	113.6	9.70	135.0	12.08	157.5	12.86	168.2	13.90	162.8	13.82	168.0	12.24	166.6	13.80
	122	113.6	10.46	135.0	13.09	140.6	12.28	134.4	11.43	130.4	10.46	134.9	9.28	134.1	10.48
60	23	97.5	3.1	115.7	3.65	135	4.25	143.6	4.57	153.2	4.88	172.5	5.54	190.7	6.22
	25	97.5	3.14	115.7	3.69	135	4.3	143.6	4.61	153.2	4.94	172.5	5.61	190.7	6.29
	30	97.5	3.22	115.7	3.79	135	4.41	143.6	4.74	153.2	5.07	172.5	5.75	190.7	6.46
	35	97.5	3.3	115.7	3.89	135	4.52	143.6	4.86	153.2	5.2	172.5	5.9	190.7	6.63
	40	97.5	3.39	115.7	3.99	135	4.64	143.6	4.99	153.2	5.34	172.5	6.05	190.7	6.8
	45	97.5	3.41	115.7	4.03	135	4.67	143.6	5.03	153.2	5.39	172.5	6.1	190.7	6.85
	50	97.5	3.45	115.7	4.06	135	4.72	143.6	5.07	153.2	5.43	172.5	6.16	190.7	6.91
	55	97.5	3.49	115.7	4.13	135	4.81	143.6	5.17	153.2	5.52	172.5	6.28	190.7	7.03
	60	97.5	3.61	115.7	4.27	135	4.98	143.6	5.36	153.2	5.73	172.5	6.49	190.7	7.32
	65	97.5	3.66	115.7	4.34	135	5.07	143.6	5.45	153.2	5.83	172.5	6.63	190.7	7.46
	70	97.5	3.75	115.7	4.46	135	5.21	143.6	5.59	153.2	5.99	172.5	6.82	190.7	7.74
	75	97.5	3.82	115.7	4.53	135	5.31	143.6	5.71	153.2	6.18	172.5	7.22	190.7	8.24
	80	97.5	4.06	115.7	4.96	135	5.95	143.6	6.49	153.2	7.03	172.5	8.09	190.7	9.32
	85	97.5	4.32	115.7	5.26	135	6.32	143.6	6.91	153.2	7.53	172.5	8.52	190.7	9.61
	90	97.5	4.84	115.7	5.95	135	7.15	143.6	7.81	153.2	8.45	172.5	9.52	190.7	10.49
	95	97.5	5.12	115.7	6.3	135	7.6	143.6	8.33	153.2	8.95	172.5	9.95	190.7	11.04
	100	97.5	5.5	115.7	6.77	135	8.19	143.6	8.97	153.2	9.35	172.5	10.55	190.7	11.52
	105	97.5	6.25	115.7	7.71	135	9.04	143.6	9.57	153.2	10.18	172.5	11.21	190.7	12.56
	110	97.5	7.03	115.7	8.75	135	9.75	143.6	10.15	153.2	11	172.5	11.99	190.7	13.7
	115	97.5	7.53	115.7	9.34	135	10.13	143.6	10.74	153.2	11.39	172.5	12.68	190.7	14.63
	118	97.5	7.97	115.7	9.91	135.0	10.76	143.6	11.41	153.2	12.12	168.0	12.24	166.6	13.80
	122	97.5	8.59	115.7	10.72	135.0	11.66	134.1	11.57	129.8	10.72	134.9	9.28	134.1	10.48
50	23	81	2.71	96.4	3.14	112.5	3.6	120	3.83	127.5	4.09	143.6	4.58	158.6	5.1
	25	81	2.74	96.4	3.19	112.5	3.63	120	3.87	127.5	4.15	143.6	4.63	158.6	5.15
	30	81	2.81	96.4	3.26	112.5	3.74	120	3.98	127.5	4.25	143.6	4.76	158.6	5.3
	35	81	2.89	96.4	3.35	112.5	3.84	120	4.09	127.5	4.37	143.6	4.89	158.6	5.44
	40	81	2.96	96.4	3.44	112.5	3.94	120	4.19	127.5	4.48	143.6	5.01	158.6	5.58
	45	81	3.01	96.4	3.48	112.5	3.99	120	4.25	127.5	4.54	143.6	5.08	158.6	5.66
	50	81	3.05	96.4	3.53	112.5	4.05	120	4.31	127.5	4.6	143.6	5.16	158.6	5.74
	55	81	3.11	96.4	3.6	112.5	4.12	120	4.38	127.5	4.67	143.6	5.25	158.6	5.84
	60	81	3.18	96.4	3.7	112.5	4.25	120	4.54	127.5	4.83	143.6	5.41	158.6	6.06
	65	81	3.21	96.4	3.76	112.5	4.31	120	4.6	127.5	4.9	143.6	5.51	158.6	6.16
	70	81	3.31	96.4	3.83	112.5	4.41	120	4.73	127.5	5.03	143.6	5.67	158.6	6.36
	75	81	3.34	96.4	3.89	112.5	4.51	120	4.8	127.5	5.12	143.6	5.77	158.6	6.48
	80	81	3.44	96.4	4.12	112.5	4.83	120	5.22	127.5	5.61	143.6	6.45	158.6	7.36
	85	81	3.66	96.4	4.34	112.5	5.12	120	5.54	127.5	5.97	143.6	6.87	158.6	7.85
	90	81	4.09	96.4	4.86	112.5	5.77	120	6.23	127.5	6.71	143.6	7.75	158.6	8.88
	95	81	4.31	96.4	5.16	112.5	6.1	120	6.61	127.5	7.13	143.6	8.24	158.6	9.44
	100	81	4.54	96.4	5.45	112.5	6.45	120	7	127.5	7.55	143.6	8.75	158.6	10.02
	105	81	4.96	96.4	6.01	112.5	7.14	120	7.73	127.5	8.36	143.6	9.7	158.6	11.15
	110	81	5.48	96.4	6.65	112.5	7.91	120	8.59	127.5	9.31	143.6	10.83	158.6	12.45
	115	81	5.87	96.4	7.13	112.5	8.5	120	9.24	127.5	10.02	143.6	11.67	158.6	13.42
	118	81.0	6.34	96.4	7.74	112.5	9.23	120.0	10.05	127.5	10.91	143.6	12.24	158.6	13.80
	122	81.0	6.99	96.4	8.55	112.5	10.21	120.0	11.16	127.5	10.72	134.9	9.28	134.1	10.48

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN264BT3, ARUN264DT3 / ARUB264BT3, ARUB264DT3

264,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	240.1	7.47	285.2	9.03	331.5	10.69	343.7	11.55	348.5	12.42	360.6	14.23	369.2	14.73
	25	240.1	7.50	285.2	9.08	331.5	10.75	343.7	11.62	348.5	12.50	360.6	14.33	369.2	14.82
	30	240.1	7.60	285.2	9.20	331.5	10.88	343.7	11.76	348.5	12.64	360.6	14.49	369.2	14.99
	35	240.1	7.69	285.2	9.32	331.5	11.01	343.7	11.89	348.5	12.80	360.6	14.66	369.2	15.17
	40	240.1	7.78	285.2	9.42	331.5	11.14	343.7	12.04	348.5	12.95	360.6	14.84	369.2	15.35
	45	240.1	7.86	285.2	9.51	331.5	11.26	343.7	12.17	348.5	13.07	360.6	15.00	369.2	15.51
	50	240.1	7.94	285.2	9.61	331.5	11.37	343.7	12.29	348.5	13.21	360.6	15.14	369.2	15.67
	55	240.1	8.08	285.2	9.79	331.5	11.59	338.8	12.55	343.7	13.47	355.7	15.40	364.3	15.78
	60	240.1	8.34	285.2	10.14	326.6	12.07	331.2	13.03	335.1	14.00	347.1	15.89	355.7	15.95
	65	240.1	8.51	285.2	10.36	321.7	12.29	326.6	13.30	330.3	14.26	342.2	16.41	350.8	16.55
	70	240.1	8.19	285.2	9.95	315.6	12.25	319.3	13.48	324.2	14.79	336.0	16.43	344.6	16.59
	75	240.1	8.40	285.2	10.61	310.8	13.11	314.4	14.46	319.3	15.85	331.1	17.20	339.7	17.33
	80	240.1	9.54	285.2	12.08	302.2	14.99	305.9	16.55	310.8	18.19	322.5	18.68	331.1	18.84
	85	240.1	10.16	285.2	12.90	297.3	16.02	302.2	17.65	305.9	19.29	317.6	19.46	326.2	19.62
	90	240.1	11.51	280.3	14.66	288.8	18.19	292.5	20.11	297.3	20.81	308.9	20.97	317.6	21.18
	95	242.6	12.21	278.3	15.61	287.0	19.42	291.9	21.46	295.6	21.55	307.2	21.75	316.0	21.96
	100	242.6	13.21	273.4	16.88	282.0	21.05	287.0	22.59	290.7	22.72	303.5	22.93	312.2	23.13
	105	242.6	14.90	266.1	19.10	274.6	23.74	278.9	24.29	283.2	24.42	292.9	24.64	297.2	24.88
	110	242.6	16.72	255.0	21.52	265.7	25.90	266.5	26.02	270.5	26.11	276.2	26.36	277.2	26.62
	115	241.4	19.35	245.8	24.75	245.8	27.30	245.8	27.30	245.8	27.30	249.4	27.35	250.5	27.40
	118	209.9	16.40	213.7	20.97	214.0	22.96	214.0	23.16	214.0	23.16	217.1	23.20	216.2	23.25
	122	167.7	12.44	171.4	15.95	170.6	17.48	171.0	17.52	171.4	17.54	174.3	17.59	174.0	17.66
120	23	218.5	7.01	260.7	8.48	303.0	10.03	324.7	10.84	339.2	11.66	354.6	13.36	361.9	13.83
	25	218.5	7.05	260.7	8.53	303.0	10.09	324.7	10.90	339.2	11.73	354.6	13.45	361.9	13.91
	30	218.5	7.14	260.7	8.63	303.0	10.21	324.7	11.04	339.2	11.87	354.6	13.60	361.9	14.08
	35	218.5	7.23	260.7	8.73	303.0	10.33	324.7	11.18	339.2	12.01	354.6	13.77	361.9	14.25
	40	218.5	7.32	260.7	8.85	303.0	10.47	324.7	11.32	339.2	12.17	354.6	13.95	361.9	14.43
	45	218.5	7.40	260.7	8.95	303.0	10.59	324.7	11.45	339.2	12.30	354.6	14.09	361.9	14.60
	50	218.5	7.48	260.7	9.05	303.0	10.70	324.7	11.57	339.2	12.44	354.6	14.26	361.9	14.75
	55	218.5	7.60	260.7	9.22	303.0	10.91	324.7	11.82	335.5	12.69	349.6	14.51	358.3	14.87
	60	218.5	7.85	260.7	9.55	303.0	11.37	322.3	12.28	325.9	13.18	341.0	14.96	348.4	15.22
	65	218.5	8.02	260.7	9.75	303.0	11.57	317.4	12.52	322.3	13.43	336.1	15.46	344.7	15.58
	70	218.5	7.86	260.7	9.56	303.0	11.76	311.4	12.94	315.0	14.20	329.9	15.77	337.3	15.93
	75	218.5	8.06	260.7	10.18	303.0	12.58	306.6	13.88	311.4	15.22	325.0	16.52	333.6	16.63
	80	218.5	9.16	260.7	11.60	294.5	14.39	298.1	15.89	301.7	17.46	316.4	17.93	323.8	18.09
	85	218.5	9.75	260.7	12.39	289.7	15.38	293.3	16.95	298.1	18.52	311.5	18.68	320.1	18.84
	90	218.5	11.05	260.7	14.08	281.2	17.46	284.8	19.31	288.5	19.98	302.9	20.13	310.2	20.33
	95	220.8	11.72	263.5	14.98	279.3	18.64	283.0	20.61	287.8	20.68	301.1	20.88	309.8	21.08
	100	220.8	12.68	263.5	16.20	274.4	20.21	279.3	21.69	283.0	21.81	297.3	22.01	304.8	22.21
	105	220.8	14.29	259.3	18.35	267.1	22.80	271.4	23.32	275.0	23.45	288.7	23.65	293.5	23.87
	110	220.8	16.06	252.7	20.66	260.9	24.86	261.6	24.98	265.5	25.06	273.8	25.31	274.8	25.55
	115	214.7	18.58	243.4	23.76	243.4	26.21	243.4	26.21	243.4	26.21	249.4	26.25	250.5	26.30
	118	191.7	16.40	211.7	20.14	211.9	22.04	211.9	22.24	211.9	22.24	217.1	22.28	216.2	22.32
	122	153.1	12.44	169.7	15.31	168.9	16.78	169.3	16.82	169.8	16.84	174.4	16.89	174.1	16.96
110	23	202.5	6.44	241.5	7.79	280.5	9.21	300.0	9.96	319.6	10.70	352.1	12.27	359.5	12.68
	25	202.5	6.48	241.5	7.83	280.5	9.27	300.0	10.03	319.6	10.77	352.1	12.32	359.5	12.75
	30	202.5	6.55	241.5	7.93	280.5	9.38	300.0	10.14	319.6	10.90	352.1	12.49	359.5	12.91
	35	202.5	6.65	241.5	8.04	280.5	9.51	300.0	10.29	319.6	11.06	352.1	12.68	359.5	13.12
	40	202.5	6.74	241.5	8.16	280.5	9.65	300.0	10.43	319.6	11.21	352.1	12.85	359.5	13.28
	45	202.5	6.86	241.5	8.28	280.5	9.80	300.0	10.60	319.6	11.40	352.1	13.07	359.5	13.51
	50	202.5	6.97	241.5	8.43	280.5	9.97	300.0	10.78	319.6	11.58	352.1	13.28	359.5	13.72
	55	202.5	7.08	241.5	8.58	280.5	10.16	300.0	11.01	319.6	11.81	347.1	13.51	354.6	13.85
	60	202.5	7.31	241.5	8.89	280.5	10.58	300.0	11.43	319.6	12.28	338.4	13.93	345.9	14.06
	65	202.5	7.47	241.5	9.08	280.5	10.78	300.0	11.66	319.6	12.51	333.4	14.39	340.9	14.51
	70	202.5	7.54	241.5	9.16	280.5	11.27	300.0	12.41	313.5	13.61	327.2	15.12	334.7	15.27
	75	202.5	7.73	241.5	9.77	280.5	12.07	300.0	13.31	308.6	14.59	322.2	15.84	329.7	15.95
	80	200.4	8.79	239.0	11.12	277.7	13.80	293.4	15.23	297.0	16.74	310.3	17.19	317.7	17.34
	85	200.4	9.35	239.0	11.88	277.7	14.74	288.5	16.25	292.2	17.76	305.4	17.91	312.8	18.06
	90	200.4	10.60	239.0	13.50	276.5	16.74	280.1	18.51	283.7	19.15	296.8	19.31	304.2	19.49
	95	200.4	11.24	239.0	14.37	271.6	17.87	275.2	19.76	278.9	19.83	291.8	20.02	299.2	20.21
	100	200.4	12.16	239.0	15.54	268.0	19.37	271.6	20.80	275.2	20.91	288.1	21.10	295.5	21.29
	105	200.4	13.71	239.0	17.58	259.7	21.86	263.3	22.37	266.8	22.48	279.6	22.68	286.8	22.90
	110	200.4	15.40	239.0	19.81	251.6	23.84	252.4	23.95	256.1	24.03	264.1	24.27	265.1	24.50
	115	200.4	17.81	239.0	22.79	240.9	25.13	240.9	25.13	242.0	25.13	246.8	25.17	247.9	25.22
	118	193.7	16.23	207.9	19.31	209.8	21.13	209.8	21.32	210.7	21.32	214.9	21.36	214.0	21.40
	122	154.7	12.31	166.7	14.68	167.2	16.09	167.6	16.12	168.8	16.14	172.6	16.19	172.3	16.26

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN264BT3, ARUN264DT3 / ARUB264BT3, ARUB264DT3 Cooling Capacity

264,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	178	5.82	212.1	7.04	246.3	8.33	264	9	290.1	9.82	325.3	11.26	343.5	11.71
	25	178	5.87	212.1	7.09	246.3	8.4	264	9.1	290.1	9.9	325.3	11.37	343.5	11.83
	30	178	6.01	212.1	7.28	246.3	8.61	264	9.3	290.1	10.15	325.3	11.63	343.5	12.1
	35	178	6.1	212.1	7.39	246.3	8.74	264	9.45	290.1	10.31	325.3	11.83	343.5	12.3
	40	178	6.21	212.1	7.51	246.3	8.88	264	9.6	290.1	10.48	325.3	12.01	343.5	12.49
	45	178	6.35	212.1	7.68	246.3	9.06	264	9.81	290.1	10.69	325.3	12.26	343.5	12.75
	50	178	6.47	212.1	7.82	246.3	9.25	264	10	290.1	10.91	325.3	12.51	343.5	13.01
	55	178	6.57	212.1	7.97	246.3	9.43	264	10.22	290.1	11.13	325.3	12.73	339.9	13.2
	60	178	6.79	212.1	8.25	246.3	9.82	264	10.61	290.1	11.57	324.1	13.13	330.2	13.44
	65	178	6.93	212.1	8.43	246.3	10	264	10.82	290.1	11.78	319.3	13.56	326.5	13.83
	70	178	7.15	212.1	8.68	246.3	10.68	264	11.75	290.1	13.09	313.2	14.54	319.3	14.8
	75	178	7.32	212.1	9.25	246.3	11.43	264	12.61	290.1	14.03	308.3	15.23	315.6	15.41
	80	178	8.32	212.1	10.54	246.3	13.08	264	14.43	290.1	16.1	299.8	16.54	305.9	16.76
	85	178	8.86	212.1	11.25	246.3	13.97	264	15.4	288.9	17.08	295	17.22	302.3	17.45
	90	178	10.04	212.1	12.79	246.3	15.86	264	17.54	279.2	18.42	286.5	18.57	292.6	18.84
	95	178	10.65	212.1	13.61	246.3	16.93	**264**	**18.72**	275.6	19.07	281.6	19.25	288.9	19.53
	100	178	11.5	212.1	14.69	246.3	18.31	259.3	19.66	270.9	20.06	277.9	20.25	284.2	20.53
	105	178	12.92	212.1	16.55	245	20.59	252.1	21.06	262.7	21.49	269.5	21.68	276.1	21.98
	110	178	14.44	212.1	18.58	242.2	22.35	247.6	22.46	252.6	22.88	256.6	23.1	261.3	23.44
	115	178	16.59	212.1	21.22	230.5	23.4	237.6	23.4	243.5	23.75	245.8	23.79	246.9	23.95
	118	178.0	16.73	186.1	19.90	200.7	19.68	206.9	19.85	212.0	20.15	214.0	20.19	213.1	20.32
	122	152.2	15.15	149.2	15.13	159.9	14.98	165.3	15.02	169.8	15.26	171.9	15.30	171.6	15.44
90	23	160.3	5.21	190.9	6.27	222.8	7.39	238.1	7.97	253.4	8.58	284	9.74	314.7	10.76
	25	160.3	5.28	190.9	6.35	222.8	7.49	238.1	8.07	253.4	8.67	284	9.88	314.7	10.9
	30	160.3	5.43	190.9	6.53	222.8	7.71	238.1	8.31	253.4	8.95	284	10.16	314.7	11.22
	35	160.3	5.6	190.9	6.74	222.8	7.94	238.1	8.56	253.4	9.21	284	10.46	314.7	11.57
	40	160.3	5.76	190.9	6.93	222.8	8.18	238.1	8.82	253.4	9.49	284	10.78	314.7	11.9
	45	160.3	5.9	190.9	7.09	222.8	8.37	238.1	9.02	253.4	9.72	284	11.03	314.7	12.19
	50	160.3	6.02	190.9	7.25	222.8	8.55	238.1	9.22	253.4	9.93	284	11.28	314.7	12.45
	55	160.3	6.1	190.9	7.36	222.8	8.7	238.1	9.41	253.4	10.12	284	11.5	314.7	12.57
	60	160.3	6.32	190.9	7.66	222.8	9.04	238.1	9.78	253.4	10.52	284	11.94	312	12.71
	65	160.3	6.43	190.9	7.81	222.8	9.22	238.1	9.97	253.4	10.71	284	12.16	310	13.35
	70	160.3	6.62	190.9	8.03	222.8	9.56	238.1	10.52	253.4	11.49	284	13.57	304.1	14.34
	75	160.3	6.73	190.9	8.4	222.8	10.23	238.1	11.27	253.4	12.35	284	14.16	299.4	14.98
	80	160.3	7.55	190.9	9.52	222.8	11.68	238.1	12.87	253.4	14.09	284	15.65	291.1	16.29
	85	160.3	8.03	190.9	10.15	222.8	12.5	238.1	13.72	253.4	15.06	280.5	16.48	286.4	16.96
	90	160.3	9.07	190.9	11.49	222.8	14.17	238.1	15.62	253.4	17.14	272.3	18.03	278.1	18.3
	95	160.3	9.67	190.9	12.2	222.8	15.1	238.1	16.66	253.4	18.3	267.5	18.72	273.4	18.98
	100	160.3	9.98	190.9	12.71	222.8	15.73	238.1	17.32	253.4	18.7	264	19.53	268.7	19.74
	105	160.3	11.57	190.9	14.75	222.8	17.78	238.1	18.96	250.5	20.05	255.8	20.93	259.2	21.19
	110	160.3	13.29	190.9	17.01	222.8	19.51	238.1	20.48	240.4	21.74	243.6	22.48	245.6	22.73
	115	160.3	14.39	190.9	18.44	208.6	20.54	225.7	21.42	228.9	22.43	231.1	22.93	232.1	23.22
	118	160.3	15.28	186.1	19.90	181.6	17.28	196.5	18.18	199.3	19.03	201.2	19.45	200.4	19.70
	122	152.3	15.15	149.2	15.13	144.8	13.15	157.0	13.75	159.7	14.41	161.5	14.75	161.3	14.97
80	23	142.6	4.54	169.7	5.44	198	6.39	211	6.9	225.1	7.38	252.2	8.46	279.3	9.48
	25	142.6	4.59	169.7	5.5	198	6.44	211	6.96	225.1	7.47	252.2	8.56	279.3	9.57
	30	142.6	4.72	169.7	5.66	198	6.64	211	7.17	225.1	7.67	252.2	8.8	279.3	9.85
	35	142.6	4.85	169.7	5.82	198	6.83	211	7.36	225.1	7.88	252.2	9.04	279.3	10.13
	40	142.6	4.98	169.7	5.97	198	7.01	211	7.56	225.1	8.1	252.2	9.28	279.3	10.4
	45	142.6	5.05	169.7	6.05	198	7.11	211	7.68	225.1	8.2	252.2	9.42	279.3	10.54
	50	142.6	5.12	169.7	6.14	198	7.2	211	7.77	225.1	8.32	252.2	9.54	279.3	10.69
	55	142.6	5.2	169.7	6.24	198	7.33	211	7.9	225.1	8.48	252.2	9.72	279.3	10.87
	60	142.6	5.38	169.7	6.45	198	7.59	211	8.19	225.1	8.81	252.2	10.06	279.3	11.31
	65	142.6	5.46	169.7	6.58	198	7.75	211	8.35	225.1	9	252.2	10.24	279.3	11.57
	70	142.6	5.62	169.7	6.76	198	7.98	211	8.61	225.1	9.36	252.2	11.05	279.3	12.79
	75	142.6	5.72	169.7	6.89	198	8.37	211	9.18	225.1	9.98	252.2	11.75	279.3	13.49
	80	142.6	6.27	169.7	7.83	198	9.54	211	10.43	225.1	11.39	252.2	13.52	279.3	15.07
	85	142.6	6.68	169.7	8.32	198	10.17	211	11.13	225.1	12.19	252.2	14.4	279.3	15.46
	90	142.6	7.51	169.7	9.44	198	11.49	211	12.64	225.1	13.86	252.2	15.83	274.8	16.38
	95	142.6	7.98	169.7	9.98	198	12.27	211	13.42	225.1	14.74	252.2	16.38	268.9	16.83
	100	142.6	8.61	169.7	10.76	198	13.23	211	14.37	225.1	15.33	252.2	17.06	262.8	17.37
	105	142.6	9.81	169.7	12.32	198	14.73	211	15.43	225.1	16.44	249.2	17.73	255.3	18.23
	110	142.6	11.13	169.7	14.04	198	15.63	211	16.47	225.1	17.71	240.4	18.38	241.6	19.17
	115	142.6	11.91	169.7	15	198	16.15	211	17.32	211	18.12	212.3	18.8	212.3	19.94
	118	142.6	12.64	169.7	15.95	181.6	17.28	185.3	16.44	183.7	15.38	184.8	15.95	183.2	16.92
	122	142.6	13.67	149.7	15.04	144.8	13.15	148.0	12.43	147.1	11.64	148.4	12.09	147.5	12.85

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity — ARUN264BT3, ARUN264DT3 / ARUB264BT3, ARUB264DT3

264,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	124.9	3.99	148.5	4.73	173.3	5.53	185	5.95	196.8	6.37	220.4	7.24	245.1	8.14
	25	124.9	4.02	148.5	4.77	173.3	5.6	185	6.01	196.8	6.42	220.4	7.32	245.1	8.22
	30	124.9	4.13	148.5	4.9	173.3	5.73	185	6.16	196.8	6.59	220.4	7.5	245.1	8.43
	35	124.9	4.25	148.5	5.04	173.3	5.9	185	6.33	196.8	6.78	220.4	7.69	245.1	8.67
	40	124.9	4.35	148.5	5.16	173.3	6.04	185	6.49	196.8	6.95	220.4	7.9	245.1	8.88
	45	124.9	4.42	148.5	5.24	173.3	6.14	185	6.61	196.8	7.06	220.4	8.03	245.1	9.02
	50	124.9	4.5	148.5	5.33	173.3	6.24	185	6.71	196.8	7.18	220.4	8.16	245.1	9.18
	55	124.9	4.58	148.5	5.43	173.3	6.34	185	6.81	196.8	7.31	220.4	8.32	245.1	9.36
	60	124.9	4.71	148.5	5.62	173.3	6.58	185	7.07	196.8	7.57	220.4	8.63	245.1	9.72
	65	124.9	4.78	148.5	5.72	173.3	6.68	185	7.2	196.8	7.72	220.4	8.79	245.1	9.88
	70	124.9	4.91	148.5	5.88	173.3	6.89	185	7.41	196.8	7.96	220.4	9.1	245.1	10.5
	75	124.9	4.99	148.5	5.98	173.3	7.02	185	7.67	196.8	8.32	220.4	9.72	245.1	11.12
	80	124.9	5.38	148.5	6.6	173.3	7.98	185	8.71	196.8	9.44	220.4	10.75	245.1	12.33
	85	124.9	5.72	148.5	7.02	173.3	8.5	185	9.28	196.8	10.17	220.4	11.46	245.1	12.86
	90	124.9	6.42	148.5	7.93	173.3	9.62	185	10.5	196.8	11.49	220.4	12.77	245.1	13.96
	95	124.9	6.79	148.5	8.42	173.3	10.24	185	11.21	196.8	12.19	220.4	13.43	245.1	14.38
	100	124.9	7.33	148.5	9.1	173.3	11.05	185	12.09	196.8	12.56	220.4	14.06	245.1	14.78
	105	124.9	8.31	148.5	10.37	173.3	12.19	185	12.9	196.8	13.65	220.4	14.81	245.1	15.65
	110	124.9	9.36	148.5	11.75	173.3	12.9	185	13.68	196.8	14.79	220.4	15.42	238.1	16.83
	115	124.9	10.06	148.5	12.53	173.3	13.34	185	14.46	196.8	15.23	220.4	15.89	224.4	17.91
	118	124.9	10.68	148.5	13.32	173.3	14.17	185.0	15.32	179.1	15.23	184.8	13.48	183.2	15.20
	122	124.9	11.53	148.5	14.42	154.6	13.53	147.8	12.60	143.4	11.53	148.4	10.22	147.5	11.55
60	23	107.3	3.42	127.3	4.02	148.5	4.68	157.9	5.03	168.5	5.38	189.8	6.11	209.8	6.86
	25	107.3	3.46	127.3	4.06	148.5	4.74	157.9	5.08	168.5	5.45	189.8	6.18	209.8	6.93
	30	107.3	3.55	127.3	4.18	148.5	4.86	157.9	5.22	168.5	5.59	189.8	6.34	209.8	7.12
	35	107.3	3.63	127.3	4.29	148.5	4.98	157.9	5.35	168.5	5.73	189.8	6.5	209.8	7.3
	40	107.3	3.73	127.3	4.4	148.5	5.11	157.9	5.49	168.5	5.88	189.8	6.67	209.8	7.49
	45	107.3	3.76	127.3	4.44	148.5	5.15	157.9	5.54	168.5	5.93	189.8	6.72	209.8	7.54
	50	107.3	3.8	127.3	4.47	148.5	5.2	157.9	5.59	168.5	5.98	189.8	6.79	209.8	7.62
	55	107.3	3.85	127.3	4.55	148.5	5.3	157.9	5.69	168.5	6.08	189.8	6.92	209.8	7.75
	60	107.3	3.98	127.3	4.71	148.5	5.49	157.9	5.9	168.5	6.32	189.8	7.15	209.8	8.06
	65	107.3	4.03	127.3	4.78	148.5	5.59	157.9	6.01	168.5	6.42	189.8	7.31	209.8	8.22
	70	107.3	4.13	127.3	4.91	148.5	5.75	157.9	6.16	168.5	6.6	189.8	7.51	209.8	8.53
	75	107.3	4.21	127.3	4.99	148.5	5.85	157.9	6.29	168.5	6.81	189.8	7.96	209.8	9.08
	80	107.3	4.47	127.3	5.46	148.5	6.55	157.9	7.15	168.5	7.75	189.8	8.91	209.8	10.26
	85	107.3	4.76	127.3	5.8	148.5	6.97	157.9	7.62	168.5	8.29	189.8	9.38	209.8	10.59
	90	107.3	5.33	127.3	6.55	148.5	7.88	157.9	8.61	168.5	9.32	189.8	10.49	209.8	11.55
	95	107.3	5.64	127.3	6.94	148.5	8.37	157.9	9.18	168.5	9.86	189.8	10.97	209.8	12.17
	100	107.3	6.06	127.3	7.46	148.5	9.02	157.9	9.88	168.5	10.31	189.8	11.63	209.8	12.69
	105	107.3	6.89	127.3	8.5	148.5	9.96	157.9	10.54	168.5	11.21	189.8	12.36	209.8	13.83
	110	107.3	7.75	127.3	9.65	148.5	10.74	157.9	11.18	168.5	12.12	189.8	13.21	209.8	15.09
	115	107.3	8.29	127.3	10.3	148.5	11.16	157.9	11.83	168.5	12.54	189.8	13.97	209.8	16.13
	118	107.3	8.78	127.3	10.92	148.5	11.85	157.9	12.57	168.5	13.35	184.8	13.48	183.2	15.20
	122	107.3	9.47	127.3	11.81	148.5	12.84	147.5	12.75	142.8	11.81	148.4	10.22	147.5	11.55
50	23	89.1	2.99	106.1	3.46	123.8	3.97	132	4.22	140.3	4.51	157.9	5.05	174.4	5.62
	25	89.1	3.01	106.1	3.51	123.8	4	132	4.27	140.3	4.57	157.9	5.1	174.4	5.67
	30	89.1	3.1	106.1	3.6	123.8	4.12	132	4.39	140.3	4.69	157.9	5.25	174.4	5.84
	35	89.1	3.18	106.1	3.69	123.8	4.23	132	4.51	140.3	4.81	157.9	5.39	174.4	5.99
	40	89.1	3.26	106.1	3.79	123.8	4.34	132	4.62	140.3	4.93	157.9	5.52	174.4	6.15
	45	89.1	3.31	106.1	3.84	123.8	4.4	132	4.68	140.3	5	157.9	5.6	174.4	6.23
	50	89.1	3.36	106.1	3.89	123.8	4.47	132	4.75	140.3	5.07	157.9	5.68	174.4	6.32
	55	89.1	3.43	106.1	3.97	123.8	4.54	132	4.82	140.3	5.14	157.9	5.79	174.4	6.43
	60	89.1	3.5	106.1	4.07	123.8	4.68	132	5	140.3	5.32	157.9	5.97	174.4	6.68
	65	89.1	3.54	106.1	4.14	123.8	4.75	132	5.07	140.3	5.39	157.9	6.07	174.4	6.79
	70	89.1	3.64	106.1	4.22	123.8	4.86	132	5.22	140.3	5.54	157.9	6.25	174.4	7
	75	89.1	3.68	106.1	4.29	123.8	4.97	132	5.29	140.3	5.64	157.9	6.36	174.4	7.15
	80	89.1	3.79	106.1	4.54	123.8	5.32	132	5.75	140.3	6.18	157.9	7.11	174.4	8.11
	85	89.1	4.04	106.1	4.79	123.8	5.64	132	6.11	140.3	6.57	157.9	7.57	174.4	8.65
	90	89.1	4.5	106.1	5.36	123.8	6.36	132	6.86	140.3	7.4	157.9	8.54	174.4	9.79
	95	89.1	4.75	106.1	5.68	123.8	6.72	132	7.29	140.3	7.86	157.9	9.07	174.4	10.4
	100	89.1	5	106.1	6	123.8	7.11	132	7.72	140.3	8.32	157.9	9.65	174.4	11.04
	105	89.1	5.47	106.1	6.63	123.8	7.86	132	8.52	140.3	9.21	157.9	10.69	174.4	12.28
	110	89.1	6.04	106.1	7.32	123.8	8.72	132	9.47	140.3	10.25	157.9	11.93	174.4	13.72
	115	89.1	6.47	106.1	7.86	123.8	9.36	132	10.18	140.3	11.04	157.9	12.86	174.4	14.79
	118	89.1	6.99	106.1	8.53	123.8	10.17	132.0	11.07	140.3	12.02	157.9	13.48	174.4	15.20
	122	89.1	7.71	106.1	9.42	123.8	11.25	132.0	12.29	140.3	11.81	148.4	10.22	147.5	11.55

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN288BT3, ARUN288DT3 / ARUB288BT3, ARUB288DT3 — Cooling Capacity

288,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	261.9	8.17	311.1	9.88	361.6	11.69	374.9	12.64	380.2	13.59	393.4	15.57	402.8	16.11
	25	261.9	8.20	311.1	9.93	361.6	11.76	374.9	12.71	380.2	13.68	393.4	15.68	402.8	16.21
	30	261.9	8.32	311.1	10.06	361.6	11.90	374.9	12.87	380.2	13.83	393.4	15.85	402.8	16.40
	35	261.9	8.41	311.1	10.19	361.6	12.04	374.9	13.01	380.2	14.00	393.4	16.04	402.8	16.60
	40	261.9	8.52	311.1	10.30	361.6	12.19	374.9	13.18	380.2	14.16	393.4	16.23	402.8	16.80
	45	261.9	8.60	311.1	10.41	361.6	12.32	374.9	13.31	380.2	14.30	393.4	16.41	402.8	16.97
	50	261.9	8.69	311.1	10.52	361.6	12.44	374.9	13.44	380.2	14.45	393.4	16.57	402.8	17.14
	55	261.9	8.83	311.1	10.71	361.6	12.68	369.6	13.73	374.9	14.74	388.0	16.85	397.4	17.26
	60	261.9	9.12	311.1	11.09	356.3	13.20	361.4	14.26	365.6	15.32	378.6	17.38	388.0	17.45
	65	261.9	9.31	311.1	11.33	351.0	13.44	356.3	14.55	360.3	15.60	373.3	17.96	382.7	18.10
	70	261.9	8.96	311.1	10.89	344.3	13.40	348.3	14.74	353.6	16.18	366.6	17.97	376.0	18.15
	75	261.9	9.19	311.1	11.61	339.0	14.34	343.0	15.82	348.3	17.34	361.2	18.82	370.6	18.96
	80	261.9	10.44	311.1	13.22	329.7	16.40	333.7	18.10	339.0	19.90	351.8	20.44	361.2	20.61
	85	261.9	11.11	311.1	14.12	324.4	17.52	329.7	19.31	333.7	21.11	346.4	21.29	355.8	21.47
	90	261.9	12.59	305.8	16.04	315.1	19.90	319.1	22.00	324.4	22.77	337.0	22.94	346.4	23.17
	95	264.7	13.35	303.6	17.07	313.1	21.24	318.4	23.48	322.5	23.57	335.2	23.80	344.7	24.02
	100	264.7	14.46	298.3	18.47	307.7	23.03	313.1	24.71	317.1	24.85	331.1	25.08	340.6	25.31
	105	264.7	16.30	290.3	20.89	299.6	25.97	304.2	26.57	308.9	26.71	319.6	26.95	324.2	27.22
	110	264.7	18.30	278.2	23.55	289.9	28.33	290.8	28.47	295.1	28.56	301.3	28.84	302.4	29.12
	115	263.3	21.17	268.1	27.08	268.1	29.86	268.1	29.86	268.1	29.86	272.0	29.92	273.2	29.97
	118	229.0	17.94	233.2	22.95	233.5	25.11	233.5	25.34	233.5	25.34	236.8	25.39	235.9	25.43
	122	183.0	13.61	187.0	17.45	186.1	19.12	186.5	19.16	187.0	19.19	190.2	19.24	189.9	19.32
120	23	238.3	7.67	284.4	9.28	330.5	10.97	354.2	11.86	370.0	12.75	386.8	14.62	394.9	15.13
	25	238.3	7.71	284.4	9.33	330.5	11.04	354.2	11.93	370.0	12.84	386.8	14.71	394.9	15.22
	30	238.3	7.81	284.4	9.45	330.5	11.17	354.2	12.08	370.0	12.98	386.8	14.88	394.9	15.40
	35	238.3	7.91	284.4	9.56	330.5	11.31	354.2	12.23	370.0	13.14	386.8	15.06	394.9	15.59
	40	238.3	8.00	284.4	9.68	330.5	11.45	354.2	12.38	370.0	13.31	386.8	15.26	394.9	15.79
	45	238.3	8.10	284.4	9.79	330.5	11.58	354.2	12.53	370.0	13.46	386.8	15.42	394.9	15.97
	50	238.3	8.18	284.4	9.90	330.5	11.71	354.2	12.66	370.0	13.61	386.8	15.60	394.9	16.14
	55	238.3	8.32	284.4	10.08	330.5	11.94	354.2	12.93	366.0	13.88	381.4	15.87	390.8	16.26
	60	238.3	8.59	284.4	10.44	330.5	12.43	351.6	13.43	355.5	14.42	372.0	16.37	380.1	16.65
	65	238.3	8.77	284.4	10.67	330.5	12.66	346.3	13.70	351.6	14.70	366.6	16.91	376.0	17.05
	70	238.3	8.60	284.4	10.45	330.5	12.86	339.7	14.15	343.7	15.53	359.9	17.25	368.0	17.42
	75	238.3	8.82	284.4	11.14	330.5	13.77	334.4	15.19	339.7	16.65	354.6	18.07	364.0	18.20
	80	238.3	10.02	284.4	12.69	321.3	15.75	325.2	17.38	329.2	19.10	345.2	19.62	353.2	19.79
	85	238.3	10.67	284.4	13.55	316.0	16.82	320.0	18.54	325.2	20.26	339.8	20.44	349.2	20.61
	90	238.3	12.09	284.4	15.40	306.8	19.10	310.7	21.12	314.7	21.85	330.4	22.03	338.4	22.24
	95	240.8	12.82	287.4	16.39	304.7	20.39	308.7	22.54	314.0	22.63	328.4	22.84	337.9	23.06
	100	240.8	13.88	287.4	17.73	299.4	22.11	304.7	23.73	308.7	23.86	324.4	24.08	332.5	24.30
	105	240.8	15.63	282.8	20.07	291.4	24.95	296.1	25.51	300.0	25.65	314.9	25.87	320.2	26.11
	110	240.8	17.57	275.6	22.61	284.6	27.20	285.4	27.33	289.7	27.42	298.7	27.69	299.8	27.95
	115	234.2	20.32	265.5	26.00	265.5	28.67	265.5	28.67	265.5	28.67	272.1	28.72	273.3	28.77
	118	209.1	17.94	230.9	22.03	231.2	24.11	231.2	24.33	231.2	24.33	236.9	24.37	235.9	24.41
	122	167.1	13.61	185.2	16.75	184.3	18.35	184.7	18.40	185.2	18.42	190.2	18.47	189.9	18.55
110	23	220.9	7.04	263.5	8.52	306.0	10.08	327.3	10.89	348.6	11.71	384.1	13.42	392.2	13.87
	25	220.9	7.09	263.5	8.57	306.0	10.14	327.3	10.97	348.6	11.78	384.1	13.48	392.2	13.95
	30	220.9	7.17	263.5	8.68	306.0	10.26	327.3	11.09	348.6	11.93	384.1	13.67	392.2	14.12
	35	220.9	7.28	263.5	8.80	306.0	10.40	327.3	11.25	348.6	12.10	384.1	13.87	392.2	14.35
	40	220.9	7.38	263.5	8.93	306.0	10.56	327.3	11.41	348.6	12.27	384.1	14.06	392.2	14.53
	45	220.9	7.50	263.5	9.06	306.0	10.73	327.3	11.60	348.6	12.47	384.1	14.29	392.2	14.78
	50	220.9	7.62	263.5	9.22	306.0	10.90	327.3	11.79	348.6	12.67	384.1	14.53	392.2	15.01
	55	220.9	7.75	263.5	9.39	306.0	11.11	327.3	12.04	348.6	12.93	378.7	14.78	386.8	15.15
	60	220.9	8.00	263.5	9.73	306.0	11.58	327.3	12.50	348.6	13.43	369.2	15.24	377.3	15.38
	65	220.9	8.17	263.5	9.94	306.0	11.79	327.3	12.76	348.6	13.68	363.7	15.75	371.9	15.87
	70	220.9	8.25	263.5	10.02	306.0	12.33	327.3	13.57	342.0	14.89	356.9	16.54	365.1	16.71
	75	220.9	8.46	263.5	10.68	306.0	13.20	327.3	14.56	336.6	15.96	351.5	17.33	359.7	17.45
	80	218.6	9.61	260.8	12.17	302.9	15.10	320.0	16.67	324.0	18.32	338.5	18.81	346.6	18.98
	85	218.6	10.23	260.8	12.99	302.9	16.13	314.8	17.78	318.7	19.43	333.1	19.59	341.2	19.76
	90	218.6	11.59	260.8	14.77	301.6	18.32	305.5	20.25	309.5	20.96	323.7	21.12	331.8	21.33
	95	218.6	12.29	260.8	15.72	296.3	19.55	300.3	21.62	304.2	21.70	318.4	21.90	326.4	22.11
	100	218.6	13.31	260.8	17.00	292.4	21.20	296.3	22.75	300.3	22.88	314.3	23.09	322.4	23.30
	105	218.6	15.00	260.8	19.23	283.3	23.92	287.2	24.47	291.1	24.59	305.1	24.81	312.9	25.05
	110	218.6	16.84	260.8	21.68	274.5	26.08	275.3	26.21	279.4	26.29	288.1	26.55	289.2	26.80
	115	218.6	19.49	260.8	24.93	262.8	27.49	262.8	27.49	264.0	27.49	269.3	27.54	270.5	27.59
	118	211.3	17.76	226.8	21.12	228.8	23.12	228.8	23.33	229.9	23.33	234.5	23.37	233.5	23.41
	122	168.8	13.47	181.9	16.06	182.4	17.60	182.8	17.64	184.1	17.66	188.3	17.71	187.9	17.79

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN288BT3, ARUN288DT3 / ARUB288BT3, ARUB288DT3

288,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	194.1	6.37	231.4	7.7	268.7	9.11	288	9.85	316.5	10.75	354.9	12.32	374.8	12.81
	25	194.1	6.42	231.4	7.76	268.7	9.19	288	9.95	316.5	10.83	354.9	12.44	374.8	12.94
	30	194.1	6.58	231.4	7.96	268.7	9.41	288	10.18	316.5	11.1	354.9	12.73	374.8	13.24
	35	194.1	6.68	231.4	8.09	268.7	9.56	288	10.34	316.5	11.28	354.9	12.94	374.8	13.46
	40	194.1	6.79	231.4	8.22	268.7	9.72	288	10.51	316.5	11.46	354.9	13.14	374.8	13.66
	45	194.1	6.94	231.4	8.4	268.7	9.91	288	10.73	316.5	11.69	354.9	13.41	374.8	13.95
	50	194.1	7.07	231.4	8.56	268.7	10.12	288	10.94	316.5	11.94	354.9	13.69	374.8	14.23
	55	194.1	7.19	231.4	8.72	268.7	10.32	288	11.18	316.5	12.18	354.9	13.92	370.8	14.44
	60	194.1	7.43	231.4	9.03	268.7	10.75	288	11.61	316.5	12.65	353.6	14.36	360.2	14.7
	65	194.1	7.58	231.4	9.22	268.7	10.94	288	11.84	316.5	12.89	348.3	14.84	356.2	15.13
	70	194.1	7.82	231.4	9.5	268.7	11.69	288	12.86	316.5	14.32	341.7	15.91	348.3	16.19
	75	194.1	8.01	231.4	10.12	268.7	12.51	288	13.8	316.5	15.35	336.4	16.66	344.3	16.86
	80	194.1	9.11	231.4	11.53	268.7	14.3	288	15.79	316.5	17.61	327.1	18.09	333.7	18.34
	85	194.1	9.69	231.4	12.31	268.7	15.28	288	16.85	315.2	18.68	321.8	18.84	329.7	19.1
	90	194.1	10.98	231.4	13.99	268.7	17.35	288	19.19	304.6	20.15	312.5	20.31	319.2	20.61
	95	194.1	11.65	231.4	14.89	268.7	18.53	**288**	**20.48**	300.6	20.87	307.2	21.06	315.2	21.37
	100	194.1	12.58	231.4	16.07	268.7	20.04	282.9	21.5	295.5	21.95	303.2	22.15	310	22.46
	105	194.1	14.13	231.4	18.1	267.3	22.53	275	23.04	286.6	23.51	294	23.72	301.2	24.04
	110	194.1	15.79	231.4	20.33	264.2	24.46	270.1	24.58	275.6	25.03	280	25.27	285.1	25.64
	115	194.1	18.15	231.4	23.21	251.4	25.6	259.2	25.6	265.7	25.98	268.2	26.03	269.3	26.21
	118	194.1	18.30	203.0	21.78	218.9	21.53	225.7	21.72	231.3	22.05	233.5	22.09	232.5	22.24
	122	166.1	16.57	162.8	16.56	174.5	16.39	180.3	16.43	185.3	16.69	187.5	16.74	187.2	16.89
90	23	174.9	5.69	208.3	6.85	243	8.09	259.7	8.72	276.4	9.39	309.9	10.66	343.3	11.77
	25	174.9	5.78	208.3	6.94	243	8.19	259.7	8.83	276.4	9.48	309.9	10.81	343.3	11.92
	30	174.9	5.94	208.3	7.15	243	8.43	259.7	9.09	276.4	9.79	309.9	11.12	343.3	12.27
	35	174.9	6.12	208.3	7.37	243	8.68	259.7	9.36	276.4	10.08	309.9	11.45	343.3	12.66
	40	174.9	6.3	208.3	7.58	243	8.95	259.7	9.65	276.4	10.39	309.9	11.79	343.3	13.02
	45	174.9	6.45	208.3	7.76	243	9.15	259.7	9.87	276.4	10.63	309.9	12.06	343.3	13.33
	50	174.9	6.59	208.3	7.93	243	9.36	259.7	10.09	276.4	10.86	309.9	12.34	343.3	13.62
	55	174.9	6.67	208.3	8.06	243	9.52	259.7	10.29	276.4	11.07	309.9	12.58	343.3	13.75
	60	174.9	6.92	208.3	8.38	243	9.89	259.7	10.7	276.4	11.51	309.9	13.07	340.4	13.9
	65	174.9	7.04	208.3	8.54	243	10.09	259.7	10.9	276.4	11.72	309.9	13.31	338.1	14.6
	70	174.9	7.24	208.3	8.79	243	10.46	259.7	11.51	276.4	12.57	309.9	14.85	331.7	15.69
	75	174.9	7.36	208.3	9.19	243	11.19	259.7	12.33	276.4	13.51	309.9	15.49	326.6	16.38
	80	174.9	8.26	208.3	10.42	243	12.78	259.7	14.08	276.4	15.42	309.9	17.12	317.6	17.82
	85	174.9	8.79	208.3	11.11	243	13.67	259.7	15.01	276.4	16.48	306	18.03	312.4	18.55
	90	174.9	9.93	208.3	12.57	243	15.5	259.7	17.09	276.4	18.76	297	19.73	303.4	20.02
	95	174.9	10.58	208.3	13.34	243	16.52	259.7	18.23	276.4	20.02	291.9	20.48	298.3	20.76
	100	174.9	10.92	208.3	13.91	243	17.21	259.7	18.95	276.4	20.46	288	21.36	293.1	21.6
	105	174.9	12.66	208.3	16.14	243	19.46	259.7	20.75	273.3	21.93	279.1	22.9	282.8	23.18
	110	174.9	14.54	208.3	18.61	243	21.34	259.7	22.4	262.3	23.78	265.7	24.59	267.9	24.87
	115	174.9	15.74	208.3	20.17	227.6	22.48	246.2	23.44	249.7	24.54	252.1	25.08	253.2	25.4
	118	174.9	16.72	203.0	21.78	198.1	18.90	214.4	19.89	217.4	20.82	219.5	21.28	218.6	21.55
	122	166.1	16.57	162.8	16.56	157.9	14.39	171.3	15.04	174.2	15.77	176.2	16.13	175.9	16.38
80	23	155.6	4.97	185.1	5.95	216	6.99	230.1	7.54	245.6	8.07	275.1	9.26	304.7	10.37
	25	155.6	5.02	185.1	6.02	216	7.05	230.1	7.62	245.6	8.17	275.1	9.36	304.7	10.47
	30	155.6	5.17	185.1	6.19	216	7.26	230.1	7.84	245.6	8.39	275.1	9.62	304.7	10.78
	35	155.6	5.3	185.1	6.37	216	7.48	230.1	8.05	245.6	8.62	275.1	9.89	304.7	11.08
	40	155.6	5.45	185.1	6.53	216	7.67	230.1	8.28	245.6	8.86	275.1	10.16	304.7	11.38
	45	155.6	5.53	185.1	6.62	216	7.78	230.1	8.4	245.6	8.97	275.1	10.3	304.7	11.53
	50	155.6	5.6	185.1	6.71	216	7.88	230.1	8.5	245.6	9.1	275.1	10.44	304.7	11.69
	55	155.6	5.69	185.1	6.83	216	8.02	230.1	8.65	245.6	9.27	275.1	10.64	304.7	11.89
	60	155.6	5.89	185.1	7.05	216	8.31	230.1	8.96	245.6	9.64	275.1	11.01	304.7	12.37
	65	155.6	5.97	185.1	7.2	216	8.48	230.1	9.13	245.6	9.84	275.1	11.21	304.7	12.66
	70	155.6	6.14	185.1	7.4	216	8.73	230.1	9.42	245.6	10.24	275.1	12.09	304.7	13.99
	75	155.6	6.26	185.1	7.54	216	9.16	230.1	10.04	245.6	10.92	275.1	12.86	304.7	14.76
	80	155.6	6.86	185.1	8.56	216	10.44	230.1	11.41	245.6	12.46	275.1	14.79	304.7	16.49
	85	155.6	7.31	185.1	9.1	216	11.12	230.1	12.17	245.6	13.34	275.1	15.76	304.7	16.91
	90	155.6	8.22	185.1	10.33	216	12.57	230.1	13.82	245.6	15.16	275.1	17.32	299.7	17.92
	95	155.6	8.73	185.1	10.92	216	13.43	230.1	14.68	245.6	16.13	275.1	17.92	293.3	18.41
	100	155.6	9.42	185.1	11.78	216	14.48	230.1	15.72	245.6	16.77	275.1	18.66	286.7	19.01
	105	155.6	10.73	185.1	13.48	216	16.12	230.1	16.88	245.6	17.98	271.9	19.39	278.5	19.95
	110	155.6	12.17	185.1	15.36	216	17.1	230.1	18.02	245.6	19.37	262.3	20.11	263.6	20.97
	115	155.6	13.03	185.1	16.41	216	17.67	230.1	18.94	230.1	19.83	231.6	20.57	231.6	21.81
	118	155.6	13.83	185.1	17.45	198.1	18.90	202.1	17.98	200.4	16.82	201.6	17.45	199.9	18.51
	122	155.6	14.95	163.3	16.45	157.9	14.39	161.5	13.60	160.5	12.74	161.9	13.23	160.9	14.06

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN288BT3, ARUN288DT3 / ARUB288BT3, ARUB288DT3 — Cooling Capacity

288,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	136.3	4.36	162	5.17	189	6.06	201.9	6.51	214.7	6.96	240.4	7.92	267.4	8.91
	25	136.3	4.4	162	5.22	189	6.12	201.9	6.57	214.7	7.02	240.4	8.01	267.4	8.99
	30	136.3	4.52	162	5.36	189	6.27	201.9	6.74	214.7	7.21	240.4	8.21	267.4	9.23
	35	136.3	4.65	162	5.51	189	6.45	201.9	6.92	214.7	7.41	240.4	8.42	267.4	9.48
	40	136.3	4.76	162	5.64	189	6.61	201.9	7.1	214.7	7.6	240.4	8.65	267.4	9.72
	45	136.3	4.83	162	5.73	189	6.72	201.9	7.23	214.7	7.72	240.4	8.79	267.4	9.87
	50	136.3	4.92	162	5.83	189	6.83	201.9	7.34	214.7	7.85	240.4	8.93	267.4	10.04
	55	136.3	5.01	162	5.94	189	6.94	201.9	7.45	214.7	7.99	240.4	9.1	267.4	10.24
	60	136.3	5.15	162	6.14	189	7.2	201.9	7.74	214.7	8.28	240.4	9.44	267.4	10.64
	65	136.3	5.23	162	6.26	189	7.31	201.9	7.88	214.7	8.45	240.4	9.61	267.4	10.81
	70	136.3	5.38	162	6.43	189	7.54	201.9	8.11	214.7	8.7	240.4	9.96	267.4	11.49
	75	136.3	5.46	162	6.54	189	7.68	201.9	8.39	214.7	9.1	240.4	10.64	267.4	12.17
	80	136.3	5.89	162	7.22	189	8.73	201.9	9.53	214.7	10.33	240.4	11.76	267.4	13.49
	85	136.3	6.26	162	7.68	189	9.3	201.9	10.15	214.7	11.12	240.4	12.53	267.4	14.07
	90	136.3	7.03	162	8.68	189	10.52	201.9	11.49	214.7	12.57	240.4	13.97	267.4	15.27
	95	136.3	7.42	162	9.22	189	11.21	201.9	12.26	214.7	13.34	240.4	14.69	267.4	15.73
	100	136.3	8.02	162	9.96	189	12.09	201.9	13.23	214.7	13.74	240.4	15.38	267.4	16.17
	105	136.3	9.09	162	11.35	189	13.33	201.9	14.11	214.7	14.93	240.4	16.2	267.4	17.12
	110	136.3	10.24	162	12.86	189	14.11	201.9	14.96	214.7	16.18	240.4	16.87	259.7	18.41
	115	136.3	11.01	162	13.71	189	14.59	201.9	15.82	214.7	16.66	240.4	17.39	244.8	19.6
	118	136.3	11.69	162.0	14.57	189.0	15.50	201.9	16.76	195.4	16.66	201.6	14.75	199.9	16.63
	122	136.3	12.61	162.0	15.77	168.7	14.80	161.3	13.78	156.5	12.61	161.9	11.18	160.9	12.63
60	23	117	3.74	138.9	4.4	162	5.12	172.3	5.5	183.9	5.89	207	6.68	228.9	7.5
	25	117	3.79	138.9	4.44	162	5.18	172.3	5.56	183.9	5.96	207	6.76	228.9	7.58
	30	117	3.88	138.9	4.57	162	5.31	172.3	5.71	183.9	6.11	207	6.93	228.9	7.78
	35	117	3.97	138.9	4.69	162	5.45	172.3	5.86	183.9	6.27	207	7.11	228.9	7.99
	40	117	4.08	138.9	4.81	162	5.59	172.3	6.01	183.9	6.43	207	7.3	228.9	8.19
	45	117	4.12	138.9	4.85	162	5.63	172.3	6.06	183.9	6.49	207	7.35	228.9	8.25
	50	117	4.15	138.9	4.89	162	5.69	172.3	6.12	183.9	6.54	207	7.42	228.9	8.33
	55	117	4.21	138.9	4.98	162	5.8	172.3	6.23	183.9	6.66	207	7.57	228.9	8.48
	60	117	4.35	138.9	5.15	162	6	172.3	6.46	183.9	6.91	207	7.82	228.9	8.82
	65	117	4.41	138.9	5.23	162	6.12	172.3	6.57	183.9	7.03	207	7.99	228.9	8.99
	70	117	4.52	138.9	5.38	162	6.29	172.3	6.74	183.9	7.22	207	8.22	228.9	9.33
	75	117	4.61	138.9	5.46	162	6.4	172.3	6.88	183.9	7.45	207	8.7	228.9	9.94
	80	117	4.89	138.9	5.97	162	7.17	172.3	7.82	183.9	8.48	207	9.75	228.9	11.23
	85	117	5.21	138.9	6.34	162	7.62	172.3	8.33	183.9	9.07	207	10.27	228.9	11.59
	90	117	5.83	138.9	7.17	162	8.62	172.3	9.42	183.9	10.19	207	11.48	228.9	12.64
	95	117	6.17	138.9	7.59	162	9.16	172.3	10.04	183.9	10.79	207	12	228.9	13.31
	100	117	6.63	138.9	8.16	162	9.87	172.3	10.81	183.9	11.28	207	12.72	228.9	13.88
	105	117	7.54	138.9	9.3	162	10.9	172.3	11.53	183.9	12.27	207	13.52	228.9	15.13
	110	117	8.48	138.9	10.55	162	11.75	172.3	12.23	183.9	13.26	207	14.46	228.9	16.51
	115	117	9.07	138.9	11.26	162	12.21	172.3	12.94	183.9	13.72	207	15.28	228.9	17.64
	118	117	9.61	138.9	11.94	162	12.97	172.3	13.75	183.9	14.61	201.6	14.75	199.9	16.63
	122	117	10.36	138.9	12.92	162	14.05	160.9	13.95	155.7	12.92	161.9	11.18	160.9	12.63
50	23	97.2	3.27	115.7	3.79	135	4.34	144	4.62	153	4.93	172.3	5.52	190.3	6.15
	25	97.2	3.3	115.7	3.84	135	4.37	144	4.67	153	5	172.3	5.58	190.3	6.21
	30	97.2	3.39	115.7	3.93	135	4.51	144	4.8	153	5.13	172.3	5.74	190.3	6.39
	35	97.2	3.48	115.7	4.03	135	4.63	144	4.94	153	5.26	172.3	5.9	190.3	6.55
	40	97.2	3.57	115.7	4.14	135	4.75	144	5.05	153	5.39	172.3	6.04	190.3	6.72
	45	97.2	3.62	115.7	4.2	135	4.81	144	5.12	153	5.47	172.3	6.12	190.3	6.82
	50	97.2	3.67	115.7	4.26	135	4.89	144	5.2	153	5.55	172.3	6.21	190.3	6.92
	55	97.2	3.75	115.7	4.34	135	4.96	144	5.28	153	5.63	172.3	6.33	190.3	7.04
	60	97.2	3.83	115.7	4.46	135	5.12	144	5.47	153	5.82	172.3	6.53	190.3	7.31
	65	97.2	3.87	115.7	4.53	135	5.2	144	5.55	153	5.9	172.3	6.64	190.3	7.43
	70	97.2	3.99	115.7	4.61	135	5.32	144	5.71	153	6.06	172.3	6.84	190.3	7.66
	75	97.2	4.03	115.7	4.69	135	5.43	144	5.78	153	6.18	172.3	6.96	190.3	7.82
	80	97.2	4.14	115.7	4.96	135	5.82	144	6.29	153	6.76	172.3	7.78	190.3	8.87
	85	97.2	4.42	115.7	5.24	135	6.18	144	6.68	153	7.19	172.3	8.29	190.3	9.46
	90	97.2	4.92	115.7	5.86	135	6.96	144	7.5	153	8.09	172.3	9.34	190.3	10.71
	95	97.2	5.2	115.7	6.21	135	7.35	144	7.97	153	8.6	172.3	9.93	190.3	11.37
	100	97.2	5.47	115.7	6.57	135	7.78	144	8.44	153	9.11	172.3	10.55	190.3	12.08
	105	97.2	5.98	115.7	7.25	135	8.6	144	9.32	153	10.08	172.3	11.69	190.3	13.43
	110	97.2	6.61	115.7	8.01	135	9.54	144	10.36	153	11.22	172.3	13.05	190.3	15.01
	115	97.2	7.07	115.7	8.6	135	10.24	144	11.14	153	12.08	172.3	14.07	190.3	16.18
	118	97.2	7.64	115.7	9.33	135.0	11.13	144	12.11	153	13.15	172.3	14.75	190.3	16.63
	122	97.2	8.43	115.7	10.31	135.0	12.31	144	13.45	153	12.92	161.9	11.18	160.9	12.63

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN312BT3, ARUN312DT3 / ARUB312BT3, ARUB312DT3

312,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	283.7	8.75	337.0	10.58	391.7	12.52	406.1	13.53	411.9	14.55	426.2	16.67	436.4	17.25
	25	283.7	8.78	337.0	10.64	391.7	12.60	406.1	13.61	411.9	14.64	426.2	16.79	436.4	17.36
	30	283.7	8.91	337.0	10.78	391.7	12.74	406.1	13.78	411.9	14.81	426.2	16.98	436.4	17.57
	35	283.7	9.00	337.0	10.91	391.7	12.89	406.1	13.93	411.9	14.99	426.2	17.18	436.4	17.78
	40	283.7	9.12	337.0	11.03	391.7	13.05	406.1	14.11	411.9	15.17	426.2	17.38	436.4	17.99
	45	283.7	9.21	337.0	11.14	391.7	13.19	406.1	14.25	411.9	15.31	426.2	17.57	436.4	18.17
	50	283.7	9.31	337.0	11.26	391.7	13.32	406.1	14.40	411.9	15.48	426.2	17.74	436.4	18.35
	55	283.7	9.46	337.0	11.47	391.7	13.57	400.4	14.70	406.1	15.78	420.4	18.05	430.6	18.48
	60	283.7	9.77	337.0	11.88	386.0	14.14	391.5	15.27	396.1	16.40	410.2	18.61	420.4	18.69
	65	283.7	9.97	337.0	12.13	380.2	14.40	386.0	15.58	390.3	16.71	404.4	19.23	414.6	19.38
	70	283.7	9.60	337.0	11.66	373.0	14.35	377.3	15.79	383.1	17.32	397.1	19.24	407.3	19.43
	75	283.7	9.84	337.0	12.43	367.3	15.36	371.6	16.94	377.3	18.57	391.3	20.15	401.5	20.30
	80	283.7	11.18	337.0	14.16	357.2	17.56	361.5	19.39	367.3	21.31	381.1	21.88	391.3	22.07
	85	283.7	11.90	337.0	15.12	351.4	18.76	357.2	20.68	361.5	22.60	375.3	22.79	385.5	22.99
	90	283.7	13.48	331.2	17.18	341.3	21.31	345.7	23.56	351.4	24.38	365.1	24.57	375.3	24.81
	95	286.7	14.30	329.0	18.28	339.1	22.75	345.0	25.14	349.3	25.24	363.1	25.48	373.4	25.72
	100	286.7	15.48	323.1	19.77	333.3	24.66	339.1	26.46	343.5	26.61	358.7	26.86	369.0	27.10
	105	286.7	17.45	314.5	22.37	324.6	27.81	329.6	28.45	334.6	28.61	346.2	28.86	351.2	29.14
	110	286.7	19.59	301.4	25.21	314.0	30.34	315.0	30.49	319.7	30.59	326.4	30.88	327.6	31.18
	115	285.3	22.67	290.5	29.00	290.5	31.98	290.5	31.98	290.5	31.98	294.7	32.04	296.0	32.09
	118	248.1	19.21	252.6	24.57	252.9	26.89	252.9	27.13	252.9	27.13	256.6	27.18	255.5	27.23
	122	198.2	14.57	202.6	18.68	201.6	20.47	202.1	20.52	202.6	20.54	206.0	20.61	205.7	20.69
120	23	258.2	8.21	308.1	9.94	358.0	11.75	383.7	12.70	400.8	13.66	419.0	15.65	427.8	16.20
	25	258.2	8.26	308.1	10.00	358.0	11.82	383.7	12.77	400.8	13.74	419.0	15.76	427.8	16.30
	30	258.2	8.36	308.1	10.12	358.0	11.96	383.7	12.93	400.8	13.90	419.0	15.94	427.8	16.49
	35	258.2	8.47	308.1	10.23	358.0	12.11	383.7	13.10	400.8	14.07	419.0	16.13	427.8	16.69
	40	258.2	8.57	308.1	10.37	358.0	12.26	383.7	13.26	400.8	14.25	419.0	16.34	427.8	16.90
	45	258.2	8.67	308.1	10.48	358.0	12.40	383.7	13.42	400.8	14.41	419.0	16.51	427.8	17.10
	50	258.2	8.76	308.1	10.60	358.0	12.54	383.7	13.56	400.8	14.57	419.0	16.70	427.8	17.29
	55	258.2	8.91	308.1	10.80	358.0	12.78	383.7	13.85	396.5	14.86	413.2	16.99	423.4	17.41
	60	258.2	9.20	308.1	11.18	358.0	13.31	380.9	14.38	385.1	15.45	403.0	17.53	411.8	17.83
	65	258.2	9.39	308.1	11.43	358.0	13.56	375.1	14.67	380.9	15.74	397.2	18.11	407.4	18.25
	70	258.2	9.21	308.1	11.19	358.0	13.77	368.0	15.16	372.3	16.63	389.9	18.47	398.7	18.66
	75	258.2	9.44	308.1	11.93	358.0	14.74	362.3	16.26	368.0	17.83	384.1	19.35	394.3	19.49
	80	258.2	10.73	308.1	13.59	348.0	16.86	352.3	18.61	356.6	20.45	373.9	21.01	382.7	21.19
	85	258.2	11.42	308.1	14.51	342.3	18.01	346.6	19.85	352.3	21.70	368.1	21.88	378.3	22.07
	90	258.2	12.94	308.1	16.49	332.4	20.45	336.6	22.62	340.9	23.40	357.9	23.59	366.6	23.82
	95	260.9	13.73	311.4	17.55	330.1	21.84	334.4	24.14	340.2	24.23	355.8	24.46	366.1	24.69
	100	260.9	14.86	311.4	18.98	324.3	23.67	330.1	25.41	334.4	25.55	351.4	25.78	360.2	26.02
	105	260.9	16.74	306.4	21.49	315.7	26.71	320.8	27.32	325.0	27.47	341.2	27.70	346.8	27.96
	110	260.9	18.81	298.6	24.21	308.3	29.12	309.2	29.27	313.8	29.36	323.6	29.65	324.8	29.93
	115	253.7	21.76	287.7	27.84	287.7	30.70	287.7	30.70	287.7	30.70	294.7	30.76	296.0	30.81
	118	226.5	19.21	250.1	23.59	250.5	25.82	250.5	26.05	250.5	26.05	256.6	26.10	255.6	26.14
	122	181.0	14.57	200.6	17.94	199.6	19.65	200.1	19.70	200.6	19.72	206.1	19.78	205.7	19.86
110	23	239.3	7.54	285.4	9.12	331.5	10.79	354.6	11.66	377.7	12.54	416.1	14.37	424.9	14.85
	25	239.3	7.59	285.4	9.17	331.5	10.86	354.6	11.75	377.7	12.61	416.1	14.44	424.9	14.94
	30	239.3	7.68	285.4	9.29	331.5	10.99	354.6	11.88	377.7	12.77	416.1	14.64	424.9	15.12
	35	239.3	7.79	285.4	9.42	331.5	11.14	354.6	12.05	377.7	12.96	416.1	14.85	424.9	15.37
	40	239.3	7.90	285.4	9.56	331.5	11.30	354.6	12.22	377.7	13.14	416.1	15.06	424.9	15.56
	45	239.3	8.03	285.4	9.70	331.5	11.48	354.6	12.42	377.7	13.35	416.1	15.31	424.9	15.83
	50	239.3	8.16	285.4	9.87	331.5	11.68	354.6	12.62	377.7	13.57	416.1	15.55	424.9	16.07
	55	239.3	8.30	285.4	10.05	331.5	11.90	354.6	12.89	377.7	13.84	410.2	15.82	419.0	16.22
	60	239.3	8.57	285.4	10.41	331.5	12.40	354.6	13.39	377.7	14.38	399.9	16.32	408.7	16.47
	65	239.3	8.75	285.4	10.64	331.5	12.62	354.6	13.66	377.7	14.65	394.0	16.86	402.9	17.00
	70	239.3	8.83	285.4	10.73	331.5	13.21	354.6	14.53	370.5	15.95	386.7	17.71	395.5	17.89
	75	239.3	9.06	285.4	11.44	331.5	14.14	354.6	15.59	364.7	17.09	380.8	18.55	389.6	18.68
	80	236.8	10.29	282.5	13.03	328.1	16.17	346.7	17.85	351.0	19.61	366.7	20.14	375.5	20.32
	85	236.8	10.95	282.5	13.91	328.1	17.27	341.0	19.04	345.3	20.81	360.9	20.98	369.6	21.16
	90	236.8	12.41	282.5	15.81	326.7	19.61	331.0	21.69	335.3	22.44	350.7	22.62	359.5	22.84
	95	236.8	13.16	282.5	16.83	321.0	20.94	325.3	23.15	329.6	23.23	344.9	23.46	353.6	23.68
	100	236.8	14.25	282.5	18.20	316.7	22.70	321.0	24.36	325.3	24.49	340.5	24.72	349.3	24.95
	105	236.8	16.06	282.5	20.59	306.9	25.61	311.1	26.21	315.4	26.33	330.5	26.57	339.0	26.82
	110	236.8	18.04	282.5	23.21	297.4	27.92	298.2	28.06	302.7	28.15	312.1	28.43	313.3	28.70
	115	236.8	20.87	282.5	26.69	284.7	29.44	284.7	29.44	286.0	29.44	291.7	29.49	293.0	29.54
	118	228.9	19.01	245.6	22.62	247.9	24.75	247.9	24.98	249.0	24.98	254.0	25.02	252.9	25.07
	122	182.9	14.42	197.0	17.20	197.6	18.84	198.1	18.89	199.5	18.91	204.0	18.97	203.6	19.05

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN312BT3, ARUN312DT3 / ARUB312BT3, ARUB312DT3

Cooling Capacity

312,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	23	210.3	6.82	250.7	8.25	291.1	9.76	312	10.55	342.9	11.51	384.5	13.19	406	13.72
	25	210.3	6.88	250.7	8.31	291.1	9.84	312	10.66	342.9	11.6	384.5	13.32	406	13.86
	30	210.3	7.04	250.7	8.52	291.1	10.08	312	10.9	342.9	11.89	384.5	13.63	406	14.17
	35	210.3	7.15	250.7	8.66	291.1	10.24	312	11.07	342.9	12.08	384.5	13.86	406	14.41
	40	210.3	7.27	250.7	8.8	291.1	10.41	312	11.25	342.9	12.27	384.5	14.07	406	14.63
	45	210.3	7.43	250.7	8.99	291.1	10.61	312	11.49	342.9	12.52	384.5	14.36	406	14.93
	50	210.3	7.58	250.7	9.17	291.1	10.84	312	11.72	342.9	12.79	384.5	14.66	406	15.24
	55	210.3	7.7	250.7	9.33	291.1	11.05	312	11.97	342.9	13.04	384.5	14.91	401.7	15.46
	60	210.3	7.95	250.7	9.67	291.1	11.51	312	12.43	342.9	13.55	383	15.38	390.2	15.74
	65	210.3	8.12	250.7	9.88	291.1	11.72	312	12.68	342.9	13.81	377.3	15.89	385.9	16.2
	70	210.3	8.37	250.7	10.17	291.1	12.51	312	13.77	342.9	15.33	370.1	17.03	377.3	17.33
	75	210.3	8.58	250.7	10.84	291.1	13.39	312	14.77	342.9	16.44	364.4	17.84	373	18.06
	80	210.3	9.75	250.7	12.35	291.1	15.32	312	16.91	342.9	18.86	354.4	19.37	361.5	19.64
	85	210.3	10.38	250.7	13.18	291.1	16.36	312	18.04	341.4	20.01	348.6	20.18	357.2	20.45
	90	210.3	11.76	250.7	14.98	291.1	18.58	312	20.55	330	21.58	338.6	21.75	345.7	22.07
	95	210.3	12.47	250.7	15.95	291.1	19.84	**312**	**21.93**	325.7	22.34	332.8	22.56	341.4	22.88
	100	210.3	13.47	250.7	17.21	291.1	21.45	306.4	23.03	320.1	23.5	328.5	23.72	335.9	24.05
	105	210.3	15.13	250.7	19.39	289.5	24.12	298	24.67	310.4	25.18	318.6	25.39	326.4	25.75
	110	210.3	16.91	250.7	21.77	286.2	26.19	292.7	26.32	298.6	26.8	303.3	27.06	308.8	27.45
	115	210.3	19.43	250.7	24.86	272.4	27.41	280.8	27.41	287.8	27.82	290.5	27.87	291.8	28.06
	118	210.3	19.60	219.9	23.32	237.2	23.05	244.5	23.26	250.6	23.61	252.9	23.65	251.9	23.81
	122	179.9	17.75	176.4	17.73	189.0	17.55	195.3	17.59	200.7	17.87	203.1	17.93	202.8	18.09
90	23	189.4	6.1	225.6	7.34	263.3	8.66	281.4	9.34	299.5	10.05	335.7	11.41	371.9	12.6
	25	189.4	6.18	225.6	7.43	263.3	8.77	281.4	9.45	299.5	10.15	335.7	11.58	371.9	12.76
	30	189.4	6.36	225.6	7.65	263.3	9.03	281.4	9.73	299.5	10.48	335.7	11.9	371.9	13.14
	35	189.4	6.56	225.6	7.89	263.3	9.3	281.4	10.02	299.5	10.79	335.7	12.26	371.9	13.55
	40	189.4	6.75	225.6	8.12	263.3	9.58	281.4	10.33	299.5	11.12	335.7	12.63	371.9	13.95
	45	189.4	6.91	225.6	8.31	263.3	9.8	281.4	10.57	299.5	11.38	335.7	12.92	371.9	14.28
	50	189.4	7.06	225.6	8.5	263.3	10.02	281.4	10.8	299.5	11.63	335.7	13.21	371.9	14.59
	55	189.4	7.14	225.6	8.63	263.3	10.19	281.4	11.02	299.5	11.85	335.7	13.47	371.9	14.72
	60	189.4	7.41	225.6	8.97	263.3	10.59	281.4	11.46	299.5	12.33	335.7	13.99	368.8	14.89
	65	189.4	7.54	225.6	9.15	263.3	10.8	281.4	11.68	299.5	12.55	335.7	14.25	366.3	15.64
	70	189.4	7.75	225.6	9.41	263.3	11.2	281.4	12.33	299.5	13.46	335.7	15.9	359.4	16.8
	75	189.4	7.89	225.6	9.85	263.3	11.98	281.4	13.2	299.5	14.46	335.7	16.58	353.8	17.54
	80	189.4	8.84	225.6	11.15	263.3	13.68	281.4	15.07	299.5	16.51	335.7	18.33	344	19.08
	85	189.4	9.41	225.6	11.89	263.3	14.64	281.4	16.08	299.5	17.64	331.5	19.31	338.5	19.87
	90	189.4	10.63	225.6	13.46	263.3	16.6	281.4	18.3	299.5	20.08	321.8	21.13	328.7	21.44
	95	189.4	11.33	225.6	14.29	263.3	17.69	281.4	19.52	299.5	21.43	316.2	21.93	323.1	22.23
	100	189.4	11.7	225.6	14.89	263.3	18.43	281.4	20.29	299.5	21.91	312	22.87	317.6	23.12
	105	189.4	13.55	225.6	17.28	263.3	20.83	281.4	22.22	296.1	23.49	302.3	24.52	306.4	24.82
	110	189.4	15.57	225.6	19.93	263.3	22.85	281.4	23.99	284.1	25.47	287.9	26.33	290.2	26.63
	115	189.4	16.86	225.6	21.6	246.5	24.07	266.8	25.1	270.6	26.28	273.1	26.86	274.3	27.2
	118	189.4	17.90	219.9	23.32	214.7	20.24	232.3	21.29	235.6	22.30	237.8	22.79	236.8	23.08
	122	180.0	17.75	176.4	17.73	171.1	15.41	185.6	16.10	188.7	16.88	190.9	17.27	190.6	17.54
80	23	168.5	5.32	200.6	6.38	234	7.48	249.3	8.08	266	8.65	298.1	9.92	330.1	11.1
	25	168.5	5.37	200.6	6.45	234	7.54	249.3	8.16	266	8.75	298.1	10.02	330.1	11.21
	30	168.5	5.53	200.6	6.63	234	7.78	249.3	8.4	266	8.99	298.1	10.31	330.1	11.54
	35	168.5	5.68	200.6	6.82	234	8	249.3	8.62	266	9.23	298.1	10.59	330.1	11.86
	40	168.5	5.84	200.6	6.99	234	8.21	249.3	8.86	266	9.48	298.1	10.88	330.1	12.18
	45	168.5	5.92	200.6	7.08	234	8.33	249.3	8.99	266	9.61	298.1	11.03	330.1	12.35
	50	168.5	6	200.6	7.19	234	8.44	249.3	9.11	266	9.75	298.1	11.18	330.1	12.52
	55	168.5	6.09	200.6	7.31	234	8.59	249.3	9.26	266	9.93	298.1	11.39	330.1	12.73
	60	168.5	6.3	200.6	7.55	234	8.89	249.3	9.59	266	10.33	298.1	11.79	330.1	13.25
	65	168.5	6.4	200.6	7.71	234	9.08	249.3	9.78	266	10.54	298.1	12	330.1	13.55
	70	168.5	6.58	200.6	7.92	234	9.35	249.3	10.08	266	10.97	298.1	12.94	330.1	14.99
	75	168.5	6.7	200.6	8.07	234	9.81	249.3	10.75	266	11.7	298.1	13.77	330.1	15.8
	80	168.5	7.34	200.6	9.17	234	11.18	249.3	12.21	266	13.34	298.1	15.84	330.1	17.65
	85	168.5	7.83	200.6	9.75	234	11.91	249.3	13.04	266	14.28	298.1	16.87	330.1	18.11
	90	168.5	8.8	200.6	11.06	234	13.46	249.3	14.8	266	16.23	298.1	18.55	324.7	19.19
	95	168.5	9.35	200.6	11.7	234	14.38	249.3	15.72	266	17.27	298.1	19.19	317.7	19.71
	100	168.5	10.08	200.6	12.61	234	15.5	249.3	16.84	266	17.96	298.1	19.98	310.6	20.35
	105	168.5	11.49	200.6	14.43	234	17.26	249.3	18.07	266	19.25	294.5	20.77	301.7	21.36
	110	168.5	13.04	200.6	16.45	234	18.31	249.3	19.3	266	20.74	284.1	21.53	285.5	22.46
	115	168.5	13.95	200.6	17.57	234	18.92	249.3	20.29	249.3	21.23	250.8	22.02	250.8	23.36
	118	168.5	14.81	200.6	18.68	214.7	20.24	219.0	19.25	217.1	18.01	218.4	18.68	216.5	19.82
	122	168.5	16.01	177	17.62	171.1	15.41	175.0	14.56	173.9	13.64	175.4	14.16	174.3	15.06

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN312BT3, ARUN312DT3 / ARUB312BT3, ARUB312DT3

312,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	147.6	4.67	175.5	5.54	204.8	6.48	218.7	6.97	232.6	7.46	260.5	8.48	289.7	9.54
	25	147.6	4.71	175.5	5.59	204.8	6.56	218.7	7.04	232.6	7.52	260.5	8.57	289.7	9.63
	30	147.6	4.84	175.5	5.74	204.8	6.72	218.7	7.22	232.6	7.73	260.5	8.79	289.7	9.88
	35	147.6	4.98	175.5	5.9	204.8	6.91	218.7	7.41	232.6	7.94	260.5	9.01	289.7	10.15
	40	147.6	5.1	175.5	6.04	204.8	7.08	218.7	7.61	232.6	8.14	260.5	9.26	289.7	10.41
	45	147.6	5.18	175.5	6.14	204.8	7.19	218.7	7.74	232.6	8.27	260.5	9.41	289.7	10.57
	50	147.6	5.27	175.5	6.24	204.8	7.31	218.7	7.86	232.6	8.41	260.5	9.56	289.7	10.75
	55	147.6	5.36	175.5	6.37	204.8	7.43	218.7	7.98	232.6	8.56	260.5	9.75	289.7	10.97
	60	147.6	5.51	175.5	6.58	204.8	7.71	218.7	8.28	232.6	8.86	260.5	10.11	289.7	11.39
	65	147.6	5.6	175.5	6.7	204.8	7.83	218.7	8.44	232.6	9.05	260.5	10.29	289.7	11.57
	70	147.6	5.76	175.5	6.88	204.8	8.07	218.7	8.68	232.6	9.32	260.5	10.66	289.7	12.31
	75	147.6	5.85	175.5	7.01	204.8	8.22	218.7	8.99	232.6	9.75	260.5	11.39	289.7	13.03
	80	147.6	6.3	175.5	7.74	204.8	9.35	218.7	10.2	232.6	11.06	260.5	12.6	289.7	14.45
	85	147.6	6.7	175.5	8.22	204.8	9.96	218.7	10.87	232.6	11.91	260.5	13.42	289.7	15.06
	90	147.6	7.52	175.5	9.29	204.8	11.27	218.7	12.31	232.6	13.46	260.5	14.96	289.7	16.35
	95	147.6	7.95	175.5	9.87	204.8	12	218.7	13.13	232.6	14.28	260.5	15.73	289.7	16.84
	100	147.6	8.59	175.5	10.66	204.8	12.94	218.7	14.16	232.6	14.71	260.5	16.47	289.7	17.32
	105	147.6	9.74	175.5	12.15	204.8	14.28	218.7	15.11	232.6	15.99	260.5	17.35	289.7	18.33
	110	147.6	10.97	175.5	13.77	204.8	15.11	218.7	16.02	232.6	17.33	260.5	18.07	281.4	19.71
	115	147.6	11.79	175.5	14.68	204.8	15.63	218.7	16.93	232.6	17.84	260.5	18.62	265.2	20.99
	118	147.6	12.52	175.5	15.60	204.8	16.60	218.7	17.95	211.7	17.84	218.4	15.80	216.5	17.81
	122	147.6	13.50	175.5	16.89	182.7	15.85	174.7	14.76	169.5	13.50	175.4	11.97	174.3	13.53
60	23	126.8	4	150.4	4.71	175.5	5.48	186.6	5.89	199.2	6.3	224.3	7.15	247.9	8.03
	25	126.8	4.06	150.4	4.76	175.5	5.55	186.6	5.95	199.2	6.38	224.3	7.24	247.9	8.11
	30	126.8	4.15	150.4	4.89	175.5	5.69	186.6	6.12	199.2	6.54	224.3	7.42	247.9	8.34
	35	126.8	4.25	150.4	5.02	175.5	5.83	186.6	6.27	199.2	6.71	224.3	7.61	247.9	8.55
	40	126.8	4.37	150.4	5.15	175.5	5.99	186.6	6.44	199.2	6.89	224.3	7.81	247.9	8.77
	45	126.8	4.41	150.4	5.2	175.5	6.03	186.6	6.49	199.2	6.95	224.3	7.87	247.9	8.84
	50	126.8	4.45	150.4	5.24	175.5	6.09	186.6	6.55	199.2	7.01	224.3	7.95	247.9	8.92
	55	126.8	4.51	150.4	5.33	175.5	6.21	186.6	6.67	199.2	7.13	224.3	8.1	247.9	9.08
	60	126.8	4.66	150.4	5.51	175.5	6.43	186.6	6.91	199.2	7.4	224.3	8.38	247.9	9.44
	65	126.8	4.72	150.4	5.6	175.5	6.55	186.6	7.04	199.2	7.52	224.3	8.56	247.9	9.62
	70	126.8	4.84	150.4	5.76	175.5	6.73	186.6	7.22	199.2	7.74	224.3	8.8	247.9	9.99
	75	126.8	4.93	150.4	5.85	175.5	6.85	186.6	7.37	199.2	7.98	224.3	9.32	247.9	10.64
	80	126.8	5.24	150.4	6.4	175.5	7.68	186.6	8.38	199.2	9.08	224.3	10.44	247.9	12.02
	85	126.8	5.57	150.4	6.79	175.5	8.16	186.6	8.92	199.2	9.72	224.3	10.99	247.9	12.41
	90	126.8	6.24	150.4	7.68	175.5	9.23	186.6	10.08	199.2	10.91	224.3	12.29	247.9	13.54
	95	126.8	6.61	150.4	8.13	175.5	9.81	186.6	10.75	199.2	11.56	224.3	12.85	247.9	14.25
	100	126.8	7.1	150.4	8.74	175.5	10.57	186.6	11.57	199.2	12.07	224.3	13.62	247.9	14.86
	105	126.8	8.07	150.4	9.96	175.5	11.67	186.6	12.35	199.2	13.14	224.3	14.47	247.9	16.21
	110	126.8	9.08	150.4	11.3	175.5	12.59	186.6	13.1	199.2	14.19	224.3	15.48	247.9	17.68
	115	126.8	9.72	150.4	12.06	175.5	13.08	186.6	13.86	199.2	14.7	224.3	16.36	247.9	18.89
	118	126.8	10.29	150.4	12.79	175.5	13.89	186.6	14.72	199.2	15.64	218.4	15.80	216.5	17.81
	122	126.8	11.09	150.4	13.83	175.5	15.05	174.3	14.93	168.7	13.83	175.4	11.97	174.3	13.53
50	23	105.3	3.5	125.4	4.06	146.3	4.65	156	4.95	165.8	5.28	186.6	5.92	206.1	6.59
	25	105.3	3.53	125.4	4.11	146.3	4.68	156	5	165.8	5.35	186.6	5.98	206.1	6.64
	30	105.3	3.63	125.4	4.21	146.3	4.83	156	5.14	165.8	5.49	186.6	6.15	206.1	6.84
	35	105.3	3.73	125.4	4.32	146.3	4.96	156	5.29	165.8	5.64	186.6	6.32	206.1	7.02
	40	105.3	3.82	125.4	4.43	146.3	5.08	156	5.41	165.8	5.78	186.6	6.47	206.1	7.2
	45	105.3	3.88	125.4	4.5	146.3	5.15	156	5.48	165.8	5.86	186.6	6.56	206.1	7.3
	50	105.3	3.93	125.4	4.56	146.3	5.23	156	5.57	165.8	5.94	186.6	6.65	206.1	7.41
	55	105.3	4.02	125.4	4.65	146.3	5.32	156	5.65	165.8	6.03	186.6	6.78	206.1	7.53
	60	105.3	4.1	125.4	4.77	146.3	5.48	156	5.86	165.8	6.24	186.6	6.99	206.1	7.83
	65	105.3	4.14	125.4	4.85	146.3	5.57	156	5.94	165.8	6.32	186.6	7.11	206.1	7.95
	70	105.3	4.27	125.4	4.94	146.3	5.69	156	6.11	165.8	6.49	186.6	7.32	206.1	8.2
	75	105.3	4.31	125.4	5.02	146.3	5.82	156	6.19	165.8	6.61	186.6	7.45	206.1	8.37
	80	105.3	4.44	125.4	5.32	146.3	6.24	156	6.74	165.8	7.24	186.6	8.33	206.1	9.5
	85	105.3	4.73	125.4	5.61	146.3	6.61	156	7.16	165.8	7.7	186.6	8.87	206.1	10.13
	90	105.3	5.27	125.4	6.28	146.3	7.45	156	8.04	165.8	8.66	186.6	10	206.1	11.47
	95	105.3	5.57	125.4	6.65	146.3	7.87	156	8.54	165.8	9.21	186.6	10.63	206.1	12.18
	100	105.3	5.86	125.4	7.03	146.3	8.33	156	9.04	165.8	9.75	186.6	11.3	206.1	12.93
	105	105.3	6.4	125.4	7.76	146.3	9.21	156	9.98	165.8	10.79	186.6	12.52	206.1	14.39
	110	105.3	7.07	125.4	8.58	146.3	10.21	156	11.09	165.8	12.01	186.6	13.98	206.1	16.07
	115	105.3	7.58	125.4	9.21	146.3	10.97	156	11.93	165.8	12.93	186.6	15.07	206.1	17.33
	118	105.3	8.18	125.4	9.99	146.3	11.92	156.0	12.97	165.8	14.08	186.6	15.80	206.1	17.81
	122	105.3	9.03	125.4	11.04	146.3	13.18	156.0	14.40	165.8	13.83	175.4	11.97	174.3	13.53

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN336BT3, ARUN336DT3 / ARUB336BT3, ARUB336DT3 Cooling Capacity

336,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	305.5	9.44	362.9	11.42	421.9	13.50	437.4	14.60	443.6	15.69	459.0	17.99	470.0	18.61
	25	305.5	9.48	362.9	11.48	421.9	13.59	437.4	14.68	443.6	15.80	459.0	18.11	470.0	18.73
	30	305.5	9.61	362.9	11.63	421.9	13.75	437.4	14.86	443.6	15.98	459.0	18.31	470.0	18.95
	35	305.5	9.71	362.9	11.78	421.9	13.91	437.4	15.03	443.6	16.17	459.0	18.53	470.0	19.18
	40	305.5	9.84	362.9	11.90	421.9	14.08	437.4	15.22	443.6	16.36	459.0	18.75	470.0	19.41
	45	305.5	9.94	362.9	12.02	421.9	14.24	437.4	15.38	443.6	16.52	459.0	18.96	470.0	19.60
	50	305.5	10.04	362.9	12.15	421.9	14.37	437.4	15.53	443.6	16.70	459.0	19.14	470.0	19.80
	55	305.5	10.21	362.9	12.37	421.9	14.64	431.2	15.86	437.4	17.03	452.7	19.47	463.7	19.94
	60	305.5	10.54	362.9	12.81	415.7	15.25	421.6	16.47	426.5	17.69	441.8	20.08	452.7	20.16
	65	305.5	10.76	362.9	13.09	409.5	15.53	415.7	16.81	420.3	18.03	435.5	20.75	446.5	20.91
	70	305.5	10.35	362.9	12.58	401.7	15.48	406.4	17.03	412.6	18.69	427.7	20.76	438.6	20.97
	75	305.5	10.61	362.9	13.41	395.5	16.57	400.2	18.28	406.4	20.04	421.4	21.74	432.4	21.90
	80	305.5	12.06	362.9	15.27	384.6	18.95	389.3	20.92	395.5	22.99	410.4	23.61	421.4	23.82
	85	305.5	12.84	362.9	16.31	378.4	20.24	384.6	22.31	389.3	24.38	404.2	24.59	415.1	24.80
	90	305.5	14.55	356.7	18.53	367.6	22.99	372.2	25.42	378.4	26.30	393.2	26.51	404.2	26.77
	95	308.8	15.43	354.3	19.73	365.2	24.54	371.5	27.13	376.2	27.23	391.0	27.49	402.1	27.75
	100	308.8	16.70	348.0	21.33	359.0	26.60	365.2	28.55	369.9	28.71	386.3	28.97	397.4	29.24
	105	308.8	18.83	338.7	24.14	349.5	30.00	355.0	30.70	360.4	30.86	372.8	31.14	378.3	31.44
	110	308.8	21.14	324.6	27.20	338.2	32.73	339.2	32.89	344.2	33.00	351.5	33.32	352.8	33.64
	115	307.2	24.46	312.8	31.29	312.8	34.50	312.8	34.50	312.8	34.50	317.4	34.56	318.8	34.63
	118	267.2	20.72	272.0	26.51	272.4	29.01	272.4	29.27	272.4	29.27	276.3	29.33	275.2	29.38
	122	213.5	15.72	218.2	20.16	217.1	22.09	217.6	22.14	218.2	22.16	221.9	22.23	221.5	22.32
120	23	278.0	8.86	331.8	10.72	385.6	12.68	413.2	13.70	431.7	14.73	451.3	16.89	460.7	17.47
	25	278.0	8.91	331.8	10.78	385.6	12.76	413.2	13.78	431.7	14.83	451.3	17.00	460.7	17.58
	30	278.0	9.02	331.8	10.91	385.6	12.91	413.2	13.95	431.7	15.00	451.3	17.19	460.7	17.79
	35	278.0	9.14	331.8	11.04	385.6	13.06	413.2	14.13	431.7	15.18	451.3	17.40	460.7	18.01
	40	278.0	9.25	331.8	11.19	385.6	13.23	413.2	14.30	431.7	15.38	451.3	17.63	460.7	18.24
	45	278.0	9.36	331.8	11.31	385.6	13.38	413.2	14.48	431.7	15.55	451.3	17.81	460.7	18.45
	50	278.0	9.45	331.8	11.44	385.6	13.53	413.2	14.63	431.7	15.72	451.3	18.02	460.7	18.65
	55	278.0	9.61	331.8	11.65	385.6	13.79	413.2	14.94	427.0	16.04	445.0	18.34	456.0	18.79
	60	278.0	9.93	331.8	12.07	385.6	14.37	410.2	15.51	414.8	16.66	434.0	18.91	443.4	19.24
	65	278.0	10.13	331.8	12.33	385.6	14.63	404.0	15.83	410.2	16.98	427.8	19.54	438.7	19.69
	70	278.0	9.94	331.8	12.08	385.6	14.86	396.3	16.35	400.9	17.94	419.9	19.93	429.3	20.13
	75	278.0	10.19	331.8	12.87	385.6	15.90	390.2	17.54	396.3	19.23	413.7	20.87	424.6	21.02
	80	278.0	11.58	331.8	14.66	374.8	18.19	379.4	20.08	384.0	22.07	402.7	22.66	412.1	22.86
	85	278.0	12.33	331.8	15.66	368.7	19.43	373.3	21.42	379.4	23.41	396.4	23.61	407.4	23.81
	90	278.0	13.97	331.8	17.79	357.9	22.07	362.5	24.40	367.1	25.25	385.5	25.45	394.9	25.70
	95	281.0	14.81	335.3	18.94	355.5	23.56	360.1	26.04	366.3	26.14	383.2	26.39	394.3	26.64
	100	281.0	16.03	335.3	20.48	349.3	25.54	355.5	27.41	360.1	27.56	378.4	27.82	387.9	28.07
	105	281.0	18.06	330.0	23.19	340.0	28.82	345.5	29.47	350.0	29.63	367.4	29.89	373.5	30.17
	110	281.0	20.29	321.6	26.12	332.0	31.42	333.0	31.57	337.9	31.68	348.5	31.99	349.8	32.29
	115	273.2	23.48	309.8	30.03	309.8	33.12	309.8	33.12	309.8	33.12	317.4	33.18	318.8	33.24
	118	243.9	20.72	269.4	25.45	269.7	27.85	269.7	28.10	269.7	28.10	276.4	28.15	275.2	28.20
	122	194.9	15.72	216.0	19.35	215.0	21.20	215.5	21.25	216.0	21.28	221.9	21.34	221.5	21.43
110	23	257.7	8.13	307.4	9.84	357.0	11.64	381.9	12.58	406.7	13.53	448.1	15.51	457.6	16.02
	25	257.7	8.19	307.4	9.90	357.0	11.71	381.9	12.67	406.7	13.61	448.1	15.58	457.6	16.12
	30	257.7	8.28	307.4	10.02	357.0	11.85	381.9	12.82	406.7	13.78	448.1	15.79	457.6	16.32
	35	257.7	8.41	307.4	10.17	357.0	12.02	381.9	13.00	406.7	13.98	448.1	16.02	457.6	16.58
	40	257.7	8.52	307.4	10.31	357.0	12.19	381.9	13.18	406.7	14.17	448.1	16.24	457.6	16.79
	45	257.7	8.67	307.4	10.47	357.0	12.39	381.9	13.40	406.7	14.41	448.1	16.51	457.6	17.08
	50	257.7	8.80	307.4	10.65	357.0	12.60	381.9	13.62	406.7	14.64	448.1	16.78	457.6	17.34
	55	257.7	8.95	307.4	10.85	357.0	12.84	381.9	13.91	406.7	14.93	441.8	17.07	451.3	17.50
	60	257.7	9.24	307.4	11.24	357.0	13.38	381.9	14.45	406.7	15.52	430.7	17.61	440.2	17.77
	65	257.7	9.44	307.4	11.48	357.0	13.62	381.9	14.74	406.7	15.81	424.3	18.19	433.8	18.34
	70	257.7	9.53	307.4	11.58	357.0	14.25	381.9	15.68	398.9	17.20	416.4	19.11	425.9	19.30
	75	257.7	9.77	307.4	12.34	357.0	15.25	381.9	16.82	392.7	18.44	410.1	20.02	419.6	20.16
	80	255.1	11.10	304.2	14.06	353.4	17.44	373.4	19.25	378.0	21.16	394.9	21.73	404.3	21.92
	85	255.1	11.82	304.2	15.01	353.4	18.63	367.2	20.54	371.8	22.45	388.7	22.64	398.1	22.83
	90	255.1	13.39	304.2	17.06	351.9	21.16	356.5	23.40	361.1	24.21	377.7	24.40	387.1	24.64
	95	255.1	14.20	304.2	18.16	345.7	22.59	350.3	24.97	354.9	25.07	371.4	25.31	380.8	25.54
	100	255.1	15.37	304.2	19.64	341.1	24.49	345.7	26.28	350.3	26.43	366.7	26.67	376.1	26.91
	105	255.1	17.33	304.2	22.22	330.5	27.63	335.0	28.27	339.6	28.41	355.9	28.66	365.0	28.94
	110	255.1	19.46	304.2	25.04	320.2	30.13	321.2	30.28	325.9	30.38	336.1	30.67	337.4	30.97
	115	255.1	22.51	304.2	28.80	306.6	31.76	306.6	31.76	308.0	31.76	314.2	31.82	315.6	31.87
	118	246.5	20.51	264.5	24.40	267.0	26.71	267.0	26.95	268.2	26.95	273.5	27.00	272.4	27.04
	122	196.9	15.56	212.2	18.55	212.8	20.33	213.3	20.38	214.8	20.40	219.6	20.46	219.3	20.55

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN336BT3, ARUN336DT3 / ARUB336BT3, ARUB336DT3

336,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	23	226.5	7.36	270	8.9	313.5	10.53	336	11.38	369.3	12.42	414.1	14.23	437.2	14.8
	25	226.5	7.42	270	8.97	313.5	10.61	336	11.5	369.3	12.52	414.1	14.37	437.2	14.95
	30	226.5	7.6	270	9.2	313.5	10.88	336	11.76	369.3	12.83	414.1	14.7	437.2	15.29
	35	226.5	7.71	270	9.35	313.5	11.05	336	11.95	369.3	13.04	414.1	14.95	437.2	15.54
	40	226.5	7.85	270	9.49	313.5	11.23	336	12.14	369.3	13.24	414.1	15.18	437.2	15.78
	45	226.5	8.02	270	9.7	313.5	11.45	336	12.4	369.3	13.51	414.1	15.5	437.2	16.11
	50	226.5	8.17	270	9.89	313.5	11.69	336	12.64	369.3	13.79	414.1	15.81	437.2	16.44
	55	226.5	8.31	270	10.07	313.5	11.92	336	12.91	369.3	14.07	414.1	16.09	432.6	16.68
	60	226.5	8.58	270	10.43	313.5	12.42	336	13.41	369.3	14.62	412.5	16.59	420.2	16.98
	65	226.5	8.76	270	10.66	313.5	12.64	336	13.68	369.3	14.89	406.3	17.14	415.6	17.48
	70	226.5	9.03	270	10.97	313.5	13.5	336	14.86	369.3	16.54	398.6	18.38	406.3	18.7
	75	226.5	9.26	270	11.69	313.5	14.45	336	15.94	369.3	17.74	392.4	19.25	401.7	19.48
	80	226.5	10.52	270	13.32	313.5	16.53	336	18.24	369.3	20.35	381.6	20.9	389.3	21.19
	85	226.5	11.2	270	14.22	313.5	17.65	336	19.46	367.7	21.59	375.4	21.77	384.7	22.06
	90	226.5	12.69	270	16.16	313.5	20.05	336	22.17	355.3	23.28	364.6	23.46	372.3	23.81
	95	226.5	13.46	270	17.2	313.5	21.4	**336**	**23.66**	350.7	24.11	358.4	24.34	367.7	24.69
	100	226.5	14.53	270	18.56	313.5	23.15	330	24.84	344.7	25.35	353.7	25.59	361.7	25.95
	105	226.5	16.33	270	20.92	311.8	26.03	320.9	26.62	334.3	27.16	343.1	27.4	351.5	27.78
	110	226.5	18.25	270	23.48	308.2	28.25	315.2	28.39	321.5	28.91	326.6	29.2	332.6	29.62
	115	226.5	20.97	270	26.82	293.3	29.58	302.4	29.58	310	30.02	312.9	30.07	314.2	30.28
	118	226.5	21.15	236.8	25.16	255.4	24.87	263.3	25.09	269.9	25.47	272.4	25.52	271.3	25.69
	122	193.8	19.15	189.9	19.13	203.6	18.93	210.4	18.98	216.2	19.28	218.7	19.34	218.4	19.52
90	23	204	6.58	243	7.92	283.5	9.34	303	10.07	322.5	10.84	361.5	12.32	400.5	13.6
	25	204	6.67	243	8.02	283.5	9.46	303	10.2	322.5	10.95	361.5	12.49	400.5	13.77
	30	204	6.86	243	8.26	283.5	9.74	303	10.5	322.5	11.31	361.5	12.84	400.5	14.18
	35	204	7.07	243	8.52	283.5	10.03	303	10.81	322.5	11.64	361.5	13.23	400.5	14.62
	40	204	7.28	243	8.76	283.5	10.34	303	11.14	322.5	12	361.5	13.63	400.5	15.05
	45	204	7.45	243	8.97	283.5	10.58	303	11.4	322.5	12.28	361.5	13.94	400.5	15.4
	50	204	7.61	243	9.17	283.5	10.81	303	11.66	322.5	12.55	361.5	14.25	400.5	15.74
	55	204	7.71	243	9.31	283.5	11	303	11.89	322.5	12.78	361.5	14.53	400.5	15.88
	60	204	7.99	243	9.68	283.5	11.42	303	12.36	322.5	13.3	361.5	15.09	397.1	16.06
	65	204	8.13	243	9.87	283.5	11.66	303	12.6	322.5	13.54	361.5	15.38	394.5	16.87
	70	204	8.37	243	10.15	283.5	12.08	303	13.3	322.5	14.52	361.5	17.15	387	18.12
	75	204	8.51	243	10.62	283.5	12.93	303	14.24	322.5	15.61	361.5	17.89	381	18.93
	80	204	9.54	243	12.03	283.5	14.76	303	16.26	322.5	17.81	361.5	19.78	370.5	20.58
	85	204	10.15	243	12.83	283.5	15.79	303	17.34	322.5	19.04	357	20.83	364.5	21.43
	90	204	11.47	243	14.52	283.5	17.91	303	19.74	322.5	21.67	346.5	22.79	354	23.13
	95	204	12.22	243	15.42	283.5	19.08	303	21.06	322.5	23.13	340.5	23.66	348	23.98
	100	204	12.62	243	16.07	283.5	19.88	303	21.89	322.5	23.64	336	24.68	342	24.95
	105	204	14.62	243	18.64	283.5	22.48	303	23.97	318.9	25.34	325.6	26.45	330	26.78
	110	204	16.8	243	21.5	283.5	24.66	303	25.88	306	27.48	310	28.41	312.5	28.73
	115	204	18.19	243	23.31	265.5	25.97	287.3	27.08	291.4	28.35	294.1	28.97	295.4	29.35
	118	204.0	19.32	236.8	25.16	231.2	21.83	250.1	22.97	253.7	24.06	256.1	24.58	255.0	24.90
	122	193.8	19.15	189.9	19.13	184.2	16.62	199.9	17.37	203.2	18.22	205.6	18.64	205.3	18.92
80	23	181.5	5.74	216	6.88	252	8.07	268.5	8.72	286.5	9.33	321	10.7	355.5	11.98
	25	181.5	5.8	216	6.96	252	8.14	268.5	8.8	286.5	9.44	321	10.81	355.5	12.09
	30	181.5	5.97	216	7.15	252	8.39	268.5	9.06	286.5	9.7	321	11.12	355.5	12.45
	35	181.5	6.13	216	7.36	252	8.64	268.5	9.3	286.5	9.96	321	11.43	355.5	12.8
	40	181.5	6.3	216	7.55	252	8.86	268.5	9.56	286.5	10.23	321	11.73	355.5	13.14
	45	181.5	6.39	216	7.64	252	8.99	268.5	9.7	286.5	10.36	321	11.9	355.5	13.32
	50	181.5	6.47	216	7.76	252	9.1	268.5	9.83	286.5	10.52	321	12.06	355.5	13.51
	55	181.5	6.57	216	7.89	252	9.27	268.5	9.99	286.5	10.71	321	12.29	355.5	13.74
	60	181.5	6.8	216	8.15	252	9.6	268.5	10.35	286.5	11.14	321	12.72	355.5	14.29
	65	181.5	6.9	216	8.31	252	9.79	268.5	10.55	286.5	11.37	321	12.95	355.5	14.62
	70	181.5	7.1	216	8.54	252	10.09	268.5	10.88	286.5	11.83	321	13.97	355.5	16.17
	75	181.5	7.23	216	8.71	252	10.58	268.5	11.6	286.5	12.62	321	14.85	355.5	17.05
	80	181.5	7.92	216	9.89	252	12.06	268.5	13.18	286.5	14.39	321	17.09	355.5	19.05
	85	181.5	8.45	216	10.52	252	12.85	268.5	14.06	286.5	15.41	321	18.21	355.5	19.54
	90	181.5	9.5	216	11.93	252	14.52	268.5	15.97	286.5	17.51	321	20.01	349.7	20.7
	95	181.5	10.09	216	12.62	252	15.51	268.5	16.96	286.5	18.63	321	20.7	342.2	21.27
	100	181.5	10.88	216	13.6	252	16.73	268.5	18.17	286.5	19.37	321	21.56	334.5	21.96
	105	181.5	12.4	216	15.57	252	18.62	268.5	19.5	286.5	20.77	317.2	22.41	324.9	23.04
	110	181.5	14.06	216	17.75	252	19.76	268.5	20.82	286.5	22.38	306	23.23	307.5	24.23
	115	181.5	15.05	216	18.96	252	20.41	268.5	21.89	268.5	22.9	270.1	23.76	270.1	25.2
	118	181.5	15.98	216.0	20.15	231.2	21.83	235.8	20.77	233.8	19.43	235.2	20.16	233.2	21.38
	122	181.5	17.27	190.6	19.01	184.2	16.62	188.4	15.71	187.3	14.71	188.9	15.28	187.7	16.25

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN336BT3, ARUN336DT3 / ARUB336BT3, ARUB336DT3 Cooling Capacity

336,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	159	5.04	189	5.98	220.5	7	235.5	7.52	250.5	8.04	280.5	9.15	312	10.29
	25	159	5.09	189	6.03	220.5	7.07	235.5	7.59	250.5	8.12	280.5	9.25	312	10.39
	30	159	5.22	189	6.19	220.5	7.25	235.5	7.79	250.5	8.34	280.5	9.48	312	10.66
	35	159	5.37	189	6.36	220.5	7.45	235.5	8	250.5	8.56	280.5	9.72	312	10.95
	40	159	5.5	189	6.52	220.5	7.63	235.5	8.21	250.5	8.78	280.5	9.99	312	11.23
	45	159	5.58	189	6.62	220.5	7.76	235.5	8.35	250.5	8.92	280.5	10.15	312	11.4
	50	159	5.68	189	6.74	220.5	7.89	235.5	8.48	250.5	9.07	280.5	10.32	312	11.6
	55	159	5.78	189	6.87	220.5	8.02	235.5	8.61	250.5	9.23	280.5	10.52	312	11.83
	60	159	5.95	189	7.1	220.5	8.31	235.5	8.94	250.5	9.56	280.5	10.91	312	12.29
	65	159	6.05	189	7.23	220.5	8.45	235.5	9.1	250.5	9.76	280.5	11.11	312	12.49
	70	159	6.21	189	7.43	220.5	8.71	235.5	9.37	250.5	10.06	280.5	11.5	312	13.28
	75	159	6.31	189	7.56	220.5	8.87	235.5	9.69	250.5	10.52	280.5	12.29	312	14.06
	80	159	6.8	189	8.35	220.5	10.09	235.5	11.01	250.5	11.93	280.5	13.59	312	15.59
	85	159	7.23	189	8.87	220.5	10.75	235.5	11.73	250.5	12.85	280.5	14.48	312	16.25
	90	159	8.12	189	10.02	220.5	12.16	235.5	13.28	250.5	14.52	280.5	16.14	312	17.64
	95	159	8.58	189	10.65	220.5	12.95	235.5	14.16	250.5	15.41	280.5	16.98	312	18.17
	100	159	9.27	189	11.5	220.5	13.97	235.5	15.28	250.5	15.87	280.5	17.77	312	18.68
	105	159	10.51	189	13.11	220.5	15.4	235.5	16.3	250.5	17.25	280.5	18.72	312	19.78
	110	159	11.83	189	14.85	220.5	16.3	235.5	17.28	250.5	18.7	280.5	19.49	303	21.27
	115	159	12.72	189	15.84	220.5	16.86	235.5	18.27	250.5	19.24	280.5	20.08	285.6	22.64
	118	159	13.50	189.0	16.83	220.5	17.91	235.5	19.36	227.9	19.24	235.2	17.04	233.2	19.21
	122	159	14.57	189.0	18.22	196.8	17.10	188.2	15.92	182.6	14.57	188.9	12.92	187.7	14.60
60	23	136.5	4.32	162	5.09	189	5.92	201	6.36	214.5	6.8	241.5	7.72	267	8.67
	25	136.5	4.38	162	5.13	189	5.99	201	6.42	214.5	6.89	241.5	7.81	267	8.75
	30	136.5	4.48	162	5.28	189	6.14	201	6.6	214.5	7.06	241.5	8.01	267	8.99
	35	136.5	4.59	162	5.42	189	6.29	201	6.77	214.5	7.24	241.5	8.21	267	9.23
	40	136.5	4.72	162	5.56	189	6.46	201	6.95	214.5	7.43	241.5	8.43	267	9.46
	45	136.5	4.76	162	5.61	189	6.51	201	7	214.5	7.5	241.5	8.49	267	9.53
	50	136.5	4.8	162	5.65	189	6.57	201	7.07	214.5	7.56	241.5	8.58	267	9.63
	55	136.5	4.86	162	5.75	189	6.7	201	7.2	214.5	7.69	241.5	8.74	267	9.79
	60	136.5	5.03	162	5.95	189	6.93	201	7.46	214.5	7.99	241.5	9.04	267	10.19
	65	136.5	5.09	162	6.05	189	7.07	201	7.59	214.5	8.12	241.5	9.23	267	10.38
	70	136.5	5.22	162	6.21	189	7.26	201	7.79	214.5	8.35	241.5	9.5	267	10.78
	75	136.5	5.32	162	6.31	189	7.39	201	7.95	214.5	8.61	241.5	10.06	267	11.48
	80	136.5	5.65	162	6.9	189	8.28	201	9.04	214.5	9.79	241.5	11.26	267	12.97
	85	136.5	6.01	162	7.33	189	8.81	201	9.63	214.5	10.48	241.5	11.86	267	13.39
	90	136.5	6.74	162	8.28	189	9.96	201	10.88	214.5	11.77	241.5	13.26	267	14.6
	95	136.5	7.13	162	8.77	189	10.58	201	11.6	214.5	12.47	241.5	13.86	267	15.38
	100	136.5	7.66	162	9.43	189	11.4	201	12.49	214.5	13.03	241.5	14.7	267	16.04
	105	136.5	8.71	162	10.74	189	12.59	201	13.32	214.5	14.17	241.5	15.62	267	17.48
	110	136.5	9.79	162	12.19	189	13.58	201	14.13	214.5	15.31	241.5	16.7	267	19.07
	115	136.5	10.48	162	13.01	189	14.11	201	14.95	214.5	15.85	241.5	17.65	267	20.38
	118	136.5	11.10	162.0	13.80	189.0	14.98	201.0	15.88	214.5	16.88	235.2	17.04	233.2	19.21
	122	136.5	11.96	162.0	14.92	189.0	16.23	187.7	16.11	181.7	14.92	188.9	12.92	187.7	14.60
50	23	113.4	3.77	135	4.38	157.5	5.02	168	5.34	178.5	5.7	201	6.38	222	7.1
	25	113.4	3.81	135	4.44	157.5	5.05	168	5.39	178.5	5.77	201	6.45	222	7.17
	30	113.4	3.92	135	4.55	157.5	5.21	168	5.55	178.5	5.92	201	6.63	222	7.38
	35	113.4	4.02	135	4.66	157.5	5.35	168	5.7	178.5	6.08	201	6.81	222	7.57
	40	113.4	4.13	135	4.78	157.5	5.49	168	5.84	178.5	6.23	201	6.98	222	7.77
	45	113.4	4.19	135	4.85	157.5	5.56	168	5.92	178.5	6.32	201	7.07	222	7.88
	50	113.4	4.24	135	4.92	157.5	5.64	168	6.01	178.5	6.41	201	7.18	222	7.99
	55	113.4	4.33	135	5.01	157.5	5.73	168	6.1	178.5	6.5	201	7.31	222	8.13
	60	113.4	4.42	135	5.15	157.5	5.92	168	6.32	178.5	6.73	201	7.54	222	8.44
	65	113.4	4.47	135	5.24	157.5	6.01	168	6.41	178.5	6.82	201	7.68	222	8.58
	70	113.4	4.61	135	5.33	157.5	6.14	168	6.59	178.5	7	201	7.9	222	8.85
	75	113.4	4.65	135	5.42	157.5	6.28	168	6.68	178.5	7.13	201	8.04	222	9.03
	80	113.4	4.79	135	5.73	157.5	6.73	168	7.27	178.5	7.81	201	8.99	222	10.25
	85	113.4	5.1	135	6.05	157.5	7.13	168	7.72	178.5	8.31	201	9.57	222	10.93
	90	113.4	5.69	135	6.77	157.5	8.04	168	8.67	178.5	9.35	201	10.79	222	12.37
	95	113.4	6.01	135	7.18	157.5	8.49	168	9.21	178.5	9.93	201	11.47	222	13.14
	100	113.4	6.32	135	7.59	157.5	8.99	168	9.75	178.5	10.52	201	12.19	222	13.95
	105	113.4	6.91	135	8.38	157.5	9.94	168	10.77	178.5	11.64	201	13.51	222	15.52
	110	113.4	7.63	135	9.26	157.5	11.02	168	11.97	178.5	12.96	201	15.08	222	17.34
	115	113.4	8.17	135	9.93	157.5	11.83	168	12.87	178.5	13.95	201	16.25	222	18.69
	118	113.4	8.83	135.0	10.78	157.5	12.86	168.0	14.00	178.5	15.19	201.0	17.04	222.0	19.21
	122	113.4	9.74	135.0	11.91	157.5	14.22	168.0	15.54	178.5	14.92	188.9	12.92	187.7	14.60

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN360BT3, ARUN360DT3 / ARUB360BT3, ARUB360DT3

360,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	327.4	10.14	388.9	12.27	452.0	14.51	468.6	15.69	475.3	16.86	491.8	19.33	503.5	20.00
	25	327.4	10.18	388.9	12.33	452.0	14.60	468.6	15.77	475.3	16.98	491.8	19.46	503.5	20.13
	30	327.4	10.32	388.9	12.49	452.0	14.77	468.6	15.97	475.3	17.17	491.8	19.68	503.5	20.36
	35	327.4	10.44	388.9	12.65	452.0	14.95	468.6	16.15	475.3	17.38	491.8	19.91	503.5	20.61
	40	327.4	10.57	388.9	12.79	452.0	15.13	468.6	16.35	475.3	17.58	491.8	20.15	503.5	20.85
	45	327.4	10.68	388.9	12.92	452.0	15.29	468.6	16.52	475.3	17.75	491.8	20.37	503.5	21.06
	50	327.4	10.79	388.9	13.05	452.0	15.44	468.6	16.69	475.3	17.94	491.8	20.56	503.5	21.28
	55	327.4	10.97	388.9	13.29	452.0	15.73	462.0	17.04	468.6	18.30	485.1	20.92	496.8	21.42
	60	327.4	11.32	388.9	13.77	445.4	16.39	451.7	17.70	457.0	19.01	473.3	21.57	485.1	21.66
	65	327.4	11.56	388.9	14.06	438.7	16.69	445.4	18.06	450.3	19.37	466.6	22.29	478.3	22.47
	70	327.4	11.12	388.9	13.52	430.4	16.63	435.4	18.30	442.0	20.08	458.2	22.30	470.0	22.53
	75	327.4	11.40	388.9	14.41	423.8	17.80	428.7	19.63	435.4	21.53	451.5	23.36	463.2	23.53
	80	327.4	12.96	388.9	16.41	412.1	20.36	417.1	22.47	423.8	24.70	439.7	25.36	451.5	25.59
	85	327.4	13.79	388.9	17.52	405.5	21.75	412.1	23.97	417.1	26.20	433.0	26.42	444.8	26.64
	90	327.4	15.63	382.2	19.91	393.8	24.70	398.8	27.31	405.5	28.26	421.3	28.48	433.0	28.76
	95	330.9	16.58	379.6	21.19	391.3	26.37	398.0	29.15	403.1	29.26	419.0	29.54	430.8	29.81
	100	330.9	17.94	372.8	22.92	384.6	28.58	391.3	30.68	396.4	30.84	413.9	31.13	425.8	31.41
	105	330.9	20.23	362.9	25.93	374.5	32.24	380.3	32.98	386.1	33.16	399.5	33.46	405.3	33.78
	110	330.9	22.71	347.8	29.23	362.4	35.16	363.5	35.34	368.8	35.45	376.6	35.80	378.0	36.14
	115	329.2	26.28	335.2	33.61	335.2	37.07	335.2	37.07	335.2	37.07	340.0	37.14	341.5	37.20
	118	286.2	22.27	291.4	28.48	291.8	31.17	291.8	31.45	291.8	31.45	296.1	31.51	294.8	31.57
	122	228.7	16.89	233.7	21.66	232.6	23.73	233.2	23.79	233.7	23.81	237.7	23.88	237.3	23.98
120	23	297.9	9.52	355.5	11.52	413.1	13.62	442.7	14.72	462.5	15.83	483.5	18.14	493.6	18.77
	25	297.9	9.57	355.5	11.59	413.1	13.71	442.7	14.81	462.5	15.93	483.5	18.26	493.6	18.89
	30	297.9	9.69	355.5	11.73	413.1	13.87	442.7	14.99	462.5	16.12	483.5	18.47	493.6	19.11
	35	297.9	9.82	355.5	11.86	413.1	14.03	442.7	15.19	462.5	16.31	483.5	18.69	493.6	19.35
	40	297.9	9.93	355.5	12.02	413.1	14.22	442.7	15.37	462.5	16.52	483.5	18.94	493.6	19.60
	45	297.9	10.05	355.5	12.15	413.1	14.37	442.7	15.55	462.5	16.70	483.5	19.14	493.6	19.82
	50	297.9	10.16	355.5	12.29	413.1	14.54	442.7	15.71	462.5	16.89	483.5	19.36	493.6	20.04
	55	297.9	10.33	355.5	12.52	413.1	14.82	442.7	16.05	457.6	17.23	476.8	19.70	488.5	20.19
	60	297.9	10.66	355.5	12.96	413.1	15.43	439.4	16.67	444.4	17.90	465.0	20.32	475.1	20.67
	65	297.9	10.89	355.5	13.24	413.1	15.71	432.9	17.01	439.4	18.24	458.3	20.99	470.1	21.16
	70	297.9	10.68	355.5	12.98	413.1	15.97	424.6	17.57	429.6	19.28	449.9	21.41	460.0	21.63
	75	297.9	10.95	355.5	13.83	413.1	17.09	418.1	18.85	424.6	20.67	443.2	22.43	455.0	22.59
	80	297.9	12.44	355.5	15.75	401.6	19.54	406.5	21.57	411.5	23.71	431.4	24.35	441.5	24.56
	85	297.9	13.24	355.5	16.82	395.0	20.88	399.9	23.01	406.5	25.15	424.7	25.36	436.5	25.58
	90	297.9	15.00	355.5	19.12	383.5	23.71	388.4	26.22	393.4	27.13	413.0	27.34	423.1	27.61
	95	301.0	15.91	359.3	20.34	380.9	25.31	385.9	27.98	392.5	28.09	410.5	28.35	422.4	28.62
	100	301.0	17.22	359.3	22.00	374.2	27.44	380.9	29.45	385.9	29.61	405.5	29.88	415.6	30.16
	105	301.0	19.41	353.5	24.91	364.3	30.97	370.1	31.66	375.0	31.84	393.6	32.11	400.2	32.41
	110	301.0	21.80	344.5	28.06	355.7	33.76	356.8	33.92	362.1	34.04	373.3	34.37	374.8	34.70
	115	292.7	25.23	331.9	32.27	331.9	35.59	331.9	35.59	331.9	35.59	340.1	35.65	341.6	35.71
	118	261.4	22.27	288.6	27.34	289.0	29.92	289.0	30.19	289.0	30.19	296.1	30.25	294.9	30.30
	122	208.8	16.89	231.5	20.79	230.3	22.78	230.9	22.83	231.5	22.86	237.8	22.93	237.4	23.02
110	23	276.1	8.74	329.3	10.57	382.5	12.51	409.1	13.52	435.8	14.53	480.1	16.66	490.3	17.21
	25	276.1	8.80	329.3	10.63	382.5	12.58	409.1	13.61	435.8	14.62	480.1	16.74	490.3	17.31
	30	276.1	8.90	329.3	10.77	382.5	12.74	409.1	13.77	435.8	14.80	480.1	16.97	490.3	17.53
	35	276.1	9.03	329.3	10.92	382.5	12.91	409.1	13.97	435.8	15.02	480.1	17.21	490.3	17.82
	40	276.1	9.16	329.3	11.08	382.5	13.10	409.1	14.16	435.8	15.23	480.1	17.45	490.3	18.03
	45	276.1	9.31	329.3	11.25	382.5	13.31	409.1	14.39	435.8	15.48	480.1	17.74	490.3	18.35
	50	276.1	9.46	329.3	11.44	382.5	13.53	409.1	14.63	435.8	15.73	480.1	18.03	490.3	18.63
	55	276.1	9.62	329.3	11.65	382.5	13.80	409.1	14.95	435.8	16.04	473.3	18.34	483.5	18.80
	60	276.1	9.93	329.3	12.07	382.5	14.37	409.1	15.52	435.8	16.67	461.4	18.92	471.6	19.09
	65	276.1	10.14	329.3	12.33	382.5	14.63	409.1	15.83	435.8	16.98	454.7	19.54	464.8	19.70
	70	276.1	10.24	329.3	12.44	382.5	15.31	409.1	16.85	427.4	18.48	446.2	20.53	456.3	20.74
	75	276.1	10.50	329.3	13.26	382.5	16.38	409.1	18.07	420.8	19.82	439.4	21.50	449.6	21.66
	80	273.3	11.93	326.0	15.10	378.6	18.74	400.0	20.69	405.0	22.73	423.1	23.35	433.2	23.55
	85	273.3	12.70	326.0	16.13	378.6	20.02	393.4	22.07	398.4	24.12	416.4	24.32	426.5	24.53
	90	273.3	14.39	326.0	18.33	377.0	22.73	381.9	25.14	386.9	26.01	404.7	26.22	414.8	26.47
	95	273.3	15.26	326.0	19.51	370.4	24.27	375.3	26.83	380.3	26.93	398.0	27.19	408.0	27.44
	100	273.3	16.52	326.0	21.10	365.5	26.31	370.4	28.24	375.3	28.39	392.9	28.66	403.0	28.92
	105	273.3	18.62	326.0	23.87	354.1	29.69	359.0	30.38	363.9	30.53	381.3	30.80	391.1	31.09
	110	273.3	20.91	326.0	26.90	343.1	32.37	344.1	32.53	349.2	32.64	360.1	32.95	361.5	33.27
	115	273.3	24.19	326.0	30.94	328.5	34.12	328.5	34.12	330.0	34.12	336.6	34.18	338.1	34.24
	118	264.1	22.04	283.4	26.22	286.0	28.69	286.0	28.95	287.3	28.95	293.1	29.00	291.9	29.06
	122	211.0	16.72	227.3	19.93	228.0	21.84	228.6	21.89	230.1	21.92	235.3	21.99	234.9	22.08

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN360BT3, ARUN360DT3 / ARUB360BT3, ARUB360DT3 Cooling Capacity

360,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	242.7	7.9	289.3	9.56	335.9	11.31	360	12.22	395.6	13.34	443.6	15.29	468.5	15.9
	25	242.7	7.97	289.3	9.63	335.9	11.4	360	12.35	395.6	13.45	443.6	15.44	468.5	16.07
	30	242.7	8.17	289.3	9.88	335.9	11.68	360	12.63	395.6	13.78	443.6	15.8	468.5	16.43
	35	242.7	8.29	289.3	10.04	335.9	11.87	360	12.84	395.6	14.01	443.6	16.07	468.5	16.7
	40	242.7	8.43	289.3	10.2	335.9	12.06	360	13.04	395.6	14.23	443.6	16.31	468.5	16.96
	45	242.7	8.62	289.3	10.42	335.9	12.3	360	13.32	395.6	14.51	443.6	16.65	468.5	17.31
	50	242.7	8.78	289.3	10.62	335.9	12.56	360	13.58	395.6	14.82	443.6	16.99	468.5	17.66
	55	242.7	8.93	289.3	10.82	335.9	12.81	360	13.87	395.6	15.12	443.6	17.28	463.5	17.92
	60	242.7	9.22	289.3	11.21	335.9	13.34	360	14.41	395.6	15.71	442	17.82	450.3	18.25
	65	242.7	9.41	289.3	11.45	335.9	13.58	360	14.7	395.6	16	435.4	18.42	445.3	18.78
	70	242.7	9.7	289.3	11.79	335.9	14.5	360	15.96	395.6	17.78	427.1	19.74	435.4	20.09
	75	242.7	9.94	289.3	12.56	335.9	15.52	360	17.12	395.6	19.06	420.5	20.68	430.4	20.93
	80	242.7	11.3	289.3	14.31	335.9	17.76	360	19.6	395.6	21.86	408.9	22.45	417.2	22.76
	85	242.7	12.03	289.3	15.28	335.9	18.97	360	20.91	394	23.19	402.3	23.39	412.2	23.7
	90	242.7	13.63	289.3	17.37	335.9	21.54	360	23.82	380.7	25.01	390.7	25.21	398.9	25.58
	95	242.7	14.46	289.3	18.48	335.9	22.99	**360**	**25.42**	375.8	25.9	384	26.15	394	26.52
	100	242.7	15.61	289.3	19.94	335.9	24.87	353.6	26.69	369.4	27.24	379	27.49	387.6	27.88
	105	242.7	17.54	289.3	22.47	334.1	27.96	343.8	28.6	358.2	29.18	367.6	29.44	376.6	29.84
	110	242.7	19.6	289.3	25.23	330.2	30.35	337.7	30.5	344.5	31.06	350	31.37	356.3	31.82
	115	242.7	22.53	289.3	28.81	314.3	31.78	324	31.78	332.1	32.25	335.2	32.31	336.7	32.53
	118	242.7	22.72	253.8	27.03	273.6	26.72	282.1	26.96	289.2	27.37	291.9	27.41	290.6	27.60
	122	207.6	20.57	203.5	20.55	218.1	20.34	225.4	20.39	231.6	20.72	234.4	20.78	234.0	20.97
90	23	218.6	7.07	260.4	8.51	303.8	10.04	324.6	10.82	345.5	11.65	387.3	13.23	429.1	14.61
	25	218.6	7.17	260.4	8.62	303.8	10.17	324.6	10.96	345.5	11.77	387.3	13.42	429.1	14.79
	30	218.6	7.37	260.4	8.87	303.8	10.47	324.6	11.28	345.5	12.15	387.3	13.8	429.1	15.23
	35	218.6	7.6	260.4	9.15	303.8	10.78	324.6	11.62	345.5	12.51	387.3	14.21	429.1	15.71
	40	218.6	7.82	260.4	9.41	303.8	11.1	324.6	11.97	345.5	12.89	387.3	14.64	429.1	16.16
	45	218.6	8.01	260.4	9.63	303.8	11.36	324.6	12.25	345.5	13.19	387.3	14.97	429.1	16.55
	50	218.6	8.18	260.4	9.85	303.8	11.61	324.6	12.52	345.5	13.48	387.3	15.31	429.1	16.91
	55	218.6	8.28	260.4	10	303.8	11.82	324.6	12.78	345.5	13.74	387.3	15.62	429.1	17.07
	60	218.6	8.58	260.4	10.4	303.8	12.27	324.6	13.28	345.5	14.29	387.3	16.22	425.5	17.26
	65	218.6	8.74	260.4	10.6	303.8	12.52	324.6	13.53	345.5	14.54	387.3	16.52	422.7	18.12
	70	218.6	8.99	260.4	10.91	303.8	12.98	324.6	14.29	345.5	15.6	387.3	18.43	414.6	19.47
	75	218.6	9.14	260.4	11.41	303.8	13.89	324.6	15.3	345.5	16.77	387.3	19.22	408.2	20.34
	80	218.6	10.25	260.4	12.93	303.8	15.86	324.6	17.47	345.5	19.14	387.3	21.25	397	22.11
	85	218.6	10.91	260.4	13.79	303.8	16.97	324.6	18.63	345.5	20.45	382.5	22.38	390.5	23.03
	90	218.6	12.32	260.4	15.6	303.8	19.24	324.6	21.21	345.5	23.28	371.3	24.49	379.3	24.85
	95	218.6	13.13	260.4	16.56	303.8	20.5	324.6	22.62	345.5	24.85	364.8	25.42	372.9	25.77
	100	218.6	13.56	260.4	17.26	303.8	21.36	324.6	23.52	345.5	25.39	360	26.51	366.4	26.8
	105	218.6	15.71	260.4	20.03	303.8	24.15	324.6	25.75	341.6	27.22	348.8	28.42	353.5	28.78
	110	218.6	18.05	260.4	23.1	303.8	26.49	324.6	27.81	327.9	29.52	332.2	30.52	334.9	30.87
	115	218.6	19.54	260.4	25.04	284.5	27.9	307.8	29.09	312.2	30.46	315.1	31.13	316.5	31.53
	118	218.6	20.75	253.8	27.03	247.7	23.46	268.0	24.68	271.8	25.85	274.3	26.41	273.2	26.75
	122	207.7	20.57	203.5	20.55	197.4	17.86	214.1	18.67	217.7	19.57	220.3	20.02	219.9	20.33
80	23	194.5	6.17	231.4	7.39	270	8.67	287.7	9.36	307	10.02	343.9	11.49	380.9	12.87
	25	194.5	6.23	231.4	7.47	270	8.74	287.7	9.46	307	10.14	343.9	11.62	380.9	12.99
	30	194.5	6.41	231.4	7.68	270	9.02	287.7	9.73	307	10.42	343.9	11.95	380.9	13.38
	35	194.5	6.58	231.4	7.91	270	9.28	287.7	9.99	307	10.7	343.9	12.28	380.9	13.75
	40	194.5	6.77	231.4	8.11	270	9.52	287.7	10.27	307	10.99	343.9	12.61	380.9	14.12
	45	194.5	6.86	231.4	8.21	270	9.66	287.7	10.42	307	11.13	343.9	12.79	380.9	14.31
	50	194.5	6.96	231.4	8.33	270	9.78	287.7	10.56	307	11.3	343.9	12.96	380.9	14.51
	55	194.5	7.06	231.4	8.47	270	9.96	287.7	10.73	307	11.51	343.9	13.2	380.9	14.76
	60	194.5	7.31	231.4	8.76	270	10.31	287.7	11.12	307	11.97	343.9	13.66	380.9	15.36
	65	194.5	7.41	231.4	8.93	270	10.52	287.7	11.33	307	12.22	343.9	13.91	380.9	15.71
	70	194.5	7.63	231.4	9.18	270	10.84	287.7	11.69	307	12.71	343.9	15	380.9	17.37
	75	194.5	7.77	231.4	9.36	270	11.37	287.7	12.46	307	13.56	343.9	15.96	380.9	18.32
	80	194.5	8.51	231.4	10.63	270	12.96	287.7	14.16	307	15.46	343.9	18.36	380.9	20.46
	85	194.5	9.07	231.4	11.3	270	13.8	287.7	15.11	307	16.56	343.9	19.56	380.9	20.99
	90	194.5	10.2	231.4	12.82	270	15.61	287.7	17.16	307	18.82	343.9	21.5	374.7	22.24
	95	194.5	10.84	231.4	13.56	270	16.66	287.7	18.22	307	20.02	343.9	22.24	366.6	22.85
	100	194.5	11.69	231.4	14.62	270	17.97	287.7	19.52	307	20.81	343.9	23.16	358.4	23.59
	105	194.5	13.32	231.4	16.73	270	20.01	287.7	20.95	307	22.32	339.8	24.07	348.1	24.76
	110	194.5	15.11	231.4	19.07	270	21.23	287.7	22.37	307	24.04	327.9	24.96	329.5	26.03
	115	194.5	16.17	231.4	20.37	270	21.93	287.7	23.51	287.7	24.61	289.4	25.53	289.4	27.07
	118	194.5	17.17	231.4	21.65	247.7	23.46	252.7	22.32	250.5	20.88	252.0	21.66	249.9	22.97
	122	194.5	18.56	204.2	20.42	197.4	17.86	201.9	16.88	200.6	15.81	202.4	16.42	201.1	17.45

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN360BT3, ARUN360DT3 / ARUB360BT3, ARUB360DT3

360,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	170.4	5.42	202.5	6.42	236.3	7.52	252.3	8.08	268.4	8.64	300.5	9.83	334.3	11.05
	25	170.4	5.47	202.5	6.48	236.3	7.6	252.3	8.16	268.4	8.72	300.5	9.94	334.3	11.16
	30	170.4	5.61	202.5	6.65	236.3	7.79	252.3	8.37	268.4	8.96	300.5	10.19	334.3	11.45
	35	170.4	5.77	202.5	6.84	236.3	8.01	252.3	8.59	268.4	9.2	300.5	10.45	334.3	11.77
	40	170.4	5.91	202.5	7.01	236.3	8.2	252.3	8.82	268.4	9.43	300.5	10.73	334.3	12.06
	45	170.4	6	202.5	7.12	236.3	8.34	252.3	8.97	268.4	9.58	300.5	10.91	334.3	12.25
	50	170.4	6.11	202.5	7.24	236.3	8.47	252.3	9.11	268.4	9.74	300.5	11.09	334.3	12.46
	55	170.4	6.21	202.5	7.38	236.3	8.61	252.3	9.25	268.4	9.92	300.5	11.3	334.3	12.71
	60	170.4	6.39	202.5	7.63	236.3	8.93	252.3	9.6	268.4	10.27	300.5	11.72	334.3	13.2
	65	170.4	6.5	202.5	7.77	236.3	9.07	252.3	9.78	268.4	10.49	300.5	11.93	334.3	13.42
	70	170.4	6.67	202.5	7.98	236.3	9.36	252.3	10.06	268.4	10.8	300.5	12.36	334.3	14.26
	75	170.4	6.78	202.5	8.12	236.3	9.53	252.3	10.42	268.4	11.3	300.5	13.2	334.3	15.1
	80	170.4	7.31	202.5	8.97	236.3	10.84	252.3	11.83	268.4	12.82	300.5	14.6	334.3	16.75
	85	170.4	7.77	202.5	9.53	236.3	11.54	252.3	12.6	268.4	13.8	300.5	15.56	334.3	17.46
	90	170.4	8.72	202.5	10.77	236.3	13.06	252.3	14.26	268.4	15.61	300.5	17.34	334.3	18.95
	95	170.4	9.21	202.5	11.44	236.3	13.91	252.3	15.22	268.4	16.56	300.5	18.24	334.3	19.52
	100	170.4	9.96	202.5	12.36	236.3	15	252.3	16.42	268.4	17.05	300.5	19.09	334.3	20.07
	105	170.4	11.29	202.5	14.08	236.3	16.55	252.3	17.51	268.4	18.53	300.5	20.11	334.3	21.25
	110	170.4	12.71	202.5	15.96	236.3	17.51	252.3	18.57	268.4	20.09	300.5	20.94	324.6	22.85
	115	170.4	13.66	202.5	17.02	236.3	18.11	252.3	19.63	268.4	20.67	300.5	21.58	306	24.33
	118	170.4	14.51	202.5	18.08	236.3	19.24	252.3	20.80	244.2	20.67	252.0	18.31	249.9	20.64
	122	170.4	15.65	202.5	19.58	210.8	18.37	201.6	17.11	195.6	15.65	202.4	13.88	201.1	15.68
60	23	146.3	4.64	173.6	5.47	202.5	6.36	215.4	6.83	229.8	7.31	258.8	8.29	286.1	9.31
	25	146.3	4.7	173.6	5.52	202.5	6.43	215.4	6.9	229.8	7.4	258.8	8.39	286.1	9.41
	30	146.3	4.81	173.6	5.67	202.5	6.6	215.4	7.09	229.8	7.58	258.8	8.61	286.1	9.66
	35	146.3	4.93	173.6	5.82	202.5	6.76	215.4	7.27	229.8	7.78	258.8	8.82	286.1	9.91
	40	146.3	5.07	173.6	5.97	202.5	6.94	215.4	7.46	229.8	7.98	258.8	9.06	286.1	10.17
	45	146.3	5.11	173.6	6.02	202.5	6.99	215.4	7.52	229.8	8.06	258.8	9.13	286.1	10.24
	50	146.3	5.15	173.6	6.07	202.5	7.06	215.4	7.59	229.8	8.12	258.8	9.21	286.1	10.34
	55	146.3	5.23	173.6	6.18	202.5	7.2	215.4	7.73	229.8	8.26	258.8	9.39	286.1	10.52
	60	146.3	5.4	173.6	6.39	202.5	7.45	215.4	8.01	229.8	8.58	258.8	9.71	286.1	10.94
	65	146.3	5.47	173.6	6.5	202.5	7.59	215.4	8.16	229.8	8.72	258.8	9.92	286.1	11.16
	70	146.3	5.61	173.6	6.67	202.5	7.8	215.4	8.37	229.8	8.97	258.8	10.2	286.1	11.58
	75	146.3	5.72	173.6	6.78	202.5	7.94	215.4	8.54	229.8	9.25	258.8	10.8	286.1	12.34
	80	146.3	6.07	173.6	7.41	202.5	8.9	215.4	9.71	229.8	10.52	258.8	12.1	286.1	13.94
	85	146.3	6.46	173.6	7.87	202.5	9.46	215.4	10.34	229.8	11.26	258.8	12.74	286.1	14.38
	90	146.3	7.24	173.6	8.9	202.5	10.7	215.4	11.69	229.8	12.65	258.8	14.24	286.1	15.69
	95	146.3	7.66	173.6	9.43	202.5	11.37	215.4	12.46	229.8	13.39	258.8	14.89	286.1	16.52
	100	146.3	8.23	173.6	10.13	202.5	12.25	215.4	13.42	229.8	14	258.8	15.79	286.1	17.23
	105	146.3	9.35	173.6	11.54	202.5	13.52	215.4	14.31	229.8	15.23	258.8	16.78	286.1	18.79
	110	146.3	10.52	173.6	13.1	202.5	14.59	215.4	15.18	229.8	16.45	258.8	17.94	286.1	20.49
	115	146.3	11.26	173.6	13.98	202.5	15.16	215.4	16.06	229.8	17.03	258.8	18.97	286.1	21.9
	118	146.3	11.92	173.6	14.83	202.5	16.10	215.4	17.07	229.8	18.13	252.0	18.31	249.9	20.64
	122	146.3	12.85	173.6	16.03	202.5	17.44	201.1	17.31	194.7	16.03	202.4	13.88	201.1	15.68
50	23	121.5	4.05	144.6	4.7	168.8	5.39	180	5.74	191.3	6.12	215.4	6.86	237.9	7.63
	25	121.5	4.09	144.6	4.77	168.8	5.43	180	5.8	191.3	6.2	215.4	6.93	237.9	7.7
	30	121.5	4.21	144.6	4.88	168.8	5.6	180	5.96	191.3	6.36	215.4	7.12	237.9	7.93
	35	121.5	4.32	144.6	5.01	168.8	5.74	180	6.13	191.3	6.53	215.4	7.32	237.9	8.13
	40	121.5	4.43	144.6	5.14	168.8	5.89	180	6.27	191.3	6.7	215.4	7.5	237.9	8.35
	45	121.5	4.5	144.6	5.21	168.8	5.97	180	6.36	191.3	6.79	215.4	7.6	237.9	8.46
	50	121.5	4.56	144.6	5.29	168.8	6.06	180	6.45	191.3	6.89	215.4	7.71	237.9	8.59
	55	121.5	4.66	144.6	5.38	168.8	6.16	180	6.55	191.3	6.99	215.4	7.86	237.9	8.73
	60	121.5	4.75	144.6	5.53	168.8	6.36	180	6.79	191.3	7.23	215.4	8.1	237.9	9.07
	65	121.5	4.8	144.6	5.63	168.8	6.45	180	6.89	191.3	7.33	215.4	8.25	237.9	9.22
	70	121.5	4.95	144.6	5.72	168.8	6.6	180	7.08	191.3	7.52	215.4	8.49	237.9	9.51
	75	121.5	5	144.6	5.82	168.8	6.74	180	7.18	191.3	7.66	215.4	8.64	237.9	9.7
	80	121.5	5.14	144.6	6.16	168.8	7.23	180	7.81	191.3	8.39	215.4	9.65	237.9	11.01
	85	121.5	5.48	144.6	6.5	168.8	7.66	180	8.3	191.3	8.93	215.4	10.28	237.9	11.74
	90	121.5	6.11	144.6	7.28	168.8	8.64	180	9.31	191.3	10.04	215.4	11.59	237.9	13.29
	95	121.5	6.45	144.6	7.71	168.8	9.12	180	9.9	191.3	10.67	215.4	12.32	237.9	14.12
	100	121.5	6.79	144.6	8.15	168.8	9.65	180	10.48	191.3	11.3	215.4	13.1	237.9	14.99
	105	121.5	7.42	144.6	9	168.8	10.68	180	11.57	191.3	12.51	215.4	14.51	237.9	16.68
	110	121.5	8.2	144.6	9.94	168.8	11.84	180	12.86	191.3	13.92	215.4	16.2	237.9	18.63
	115	121.5	8.78	144.6	10.67	168.8	12.71	180	13.83	191.3	14.99	215.4	17.46	237.9	20.08
	118	121.5	9.49	144.6	11.58	168.8	13.81	180.0	15.04	191.3	16.32	215.4	18.31	237.9	20.64
	122	121.5	10.46	144.6	12.79	168.8	15.28	180.0	16.69	191.3	16.03	202.4	13.88	201.1	15.68

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN384BT3, ARUN384DT3 / ARUB384BT3, ARUB384DT3 Cooling Capacity

384,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	349.2	10.86	414.8	13.14	482.1	15.54	499.9	16.80	507.0	18.06	524.6	20.70	537.1	21.42
	25	349.2	10.91	414.8	13.21	482.1	15.64	499.9	16.90	507.0	18.18	524.6	20.84	537.1	21.56
	30	349.2	11.06	414.8	13.38	482.1	15.82	499.9	17.11	507.0	18.39	524.6	21.08	537.1	21.81
	35	349.2	11.18	414.8	13.55	482.1	16.01	499.9	17.30	507.0	18.61	524.6	21.33	537.1	22.07
	40	349.2	11.32	414.8	13.70	482.1	16.20	499.9	17.52	507.0	18.83	524.6	21.58	537.1	22.33
	45	349.2	11.44	414.8	13.84	482.1	16.38	499.9	17.70	507.0	19.01	524.6	21.82	537.1	22.56
	50	349.2	11.56	414.8	13.98	482.1	16.53	499.9	17.88	507.0	19.22	524.6	22.02	537.1	22.79
	55	349.2	11.75	414.8	14.24	482.1	16.85	492.8	18.26	499.9	19.60	517.4	22.41	529.9	22.95
	60	349.2	12.13	414.8	14.75	475.0	17.56	481.8	18.96	487.5	20.36	504.9	23.11	517.4	23.20
	65	349.2	12.38	414.8	15.07	468.0	17.88	475.0	19.34	480.4	20.75	497.7	23.88	510.2	24.07
	70	349.2	11.92	414.8	14.48	459.1	17.82	464.4	19.60	471.5	21.51	488.8	23.89	501.3	24.13
	75	349.2	12.21	414.8	15.43	452.0	19.07	457.3	21.03	464.4	23.06	481.6	25.03	494.1	25.20
	80	349.2	13.88	414.8	17.58	439.6	21.81	444.9	24.07	452.0	26.46	469.1	27.17	481.6	27.41
	85	349.2	14.78	414.8	18.77	432.5	23.30	439.6	25.68	444.9	28.06	461.9	28.30	474.4	28.54
	90	349.2	16.74	407.7	21.33	420.1	26.46	425.4	29.26	432.5	30.27	449.4	30.51	461.9	30.80
	95	352.9	17.76	404.9	22.70	417.4	28.24	424.6	31.22	429.9	31.34	446.9	31.64	459.6	31.94
	100	352.9	19.22	397.7	24.55	410.2	30.62	417.4	32.86	422.8	33.04	441.5	33.35	454.1	33.65
	105	352.9	21.67	387.1	27.78	399.5	34.53	405.7	35.33	411.9	35.52	426.1	35.84	432.3	36.19
	110	352.9	24.33	371.0	31.31	386.5	37.67	387.7	37.85	393.4	37.98	401.7	38.35	403.2	38.72
	115	351.1	28.15	357.5	36.01	357.5	39.71	357.5	39.71	357.5	39.71	362.7	39.78	364.3	39.85
	118	305.3	23.85	310.9	30.51	311.3	33.39	311.3	33.69	311.3	33.69	315.8	33.75	314.5	33.81
	122	244.0	18.09	249.3	23.20	248.1	25.42	248.7	25.48	249.3	25.51	253.6	25.59	253.2	25.69
120	23	317.8	10.20	379.2	12.34	440.7	14.59	472.3	15.77	493.3	16.96	515.7	19.43	526.5	20.11
	25	317.8	10.25	379.2	12.41	440.7	14.68	472.3	15.86	493.3	17.07	515.7	19.56	526.5	20.24
	30	317.8	10.38	379.2	12.56	440.7	14.85	472.3	16.06	493.3	17.26	515.7	19.79	526.5	20.48
	35	317.8	10.52	379.2	12.71	440.7	15.03	472.3	16.27	493.3	17.47	515.7	20.03	526.5	20.73
	40	317.8	10.64	379.2	12.88	440.7	15.23	472.3	16.46	493.3	17.70	515.7	20.28	526.5	20.99
	45	317.8	10.77	379.2	13.01	440.7	15.40	472.3	16.66	493.3	17.89	515.7	20.50	526.5	21.23
	50	317.8	10.88	379.2	13.17	440.7	15.57	472.3	16.83	493.3	18.10	515.7	20.74	526.5	21.46
	55	317.8	11.06	379.2	13.41	440.7	15.87	472.3	17.19	488.1	18.46	508.6	21.10	521.1	21.62
	60	317.8	11.42	379.2	13.89	440.7	16.53	468.7	17.86	474.0	19.18	496.0	21.76	506.8	22.14
	65	317.8	11.66	379.2	14.19	440.7	16.83	461.7	18.22	468.7	19.54	488.9	22.48	501.4	22.66
	70	317.8	11.44	379.2	13.90	440.7	17.10	452.9	18.82	458.2	20.65	479.9	22.94	490.7	23.17
	75	317.8	11.73	379.2	14.81	440.7	18.30	445.9	20.19	452.9	22.14	472.7	24.02	485.3	24.20
	80	317.8	13.33	379.2	16.87	428.4	20.94	433.6	23.11	438.9	25.40	460.2	26.08	471.0	26.31
	85	317.8	14.19	379.2	18.02	421.3	22.37	426.6	24.65	433.6	26.94	453.1	27.17	465.6	27.40
	90	317.8	16.07	379.2	20.48	409.1	25.40	414.3	28.09	419.6	29.06	440.5	29.29	451.3	29.57
	95	321.1	17.05	383.2	21.79	406.3	27.11	411.6	29.97	418.7	30.09	437.9	30.37	450.6	30.66
	100	321.1	18.45	383.2	23.57	399.2	29.39	406.3	31.55	411.6	31.72	432.5	32.01	443.3	32.30
	105	321.1	20.79	377.1	26.69	388.5	33.17	394.8	33.92	400.0	34.10	419.9	34.40	426.9	34.72
	110	321.1	23.35	367.5	30.06	379.4	36.16	380.6	36.34	386.2	36.46	398.2	36.81	399.7	37.17
	115	312.2	27.02	354.0	34.57	354.0	38.12	354.0	38.12	354.0	38.12	362.7	38.19	364.4	38.26
	118	278.8	23.85	307.9	29.29	308.3	32.06	308.3	32.34	308.3	32.34	315.8	32.40	314.5	32.46
	122	222.7	18.09	246.9	22.27	245.7	24.40	246.3	24.46	246.9	24.49	253.6	24.56	253.2	24.66
110	23	294.5	9.36	351.3	11.33	408.0	13.40	436.4	14.48	464.8	15.57	512.1	17.84	523.0	18.44
	25	294.5	9.42	351.3	11.39	408.0	13.48	436.4	14.58	464.8	15.66	512.1	17.93	523.0	18.55
	30	294.5	9.53	351.3	11.54	408.0	13.64	436.4	14.75	464.8	15.86	512.1	18.17	523.0	18.78
	35	294.5	9.68	351.3	11.70	408.0	13.83	436.4	14.96	464.8	16.09	512.1	18.44	523.0	19.09
	40	294.5	9.81	351.3	11.87	408.0	14.03	436.4	15.17	464.8	16.31	512.1	18.69	523.0	19.32
	45	294.5	9.97	351.3	12.05	408.0	14.26	436.4	15.42	464.8	16.58	512.1	19.01	523.0	19.65
	50	294.5	10.13	351.3	12.26	408.0	14.50	436.4	15.67	464.8	16.85	512.1	19.31	523.0	19.96
	55	294.5	10.30	351.3	12.48	408.0	14.78	436.4	16.01	464.8	17.19	504.9	19.65	515.7	20.14
	60	294.5	10.64	351.3	12.93	408.0	15.39	436.4	16.63	464.8	17.86	492.2	20.26	503.1	20.45
	65	294.5	10.86	351.3	13.21	408.0	15.67	436.4	16.96	464.8	18.19	485.0	20.94	495.8	21.10
	70	294.5	10.97	351.3	13.33	408.0	16.40	436.4	18.04	455.9	19.80	475.9	21.99	486.8	22.21
	75	294.5	11.24	351.3	14.21	408.0	17.55	436.4	19.36	448.8	21.23	468.7	23.04	479.5	23.20
	80	291.5	12.78	347.7	16.18	403.9	20.07	426.7	22.16	432.0	24.35	451.4	25.01	462.1	25.23
	85	291.5	13.60	347.7	17.28	403.9	21.45	419.7	23.64	424.9	25.83	444.2	26.05	454.9	26.27
	90	291.5	15.41	347.7	19.64	402.1	24.35	407.4	26.93	412.7	27.86	431.7	28.08	442.4	28.36
	95	291.5	16.34	347.7	20.90	395.1	26.00	400.4	28.74	405.6	28.85	424.5	29.12	435.2	29.40
	100	291.5	17.69	347.7	22.60	389.8	28.18	395.1	30.25	400.4	30.41	419.1	30.70	429.9	30.97
	105	291.5	19.94	347.7	25.57	377.7	31.80	382.9	32.54	388.1	32.70	406.7	32.99	417.2	33.31
	110	291.5	22.39	347.7	28.82	366.0	34.67	367.1	34.84	372.5	34.96	384.1	35.30	385.6	35.64
	115	291.5	25.91	347.7	33.14	350.4	36.55	350.4	36.55	352.0	36.55	359.0	36.62	360.6	36.68
	118	281.7	23.61	302.3	28.08	305.1	30.74	305.1	31.01	306.5	31.01	312.6	31.07	311.3	31.13
	122	225.1	17.91	242.5	21.35	243.2	23.40	243.8	23.45	245.5	23.48	251.0	23.55	250.6	23.65

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN384BT3, ARUN384DT3 / ARUB384BT3, ARUB384DT3

384,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	258.9	8.47	308.6	10.24	358.3	12.11	384	13.1	422	14.29	473.2	16.38	499.7	17.03
	25	258.9	8.54	308.6	10.32	358.3	12.21	384	13.23	422	14.4	473.2	16.54	499.7	17.21
	30	258.9	8.75	308.6	10.58	358.3	12.52	384	13.53	422	14.76	473.2	16.92	499.7	17.6
	35	258.9	8.88	308.6	10.76	358.3	12.72	384	13.75	422	15	473.2	17.21	499.7	17.89
	40	258.9	9.03	308.6	10.93	358.3	12.92	384	13.97	422	15.24	473.2	17.47	499.7	18.17
	45	258.9	9.23	308.6	11.16	358.3	13.18	384	14.27	422	15.55	473.2	17.84	499.7	18.54
	50	258.9	9.41	308.6	11.38	358.3	13.46	384	14.55	422	15.88	473.2	18.2	499.7	18.92
	55	258.9	9.56	308.6	11.59	358.3	13.72	384	14.86	422	16.19	473.2	18.51	494.4	19.2
	60	258.9	9.87	308.6	12	358.3	14.29	384	15.43	422	16.83	471.4	19.09	480.3	19.55
	65	258.9	10.08	308.6	12.26	358.3	14.55	384	15.75	422	17.14	464.4	19.73	475	20.12
	70	258.9	10.39	308.6	12.63	358.3	15.54	384	17.1	422	19.04	455.6	21.15	464.4	21.52
	75	258.9	10.65	308.6	13.46	358.3	16.63	384	18.34	422	20.41	448.5	22.15	459.1	22.42
	80	258.9	12.11	308.6	15.33	358.3	19.02	384	20.99	422	23.42	436.1	24.05	445	24.38
	85	258.9	12.89	308.6	16.37	358.3	20.32	384	22.4	420.2	24.84	429.1	25.05	439.7	25.39
	90	258.9	14.6	308.6	18.6	358.3	23.07	384	25.52	406.1	26.79	416.7	27.01	425.5	27.4
	95	258.9	15.49	308.6	19.8	358.3	24.63	**384**	**27.23**	400.8	27.74	409.6	28.01	420.2	28.41
	100	258.9	16.72	308.6	21.36	358.3	26.64	377.1	28.59	394	29.18	404.3	29.45	413.4	29.86
	105	258.9	18.79	308.6	24.07	356.4	29.95	366.7	30.63	382.1	31.26	392.1	31.53	401.7	31.97
	110	258.9	21	308.6	27.03	352.2	32.52	360.2	32.68	367.5	33.28	373.3	33.6	380.1	34.09
	115	258.9	24.13	308.6	30.87	335.2	34.04	345.6	34.04	354.2	34.55	357.6	34.61	359.1	34.84
	118	258.9	24.34	270.7	28.95	291.9	28.62	300.9	28.88	308.4	29.31	311.3	29.37	310.0	29.56
	122	221.4	22.04	217.1	22.01	232.6	21.79	240.4	21.84	247.1	22.19	250.0	22.26	249.6	22.46
90	23	233.1	7.57	277.7	9.11	324	10.75	346.3	11.59	368.6	12.48	413.1	14.17	457.7	15.65
	25	233.1	7.68	277.7	9.23	324	10.89	346.3	11.74	368.6	12.61	413.1	14.38	457.7	15.85
	30	233.1	7.9	277.7	9.5	324	11.21	346.3	12.09	368.6	13.01	413.1	14.78	457.7	16.32
	35	233.1	8.14	277.7	9.8	324	11.55	346.3	12.44	368.6	13.4	413.1	15.22	457.7	16.83
	40	233.1	8.38	277.7	10.08	324	11.89	346.3	12.83	368.6	13.81	413.1	15.68	457.7	17.32
	45	233.1	8.58	277.7	10.32	324	12.17	346.3	13.12	368.6	14.13	413.1	16.04	457.7	17.73
	50	233.1	8.76	277.7	10.55	324	12.44	346.3	13.42	368.6	14.44	413.1	16.4	457.7	18.11
	55	233.1	8.87	277.7	10.71	324	12.66	346.3	13.69	368.6	14.71	413.1	16.73	457.7	18.28
	60	233.1	9.2	277.7	11.14	324	13.15	346.3	14.23	368.6	15.31	413.1	17.37	453.9	18.49
	65	233.1	9.36	277.7	11.36	324	13.42	346.3	14.5	368.6	15.58	413.1	17.7	450.9	19.41
	70	233.1	9.63	277.7	11.68	324	13.9	346.3	15.31	368.6	16.72	413.1	19.74	442.3	20.86
	75	233.1	9.79	277.7	12.23	324	14.88	346.3	16.39	368.6	17.96	413.1	20.59	435.4	21.78
	80	233.1	10.98	277.7	13.85	324	16.99	346.3	18.72	368.6	20.5	413.1	22.76	423.4	23.69
	85	233.1	11.68	277.7	14.77	324	18.18	346.3	19.96	368.6	21.91	408	23.97	416.6	24.67
	90	233.1	13.2	277.7	16.72	324	20.61	346.3	22.72	368.6	24.94	396	26.23	404.6	26.62
	95	233.1	14.06	277.7	17.74	324	21.96	346.3	24.23	368.6	26.61	389.1	27.23	397.7	27.6
	100	233.1	14.52	277.7	18.49	324	22.88	346.3	25.19	368.6	27.2	384	28.4	390.9	28.71
	105	233.1	16.83	277.7	21.46	324	25.87	346.3	27.58	364.4	29.16	372.1	30.44	377.1	30.82
	110	233.1	19.33	277.7	24.75	324	28.38	346.3	29.79	349.7	31.62	354.3	32.7	357.2	33.07
	115	233.1	20.93	277.7	26.82	303.4	29.88	328.3	31.16	333	32.63	336.1	33.35	337.6	33.78
	118	233.1	22.23	270.7	28.95	264.2	25.13	285.9	26.44	289.9	27.69	292.6	28.29	291.4	28.66
	122	221.5	22.04	217.1	22.01	210.6	19.13	228.4	20.00	232.2	20.96	235.0	21.45	234.6	21.77
80	23	207.4	6.61	246.9	7.92	288	9.29	306.9	10.03	327.4	10.73	366.9	12.31	406.3	13.79
	25	207.4	6.67	246.9	8.01	288	9.37	306.9	10.13	327.4	10.86	366.9	12.44	406.3	13.91
	30	207.4	6.87	246.9	8.23	288	9.66	306.9	10.43	327.4	11.16	366.9	12.8	406.3	14.33
	35	207.4	7.05	246.9	8.47	288	9.94	306.9	10.7	327.4	11.46	366.9	13.15	406.3	14.73
	40	207.4	7.25	246.9	8.68	288	10.19	306.9	11	327.4	11.78	366.9	13.5	406.3	15.12
	45	207.4	7.35	246.9	8.8	288	10.35	306.9	11.16	327.4	11.93	366.9	13.7	406.3	15.33
	50	207.4	7.45	246.9	8.93	288	10.48	306.9	11.31	327.4	12.1	366.9	13.88	406.3	15.54
	55	207.4	7.56	246.9	9.08	288	10.67	306.9	11.5	327.4	12.33	366.9	14.14	406.3	15.81
	60	207.4	7.83	246.9	9.38	288	11.04	306.9	11.91	327.4	12.82	366.9	14.64	406.3	16.45
	65	207.4	7.94	246.9	9.57	288	11.27	306.9	12.14	327.4	13.09	366.9	14.9	406.3	16.83
	70	207.4	8.17	246.9	9.83	288	11.61	306.9	12.52	327.4	13.62	366.9	16.07	406.3	18.61
	75	207.4	8.32	246.9	10.02	288	12.18	306.9	13.35	327.4	14.52	366.9	17.09	406.3	19.62
	80	207.4	9.11	246.9	11.38	288	13.88	306.9	15.17	327.4	16.56	366.9	19.67	406.3	21.92
	85	207.4	9.72	246.9	12.1	288	14.79	306.9	16.19	327.4	17.74	366.9	20.95	406.3	22.49
	90	207.4	10.93	246.9	13.73	288	16.72	306.9	18.38	327.4	20.16	366.9	23.03	399.7	23.83
	95	207.4	11.61	246.9	14.52	288	17.85	306.9	19.51	327.4	21.44	366.9	23.83	391.1	24.48
	100	207.4	12.52	246.9	15.66	288	19.25	306.9	20.91	327.4	22.3	366.9	24.81	382.3	25.27
	105	207.4	14.27	246.9	17.92	288	21.43	306.9	22.44	327.4	23.91	362.5	25.79	371.3	26.52
	110	207.4	16.19	246.9	20.42	288	22.74	306.9	23.96	327.4	25.76	349.7	26.74	351.4	27.89
	115	207.4	17.32	246.9	21.82	288	23.49	306.9	25.19	306.9	26.36	308.7	27.34	308.7	29
	118	207.4	18.39	246.9	23.20	264.2	25.13	269.5	23.91	267.2	22.37	268.8	23.20	266.5	24.61
	122	207.4	19.88	217.8	21.87	210.6	19.13	215.3	18.08	214.0	16.93	215.8	17.59	214.5	18.70

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN384BT3, ARUN384DT3 / ARUB384BT3, ARUB384DT3 — Cooling Capacity

384,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	181.7	5.8	216	6.88	252	8.05	269.1	8.65	286.3	9.26	320.6	10.53	356.6	11.84
	25	181.7	5.85	216	6.94	252	8.14	269.1	8.74	286.3	9.34	320.6	10.65	356.6	11.95
	30	181.7	6.01	216	7.12	252	8.34	269.1	8.97	286.3	9.59	320.6	10.91	356.6	12.27
	35	181.7	6.18	216	7.32	252	8.58	269.1	9.2	286.3	9.86	320.6	11.19	356.6	12.61
	40	181.7	6.33	216	7.5	252	8.79	269.1	9.45	286.3	10.1	320.6	11.5	356.6	12.92
	45	181.7	6.43	216	7.62	252	8.93	269.1	9.61	286.3	10.27	320.6	11.68	356.6	13.12
	50	181.7	6.54	216	7.75	252	9.08	269.1	9.76	286.3	10.44	320.6	11.88	356.6	13.35
	55	181.7	6.66	216	7.9	252	9.23	269.1	9.91	286.3	10.63	320.6	12.1	356.6	13.62
	60	181.7	6.85	216	8.17	252	9.57	269.1	10.29	286.3	11.01	320.6	12.56	356.6	14.14
	65	181.7	6.96	216	8.32	252	9.72	269.1	10.48	286.3	11.23	320.6	12.78	356.6	14.37
	70	181.7	7.15	216	8.55	252	10.02	269.1	10.78	286.3	11.57	320.6	13.24	356.6	15.28
	75	181.7	7.26	216	8.7	252	10.21	269.1	11.16	286.3	12.1	320.6	14.14	356.6	16.18
	80	181.7	7.83	216	9.61	252	11.61	269.1	12.67	286.3	13.73	320.6	15.64	356.6	17.94
	85	181.7	8.32	216	10.21	252	12.37	269.1	13.5	286.3	14.79	320.6	16.66	356.6	18.71
	90	181.7	9.34	216	11.53	252	13.99	269.1	15.28	286.3	16.72	320.6	18.58	356.6	20.3
	95	181.7	9.87	216	12.25	252	14.9	269.1	16.3	286.3	17.74	320.6	19.54	356.6	20.91
	100	181.7	10.67	216	13.24	252	16.07	269.1	17.59	286.3	18.27	320.6	20.45	356.6	21.5
	105	181.7	12.09	216	15.09	252	17.73	269.1	18.76	286.3	19.85	320.6	21.54	356.6	22.76
	110	181.7	13.62	216	17.09	252	18.76	269.1	19.89	286.3	21.52	320.6	22.43	346.3	24.48
	115	181.7	14.64	216	18.23	252	19.4	269.1	21.03	286.3	22.15	320.6	23.12	326.4	26.06
	118	181.7	15.54	216.0	19.37	252.0	20.61	269.1	22.28	260.5	22.15	268.8	19.61	266.5	22.11
	122	181.7	16.77	216.0	20.97	224.9	19.68	215.0	18.32	208.7	16.77	215.8	14.87	214.5	16.80
60	23	156	4.97	185.1	5.85	216	6.81	229.7	7.32	245.1	7.83	276	8.88	305.1	9.97
	25	156	5.04	185.1	5.91	216	6.89	229.7	7.39	245.1	7.92	276	8.99	305.1	10.08
	30	156	5.16	185.1	6.08	216	7.06	229.7	7.59	245.1	8.12	276	9.22	305.1	10.35
	35	156	5.28	185.1	6.24	216	7.24	229.7	7.79	245.1	8.33	276	9.45	305.1	10.62
	40	156	5.43	185.1	6.39	216	7.44	229.7	7.99	245.1	8.55	276	9.7	305.1	10.89
	45	156	5.47	185.1	6.45	216	7.49	229.7	8.06	245.1	8.63	276	9.78	305.1	10.97
	50	156	5.52	185.1	6.5	216	7.56	229.7	8.13	245.1	8.7	276	9.87	305.1	11.08
	55	156	5.6	185.1	6.62	216	7.72	229.7	8.28	245.1	8.85	276	10.06	305.1	11.27
	60	156	5.79	185.1	6.85	216	7.98	229.7	8.59	245.1	9.19	276	10.4	305.1	11.72
	65	156	5.86	185.1	6.96	216	8.13	229.7	8.74	245.1	9.34	276	10.63	305.1	11.95
	70	156	6.01	185.1	7.15	216	8.36	229.7	8.96	245.1	9.61	276	10.93	305.1	12.4
	75	156	6.13	185.1	7.26	216	8.51	229.7	9.15	245.1	9.91	276	11.57	305.1	13.21
	80	156	6.5	185.1	7.94	216	9.53	229.7	10.4	245.1	11.27	276	12.96	305.1	14.93
	85	156	6.92	185.1	8.43	216	10.14	229.7	11.08	245.1	12.06	276	13.65	305.1	15.41
	90	156	7.75	185.1	9.53	216	11.46	229.7	12.52	245.1	13.55	276	15.26	305.1	16.81
	95	156	8.21	185.1	10.1	216	12.18	229.7	13.35	245.1	14.35	276	15.95	305.1	17.7
	100	156	8.81	185.1	10.85	216	13.12	229.7	14.37	245.1	14.99	276	16.92	305.1	18.46
	105	156	10.02	185.1	12.36	216	14.49	229.7	15.33	245.1	16.31	276	17.97	305.1	20.12
	110	156	11.27	185.1	14.03	216	15.63	229.7	16.26	245.1	17.62	276	19.22	305.1	21.95
	115	156	12.06	185.1	14.98	216	16.24	229.7	17.21	245.1	18.25	276	20.32	305.1	23.46
	118	156.0	12.77	185.1	15.88	216.0	17.24	229.7	18.28	245.1	19.42	268.8	19.61	266.5	22.11
	122	156.0	13.77	185.1	17.18	216.0	18.68	214.6	18.54	207.7	17.17	215.8	14.87	214.5	16.80
50	23	129.6	4.34	154.3	5.04	180	5.77	192	6.14	204	6.56	229.7	7.35	253.7	8.18
	25	129.6	4.38	154.3	5.11	180	5.81	192	6.21	204	6.64	229.7	7.42	253.7	8.25
	30	129.6	4.51	154.3	5.23	180	6	192	6.38	204	6.82	229.7	7.63	253.7	8.5
	35	129.6	4.63	154.3	5.36	180	6.15	192	6.56	204	7	229.7	7.84	253.7	8.71
	40	129.6	4.75	154.3	5.51	180	6.31	192	6.72	204	7.17	229.7	8.03	253.7	8.94
	45	129.6	4.82	154.3	5.58	180	6.4	192	6.81	204	7.27	229.7	8.14	253.7	9.07
	50	129.6	4.88	154.3	5.66	180	6.5	192	6.91	204	7.38	229.7	8.26	253.7	9.2
	55	129.6	4.99	154.3	5.77	180	6.6	192	7.02	204	7.48	229.7	8.42	253.7	9.35
	60	129.6	5.09	154.3	5.92	180	6.81	192	7.28	204	7.74	229.7	8.68	253.7	9.72
	65	129.6	5.14	154.3	6.03	180	6.91	192	7.38	204	7.85	229.7	8.83	253.7	9.87
	70	129.6	5.3	154.3	6.13	180	7.07	192	7.59	204	8.05	229.7	9.09	253.7	10.19
	75	129.6	5.35	154.3	6.24	180	7.22	192	7.69	204	8.21	229.7	9.25	253.7	10.39
	80	129.6	5.51	154.3	6.6	180	7.74	192	8.37	204	8.99	229.7	10.34	253.7	11.8
	85	129.6	5.87	154.3	6.96	180	8.21	192	8.89	204	9.56	229.7	11.02	253.7	12.58
	90	129.6	6.55	154.3	7.79	180	9.25	192	9.98	204	10.76	229.7	12.42	253.7	14.24
	95	129.6	6.91	154.3	8.26	180	9.77	192	10.6	204	11.43	229.7	13.2	253.7	15.12
	100	129.6	7.28	154.3	8.73	180	10.34	192	11.22	204	12.11	229.7	14.03	253.7	16.06
	105	129.6	7.95	154.3	9.64	180	11.44	192	12.39	204	13.4	229.7	15.55	253.7	17.86
	110	129.6	8.78	154.3	10.65	180	12.68	192	13.77	204	14.91	229.7	17.36	253.7	19.95
	115	129.6	9.41	154.3	11.43	180	13.62	192	14.81	204	16.06	229.7	18.71	253.7	21.51
	118	129.6	10.16	154.3	12.40	180.0	14.80	192.0	16.11	204.0	17.48	229.7	19.61	253.7	22.11
	122	129.6	11.21	154.3	13.70	180.0	16.37	192.0	17.88	204.0	17.17	215.8	14.87	214.5	16.80

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN408BT3, ARUN408DT3 / ARUB408BT3, ARUB408DT3

408,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	371.0	11.55	440.7	13.98	512.3	16.53	531.1	17.87	538.6	19.21	557.3	22.02	570.7	22.78
	25	371.0	11.60	440.7	14.05	512.3	16.63	531.1	17.97	538.6	19.34	557.3	22.17	570.7	22.93
	30	371.0	11.76	440.7	14.23	512.3	16.83	531.1	18.19	538.6	19.56	557.3	22.42	570.7	23.20
	35	371.0	11.89	440.7	14.41	512.3	17.03	531.1	18.40	538.6	19.80	557.3	22.68	570.7	23.47
	40	371.0	12.04	440.7	14.57	512.3	17.23	531.1	18.63	538.6	20.03	557.3	22.96	570.7	23.75
	45	371.0	12.16	440.7	14.72	512.3	17.42	531.1	18.82	538.6	20.22	557.3	23.20	570.7	23.99
	50	371.0	12.29	440.7	14.87	512.3	17.58	531.1	19.01	538.6	20.44	557.3	23.42	570.7	24.24
	55	371.0	12.49	440.7	15.14	512.3	17.92	523.6	19.42	531.1	20.84	549.7	23.83	563.0	24.41
	60	371.0	12.90	440.7	15.68	504.7	18.67	511.9	20.17	517.9	21.66	536.4	24.58	549.7	24.68
	65	371.0	13.17	440.7	16.02	497.2	19.01	504.7	20.57	510.4	22.07	528.8	25.39	542.1	25.60
	70	371.0	12.67	440.7	15.40	487.8	18.95	493.4	20.85	501.0	22.88	519.3	25.41	532.6	25.66
	75	371.0	12.99	440.7	16.41	480.3	20.28	485.9	22.37	493.4	24.52	511.7	26.62	525.0	26.81
	80	371.0	14.77	440.7	18.69	467.1	23.19	472.7	25.60	480.3	28.14	498.4	28.90	511.7	29.15
	85	371.0	15.72	440.7	19.96	459.5	24.78	467.1	27.31	472.7	29.85	490.8	30.10	504.1	30.35
	90	371.0	17.81	433.2	22.69	446.4	28.14	452.0	31.11	459.5	32.19	477.4	32.45	490.8	32.76
	95	375.0	18.88	430.2	24.14	443.5	30.04	451.1	33.21	456.8	33.33	474.8	33.65	488.3	33.97
	100	375.0	20.44	422.6	26.11	435.9	32.56	443.5	34.95	449.2	35.14	469.1	35.47	482.5	35.79
	105	375.0	23.05	411.2	29.54	424.4	36.72	431.0	37.58	437.6	37.77	452.7	38.12	459.3	38.48
	110	375.0	25.87	394.1	33.30	410.7	40.06	411.9	40.26	418.0	40.39	426.8	40.78	428.4	41.18
	115	373.1	29.94	379.8	38.29	379.8	42.23	379.8	42.23	379.8	42.23	385.4	42.31	387.1	42.38
	118	324.4	25.37	330.3	32.45	330.7	35.51	330.7	35.83	330.7	35.83	335.5	35.90	334.1	35.96
	122	259.2	19.24	264.9	24.67	263.6	27.03	264.3	27.10	264.9	27.13	269.4	27.21	269.0	27.32
120	23	337.6	10.84	402.9	13.12	468.2	15.52	501.8	16.77	524.2	18.03	548.0	20.67	559.4	21.39
	25	337.6	10.90	402.9	13.20	468.2	15.62	501.8	16.87	524.2	18.15	548.0	20.81	559.4	21.52
	30	337.6	11.04	402.9	13.36	468.2	15.80	501.8	17.08	524.2	18.36	548.0	21.04	559.4	21.78
	35	337.6	11.19	402.9	13.51	468.2	15.99	501.8	17.30	524.2	18.58	548.0	21.30	559.4	22.04
	40	337.6	11.32	402.9	13.69	468.2	16.20	501.8	17.51	524.2	18.82	548.0	21.57	559.4	22.32
	45	337.6	11.45	402.9	13.84	468.2	16.38	501.8	17.72	524.2	19.03	548.0	21.80	559.4	22.58
	50	337.6	11.57	402.9	14.00	468.2	16.56	501.8	17.90	524.2	19.25	548.0	22.06	559.4	22.83
	55	337.6	11.76	402.9	14.26	468.2	16.88	501.8	18.29	518.6	19.63	540.3	22.44	553.7	23.00
	60	337.6	12.15	402.9	14.77	468.2	17.58	498.0	18.99	503.6	20.40	527.0	23.15	538.4	23.55
	65	337.6	12.40	402.9	15.09	468.2	17.90	490.6	19.37	498.0	20.78	519.4	23.91	532.7	24.10
	70	337.6	12.17	402.9	14.78	468.2	18.19	481.3	20.01	486.8	21.96	509.9	24.39	521.3	24.64
	75	337.6	12.47	402.9	15.76	468.2	19.47	473.8	21.47	481.3	23.54	502.3	25.55	515.6	25.73
	80	337.6	14.17	402.9	17.95	455.1	22.27	460.7	24.58	466.3	27.01	489.0	27.74	500.4	27.98
	85	337.6	15.09	402.9	19.16	447.7	23.79	453.3	26.22	460.7	28.65	481.4	28.90	494.7	29.14
	90	337.6	17.09	402.9	21.78	434.6	27.01	440.2	29.87	445.8	30.90	468.0	31.15	479.5	31.45
	95	341.2	18.13	407.2	23.18	431.7	28.84	437.3	31.88	444.9	32.00	465.3	32.30	478.7	32.61
	100	341.2	19.62	407.2	25.07	424.1	31.26	431.7	33.55	437.3	33.73	459.5	34.05	471.1	34.36
	105	341.2	22.11	400.7	28.38	412.8	35.28	419.5	36.07	425.0	36.27	446.1	36.58	453.6	36.92
	110	341.2	24.84	390.5	31.97	403.1	38.46	404.4	38.65	410.3	38.77	423.1	39.15	424.7	39.53
	115	331.8	28.74	376.2	36.76	376.2	40.54	376.2	40.54	376.2	40.54	385.4	40.61	387.1	40.69
	118	296.2	25.37	327.1	31.15	327.5	34.09	327.5	34.40	327.5	34.40	335.6	34.46	334.2	34.52
	122	236.7	19.24	262.3	23.69	261.0	25.95	261.7	26.01	262.3	26.04	269.5	26.12	269.0	26.23
110	23	312.9	9.96	373.2	12.05	433.5	14.25	463.7	15.40	493.9	16.56	544.1	18.98	555.6	19.61
	25	312.9	10.02	373.2	12.11	433.5	14.34	463.7	15.51	493.9	16.66	544.1	19.07	555.6	19.73
	30	312.9	10.14	373.2	12.27	433.5	14.51	463.7	15.69	493.9	16.86	544.1	19.33	555.6	19.97
	35	312.9	10.29	373.2	12.44	433.5	14.71	463.7	15.91	493.9	17.12	544.1	19.61	555.6	20.30
	40	312.9	10.43	373.2	12.62	433.5	14.93	463.7	16.14	493.9	17.35	544.1	19.88	555.6	20.55
	45	312.9	10.61	373.2	12.82	433.5	15.17	463.7	16.40	493.9	17.63	544.1	20.21	555.6	20.90
	50	312.9	10.78	373.2	13.04	433.5	15.42	463.7	16.67	493.9	17.92	544.1	20.54	555.6	21.23
	55	312.9	10.95	373.2	13.28	433.5	15.72	463.7	17.03	493.9	18.28	536.4	20.90	548.0	21.42
	60	312.9	11.31	373.2	13.75	433.5	16.37	463.7	17.68	493.9	18.99	523.0	21.55	534.5	21.75
	65	312.9	11.55	373.2	14.05	433.5	16.67	463.7	18.04	493.9	19.35	515.3	22.27	526.8	22.44
	70	312.9	11.67	373.2	14.17	433.5	17.44	463.7	19.19	484.4	21.06	505.7	23.39	517.2	23.62
	75	312.9	11.96	373.2	15.11	433.5	18.67	463.7	20.59	476.9	22.57	498.0	24.50	509.5	24.67
	80	309.7	13.59	369.4	17.21	429.1	21.35	453.4	23.57	459.0	25.90	479.6	26.60	491.0	26.83
	85	309.7	14.47	369.4	18.37	429.1	22.81	445.9	25.14	451.5	27.47	472.0	27.71	483.4	27.94
	90	309.7	16.39	369.4	20.88	427.3	25.90	432.8	28.64	438.4	29.63	458.6	29.87	470.1	30.16
	95	309.7	17.38	369.4	22.22	419.8	27.65	425.4	30.57	431.0	30.68	451.0	30.97	462.4	31.27
	100	309.7	18.82	369.4	24.04	414.2	29.97	419.8	32.17	425.4	32.35	445.3	32.65	456.7	32.94
	105	309.7	21.21	369.4	27.19	401.3	33.82	406.8	34.61	412.4	34.78	432.2	35.09	443.3	35.42
	110	309.7	23.82	369.4	30.65	388.8	36.88	390.0	37.06	395.8	37.18	408.1	37.54	409.7	37.90
	115	309.7	27.56	369.4	35.25	372.3	38.87	372.3	38.87	374.0	38.87	381.5	38.94	383.2	39.01
	118	299.3	25.11	321.2	29.87	324.2	32.69	324.2	32.98	325.6	32.98	332.1	33.04	330.8	33.10
	122	239.1	19.05	257.6	22.71	258.4	24.89	259.0	24.94	260.8	24.97	266.7	25.05	266.3	25.15

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN408BT3, ARUN408DT3 / ARUB408BT3, ARUB408DT3 Cooling Capacity

408,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	275	9	327.9	10.89	380.7	12.88	408	13.93	448.4	15.2	502.8	17.42	530.9	18.11
	25	275	9.08	327.9	10.98	380.7	12.99	408	14.07	448.4	15.32	502.8	17.59	530.9	18.3
	30	275	9.3	327.9	11.26	380.7	13.31	408	14.39	448.4	15.7	502.8	18	530.9	18.72
	35	275	9.44	327.9	11.44	380.7	13.52	408	14.62	448.4	15.96	502.8	18.3	530.9	19.03
	40	275	9.6	327.9	11.62	380.7	13.74	408	14.86	448.4	16.21	502.8	18.58	530.9	19.32
	45	275	9.82	327.9	11.87	380.7	14.02	408	15.18	448.4	16.54	502.8	18.97	530.9	19.72
	50	275	10	327.9	12.1	380.7	14.31	408	15.47	448.4	16.88	502.8	19.35	530.9	20.12
	55	275	10.17	327.9	12.32	380.7	14.59	408	15.81	448.4	17.22	502.8	19.69	525.3	20.42
	60	275	10.5	327.9	12.77	380.7	15.2	408	16.41	448.4	17.89	500.9	20.31	510.3	20.79
	65	275	10.72	327.9	13.04	380.7	15.47	408	16.75	448.4	18.23	493.4	20.98	504.7	21.4
	70	275	11.05	327.9	13.43	380.7	16.52	408	18.18	448.4	20.25	484	22.49	493.4	22.89
	75	275	11.33	327.9	14.31	380.7	17.69	408	19.51	448.4	21.71	476.5	23.56	487.8	23.85
	80	275	12.88	327.9	16.3	380.7	20.23	408	22.33	448.4	24.91	463.4	25.58	472.8	25.93
	85	275	13.71	327.9	17.41	380.7	21.61	408	23.82	446.5	26.42	455.9	26.65	467.1	27
	90	275	15.53	327.9	19.79	380.7	24.54	408	27.14	431.5	28.5	442.8	28.72	452.1	29.14
	95	275	16.47	327.9	21.06	380.7	26.2	**408**	**28.96**	425.9	29.51	435.2	29.79	446.5	30.22
	100	275	17.79	327.9	22.72	380.7	28.33	400.7	30.41	418.6	31.03	429.5	31.32	439.2	31.76
	105	275	19.98	327.9	25.6	378.6	31.86	389.6	32.58	406	33.25	416.6	33.54	426.8	34
	110	275	22.34	327.9	28.74	374.2	34.58	382.7	34.75	390.4	35.39	396.6	35.74	403.9	36.26
	115	275	25.66	327.9	32.83	356.2	36.2	367.2	36.2	376.4	36.74	379.9	36.81	381.6	37.06
	118	275.0	25.88	287.6	30.79	310.1	30.44	319.7	30.72	327.7	31.18	330.8	31.23	329.4	31.44
	122	235.3	23.44	230.7	23.41	247.2	23.17	255.5	23.23	262.5	23.60	265.6	23.67	265.1	23.89
90	23	247.7	8.05	295.1	9.69	344.3	11.43	367.9	12.33	391.6	13.27	439	15.07	486.3	16.64
	25	247.7	8.17	295.1	9.82	344.3	11.58	367.9	12.48	391.6	13.41	439	15.29	486.3	16.85
	30	247.7	8.4	295.1	10.11	344.3	11.92	367.9	12.86	391.6	13.84	439	15.72	486.3	17.36
	35	247.7	8.66	295.1	10.43	344.3	12.28	367.9	13.23	391.6	14.25	439	16.19	486.3	17.9
	40	247.7	8.91	295.1	10.73	344.3	12.65	367.9	13.64	391.6	14.69	439	16.68	486.3	18.42
	45	247.7	9.12	295.1	10.98	344.3	12.95	367.9	13.96	391.6	15.03	439	17.06	486.3	18.85
	50	247.7	9.32	295.1	11.22	344.3	13.23	367.9	14.27	391.6	15.36	439	17.45	486.3	19.26
	55	247.7	9.44	295.1	11.39	344.3	13.46	367.9	14.56	391.6	15.65	439	17.79	486.3	19.44
	60	247.7	9.78	295.1	11.85	344.3	13.98	367.9	15.13	391.6	16.28	439	18.48	482.2	19.66
	65	247.7	9.95	295.1	12.08	344.3	14.27	367.9	15.42	391.6	16.57	439	18.82	479	20.65
	70	247.7	10.24	295.1	12.43	344.3	14.79	367.9	16.28	391.6	17.78	439	20.99	469.9	22.18
	75	247.7	10.41	295.1	13	344.3	15.82	367.9	17.43	391.6	19.1	439	21.9	462.6	23.17
	80	247.7	11.68	295.1	14.73	344.3	18.07	367.9	19.91	391.6	21.8	439	24.21	449.9	25.19
	85	247.7	12.43	295.1	15.71	344.3	19.33	367.9	21.23	391.6	23.3	433.5	25.49	442.6	26.23
	90	247.7	14.04	295.1	17.78	344.3	21.92	367.9	24.16	391.6	26.52	420.8	27.9	429.9	28.32
	95	247.7	14.96	295.1	18.87	344.3	23.36	367.9	25.77	391.6	28.31	413.5	28.96	422.6	29.36
	100	247.7	15.45	295.1	19.67	344.3	24.33	367.9	26.79	391.6	28.93	408	30.21	415.3	30.54
	105	247.7	17.9	295.1	22.82	344.3	27.51	367.9	29.34	387.2	31.02	395.4	32.38	400.7	32.78
	110	247.7	20.56	295.1	26.32	344.3	30.18	367.9	31.68	371.6	33.63	376.5	34.78	379.5	35.17
	115	247.7	22.26	295.1	28.53	322.4	31.78	348.8	33.14	353.8	34.71	357.1	35.47	358.7	35.92
	118	247.7	23.64	287.6	30.79	280.7	26.73	303.7	28.12	308.0	29.45	310.9	30.09	309.6	30.48
	122	235.3	23.44	230.7	23.41	223.7	20.35	242.7	21.27	246.7	22.30	249.7	22.81	249.2	23.16
80	23	220.4	7.03	262.3	8.42	306	9.88	326	10.67	347.9	11.42	389.8	13.09	431.7	14.66
	25	220.4	7.1	262.3	8.51	306	9.96	326	10.77	347.9	11.56	389.8	13.23	431.7	14.8
	30	220.4	7.31	262.3	8.75	306	10.27	326	11.09	347.9	11.87	389.8	13.61	431.7	15.24
	35	220.4	7.5	262.3	9.01	306	10.57	326	11.38	347.9	12.19	389.8	13.99	431.7	15.67
	40	220.4	7.71	262.3	9.24	306	10.84	326	11.7	347.9	12.52	389.8	14.36	431.7	16.08
	45	220.4	7.82	262.3	9.35	306	11	326	11.87	347.9	12.68	389.8	14.57	431.7	16.3
	50	220.4	7.92	262.3	9.49	306	11.14	326	12.03	347.9	12.87	389.8	14.76	431.7	16.53
	55	220.4	8.04	262.3	9.65	306	11.34	326	12.23	347.9	13.11	389.8	15.04	431.7	16.81
	60	220.4	8.33	262.3	9.98	306	11.74	326	12.67	347.9	13.64	389.8	15.57	431.7	17.5
	65	220.4	8.45	262.3	10.18	306	11.99	326	12.91	347.9	13.92	389.8	15.85	431.7	17.9
	70	220.4	8.69	262.3	10.46	306	12.35	326	13.31	347.9	14.48	389.8	17.09	431.7	19.79
	75	220.4	8.85	262.3	10.66	306	12.95	326	14.2	347.9	15.45	389.8	18.18	431.7	20.87
	80	220.4	9.69	262.3	12.11	306	14.76	326	16.13	347.9	17.62	389.8	20.92	431.7	23.31
	85	220.4	10.34	262.3	12.87	306	15.73	326	17.22	347.9	18.86	389.8	22.28	431.7	23.92
	90	220.4	11.62	262.3	14.6	306	17.78	326	19.55	347.9	21.44	389.8	24.5	424.6	25.34
	95	220.4	12.35	262.3	15.45	306	18.98	326	20.75	347.9	22.81	389.8	25.34	415.5	26.03
	100	220.4	13.31	262.3	16.65	306	20.47	326	22.23	347.9	23.71	389.8	26.39	406.2	26.88
	105	220.4	15.18	262.3	19.06	306	22.79	326	23.86	347.9	25.43	385.2	27.43	394.5	28.21
	110	220.4	17.22	262.3	21.72	306	24.18	326	25.48	347.9	27.39	371.6	28.44	373.4	29.66
	115	220.4	18.42	262.3	23.21	306	24.99	326	26.79	326	28.03	328	29.08	328	30.84
	118	220.4	19.56	262.3	24.67	280.7	26.73	286.3	25.43	283.9	23.79	285.6	24.67	283.2	26.17
	122	220.4	21.14	231.4	23.26	223.7	20.35	228.8	19.23	227.4	18.01	229.3	18.70	227.9	19.88

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN408BT3, ARUN408DT3 / ARUB408BT3, ARUB408DT3

408,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	193.1	6.17	229.5	7.31	267.8	8.56	286	9.2	304.2	9.85	340.6	11.2	378.9	12.59
	25	193.1	6.23	229.5	7.38	267.8	8.66	286	9.3	304.2	9.93	340.6	11.32	378.9	12.71
	30	193.1	6.39	229.5	7.58	267.8	8.87	286	9.54	304.2	10.2	340.6	11.61	378.9	13.05
	35	193.1	6.57	229.5	7.79	267.8	9.12	286	9.79	304.2	10.48	340.6	11.9	378.9	13.41
	40	193.1	6.74	229.5	7.98	267.8	9.34	286	10.05	304.2	10.75	340.6	12.23	378.9	13.74
	45	193.1	6.83	229.5	8.11	267.8	9.5	286	10.22	304.2	10.92	340.6	12.42	378.9	13.96
	50	193.1	6.96	229.5	8.25	267.8	9.65	286	10.38	304.2	11.1	340.6	12.63	378.9	14.2
	55	193.1	7.08	229.5	8.41	267.8	9.81	286	10.54	304.2	11.3	340.6	12.87	378.9	14.48
	60	193.1	7.28	229.5	8.69	267.8	10.18	286	10.94	304.2	11.7	340.6	13.35	378.9	15.04
	65	193.1	7.4	229.5	8.85	267.8	10.34	286	11.14	304.2	11.95	340.6	13.6	378.9	15.28
	70	193.1	7.6	229.5	9.09	267.8	10.66	286	11.46	304.2	12.31	340.6	14.08	378.9	16.25
	75	193.1	7.72	229.5	9.25	267.8	10.86	286	11.87	304.2	12.87	340.6	15.04	378.9	17.21
	80	193.1	8.33	229.5	10.22	267.8	12.35	286	13.47	304.2	14.6	340.6	16.64	378.9	19.08
	85	193.1	8.85	229.5	10.86	267.8	13.15	286	14.36	304.2	15.73	340.6	17.72	378.9	19.89
	90	193.1	9.93	229.5	12.27	267.8	14.88	286	16.25	304.2	17.78	340.6	19.76	378.9	21.59
	95	193.1	10.5	229.5	13.03	267.8	15.85	286	17.34	304.2	18.86	340.6	20.78	378.9	22.24
	100	193.1	11.34	229.5	14.08	267.8	17.09	286	18.7	304.2	19.43	340.6	21.75	378.9	22.87
	105	193.1	12.86	229.5	16.04	267.8	18.85	286	19.95	304.2	21.11	340.6	22.91	378.9	24.21
	110	193.1	14.48	229.5	18.18	267.8	19.95	286	21.16	304.2	22.89	340.6	23.86	367.9	26.03
	115	193.1	15.57	229.5	19.39	267.8	20.63	286	22.36	304.2	23.55	340.6	24.58	346.8	27.71
	118	193.1	16.53	229.5	20.60	267.8	21.92	286.0	23.70	276.8	23.55	285.6	20.86	283.2	23.51
	122	193.1	17.83	229.5	22.31	239.0	20.93	228.5	19.49	221.7	17.83	229.3	15.81	227.9	17.87
60	23	165.8	5.29	196.7	6.23	229.5	7.24	244.1	7.78	260.5	8.33	293.3	9.45	324.2	10.61
	25	165.8	5.36	196.7	6.28	229.5	7.33	244.1	7.86	260.5	8.43	293.3	9.56	324.2	10.72
	30	165.8	5.48	196.7	6.46	229.5	7.51	244.1	8.08	260.5	8.64	293.3	9.81	324.2	11.01
	35	165.8	5.62	196.7	6.63	229.5	7.7	244.1	8.28	260.5	8.86	293.3	10.05	324.2	11.29
	40	165.8	5.77	196.7	6.8	229.5	7.91	244.1	8.5	260.5	9.09	293.3	10.32	324.2	11.58
	45	165.8	5.82	196.7	6.86	229.5	7.96	244.1	8.57	260.5	9.18	293.3	10.4	324.2	11.67
	50	165.8	5.87	196.7	6.92	229.5	8.04	244.1	8.65	260.5	9.25	293.3	10.5	324.2	11.79
	55	165.8	5.95	196.7	7.04	229.5	8.21	244.1	8.81	260.5	9.41	293.3	10.7	324.2	11.99
	60	165.8	6.15	196.7	7.28	229.5	8.49	244.1	9.13	260.5	9.77	293.3	11.06	324.2	12.47
	65	165.8	6.23	196.7	7.4	229.5	8.65	244.1	9.29	260.5	9.93	293.3	11.3	324.2	12.71
	70	165.8	6.4	196.7	7.6	229.5	8.89	244.1	9.53	260.5	10.22	293.3	11.62	324.2	13.19
	75	165.8	6.52	196.7	7.72	229.5	9.05	244.1	9.73	260.5	10.54	293.3	12.31	324.2	14.05
	80	165.8	6.92	196.7	8.45	229.5	10.14	244.1	11.06	260.5	11.99	293.3	13.79	324.2	15.88
	85	165.8	7.36	196.7	8.97	229.5	10.78	244.1	11.79	260.5	12.83	293.3	14.52	324.2	16.38
	90	165.8	8.25	196.7	10.14	229.5	12.19	244.1	13.31	260.5	14.41	293.3	16.23	324.2	17.87
	95	165.8	8.73	196.7	10.74	229.5	12.95	244.1	14.2	260.5	15.26	293.3	16.96	324.2	18.82
	100	165.8	9.37	196.7	11.54	229.5	13.96	244.1	15.28	260.5	15.95	293.3	17.99	324.2	19.63
	105	165.8	10.66	196.7	13.15	229.5	15.41	244.1	16.3	260.5	17.35	293.3	19.11	324.2	21.4
	110	165.8	11.99	196.7	14.92	229.5	16.62	244.1	17.3	260.5	18.74	293.3	20.44	324.2	23.34
	115	165.8	12.83	196.7	15.93	229.5	17.27	244.1	18.3	260.5	19.41	293.3	21.61	324.2	24.95
	118	165.8	13.58	196.7	16.89	229.5	18.34	244.1	19.44	260.5	20.66	285.6	20.86	283.2	23.51
	122	165.8	14.64	196.7	18.27	229.5	19.87	228.0	19.72	220.6	18.26	229.3	15.81	227.9	17.87
50	23	137.7	4.62	163.9	5.36	191.3	6.14	204	6.53	216.8	6.98	244.1	7.81	269.6	8.7
	25	137.7	4.66	163.9	5.43	191.3	6.18	204	6.6	216.8	7.07	244.1	7.89	269.6	8.77
	30	137.7	4.8	163.9	5.56	191.3	6.38	204	6.79	216.8	7.25	244.1	8.12	269.6	9.03
	35	137.7	4.92	163.9	5.71	191.3	6.54	204	6.98	216.8	7.44	244.1	8.34	269.6	9.27
	40	137.7	5.05	163.9	5.86	191.3	6.71	204	7.14	216.8	7.63	244.1	8.54	269.6	9.51
	45	137.7	5.13	163.9	5.94	191.3	6.81	204	7.24	216.8	7.73	244.1	8.66	269.6	9.64
	50	137.7	5.2	163.9	6.02	191.3	6.91	204	7.35	216.8	7.85	244.1	8.79	269.6	9.78
	55	137.7	5.31	163.9	6.13	191.3	7.02	204	7.46	216.8	7.96	244.1	8.95	269.6	9.95
	60	137.7	5.42	163.9	6.3	191.3	7.24	204	7.74	216.8	8.23	244.1	9.23	269.6	10.33
	65	137.7	5.47	163.9	6.41	191.3	7.35	204	7.85	216.8	8.35	244.1	9.4	269.6	10.5
	70	137.7	5.64	163.9	6.52	191.3	7.52	204	8.07	216.8	8.57	244.1	9.67	269.6	10.83
	75	137.7	5.69	163.9	6.63	191.3	7.68	204	8.18	216.8	8.73	244.1	9.84	269.6	11.05
	80	137.7	5.86	163.9	7.02	191.3	8.23	204	8.9	216.8	9.56	244.1	11	269.6	12.55
	85	137.7	6.25	163.9	7.41	191.3	8.73	204	9.45	216.8	10.17	244.1	11.72	269.6	13.37
	90	137.7	6.96	163.9	8.29	191.3	9.84	204	10.61	216.8	11.44	244.1	13.21	269.6	15.14
	95	137.7	7.35	163.9	8.79	191.3	10.39	204	11.27	216.8	12.16	244.1	14.04	269.6	16.08
	100	137.7	7.74	163.9	9.28	191.3	11	204	11.94	216.8	12.88	244.1	14.92	269.6	17.08
	105	137.7	8.46	163.9	10.25	191.3	12.16	204	13.18	216.8	14.25	244.1	16.54	269.6	19
	110	137.7	9.34	163.9	11.33	191.3	13.49	204	14.65	216.8	15.86	244.1	18.46	269.6	21.22
	115	137.7	10	163.9	12.16	191.3	14.48	204	15.75	216.8	17.08	244.1	19.9	269.6	22.88
	118	137.7	10.81	163.9	13.19	191.3	15.74	204.0	17.13	216.8	18.59	244.1	20.86	269.6	23.51
	122	137.7	11.92	163.9	14.58	191.3	17.41	204.0	19.02	216.8	18.26	229.3	15.81	227.9	17.87

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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ARUN432BT3, ARUN432DT3 / ARUB432BT3, ARUB432DT3 Cooling Capacity

432,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	23	392.8	12.25	466.6	14.83	542.4	17.53	562.3	18.96	570.3	20.38	590.1	23.36	604.2	24.17
	25	392.8	12.31	466.6	14.90	542.4	17.64	562.3	19.06	570.3	20.51	590.1	23.51	604.2	24.32
	30	392.8	12.48	466.6	15.09	542.4	17.85	562.3	19.30	570.3	20.75	590.1	23.78	604.2	24.61
	35	392.8	12.61	466.6	15.29	542.4	18.06	562.3	19.51	570.3	21.00	590.1	24.06	604.2	24.90
	40	392.8	12.78	466.6	15.46	542.4	18.28	562.3	19.76	570.3	21.25	590.1	24.35	604.2	25.20
	45	392.8	12.90	466.6	15.61	542.4	18.48	562.3	19.97	570.3	21.45	590.1	24.61	604.2	25.45
	50	392.8	13.04	466.6	15.77	542.4	18.65	562.3	20.17	570.3	21.68	590.1	24.85	604.2	25.71
	55	392.8	13.25	466.6	16.06	542.4	19.01	554.4	20.60	562.3	22.11	582.1	25.28	596.2	25.89
	60	392.8	13.68	466.6	16.64	534.4	19.81	542.0	21.39	548.4	22.98	568.0	26.07	582.1	26.18
	65	392.8	13.97	466.6	17.00	526.5	20.17	534.4	21.82	540.4	23.41	559.9	26.94	574.0	27.15
	70	392.8	13.44	466.6	16.33	516.5	20.10	522.5	22.12	530.4	24.27	549.8	26.96	563.9	27.22
	75	392.8	13.78	466.6	17.41	508.5	21.51	514.5	23.73	522.5	26.01	541.8	28.23	555.9	28.43
	80	392.8	15.66	466.6	19.83	494.5	24.60	500.5	27.16	508.5	29.85	527.7	30.65	541.8	30.92
	85	392.8	16.67	466.6	21.17	486.6	26.28	494.5	28.97	500.5	31.66	519.6	31.93	533.7	32.20
	90	392.8	18.89	458.7	24.06	472.6	29.85	478.6	33.01	486.6	34.15	505.5	34.42	519.6	34.75
	95	397.0	20.03	455.5	25.61	469.6	31.86	477.6	35.22	483.7	35.36	502.8	35.69	517.0	36.03
	100	397.0	21.68	447.4	27.70	461.5	34.54	469.6	37.07	475.6	37.28	496.7	37.62	510.9	37.96
	105	397.0	24.45	435.4	31.34	449.4	38.96	456.4	39.86	463.3	40.07	479.3	40.43	486.3	40.82
	110	397.0	27.45	417.3	35.32	434.8	42.49	436.1	42.70	442.6	42.85	451.9	43.26	453.6	43.68
	115	395.0	31.76	402.2	40.62	402.2	44.80	402.2	44.80	402.2	44.80	408.0	44.88	409.9	44.96
	118	343.5	26.91	349.7	34.42	350.2	37.67	350.2	38.01	350.2	38.01	355.3	38.08	353.8	38.15
	122	274.4	20.41	280.5	26.17	279.1	28.68	279.8	28.74	280.5	28.78	285.3	28.86	284.8	28.98
120	23	357.5	11.50	426.6	13.92	495.7	16.46	531.3	17.79	555.0	19.13	580.2	21.93	592.3	22.69
	25	357.5	11.57	426.6	14.00	495.7	16.56	531.3	17.89	555.0	19.25	580.2	22.07	592.3	22.83
	30	357.5	11.71	426.6	14.17	495.7	16.76	531.3	18.12	555.0	19.48	580.2	22.32	592.3	23.10
	35	357.5	11.87	426.6	14.33	495.7	16.96	531.3	18.35	555.0	19.71	580.2	22.59	592.3	23.38
	40	357.5	12.01	426.6	14.53	495.7	17.18	531.3	18.57	555.0	19.97	580.2	22.88	592.3	23.68
	45	357.5	12.15	426.6	14.68	495.7	17.37	531.3	18.80	555.0	20.19	580.2	23.13	592.3	23.95
	50	357.5	12.28	426.6	14.85	495.7	17.57	531.3	18.99	555.0	20.42	580.2	23.40	592.3	24.21
	55	357.5	12.48	426.6	15.12	495.7	17.91	531.3	19.40	549.1	20.82	572.1	23.81	586.2	24.39
	60	357.5	12.89	426.6	15.67	495.7	18.65	527.3	20.14	533.3	21.64	558.0	24.55	570.1	24.98
	65	357.5	13.16	426.6	16.01	495.7	18.99	519.4	20.55	527.3	22.04	550.0	25.37	564.1	25.57
	70	357.5	12.91	426.6	15.68	495.7	19.29	509.6	21.23	515.5	23.30	539.9	25.88	552.0	26.14
	75	357.5	13.23	426.6	16.71	495.7	20.65	501.7	22.78	509.6	24.97	531.8	27.10	545.9	27.30
	80	357.5	15.04	426.6	19.04	481.9	23.62	487.8	26.07	493.8	28.65	517.7	29.43	529.8	29.68
	85	357.5	16.00	426.6	20.33	474.0	25.23	479.9	27.81	487.8	30.39	509.7	30.65	523.8	30.91
	90	357.5	18.13	426.6	23.10	460.2	28.65	466.1	31.69	472.0	32.78	495.6	33.04	507.7	33.36
	95	361.2	19.23	431.1	24.59	457.0	30.59	463.0	33.81	471.0	33.94	492.7	34.27	506.9	34.59
	100	361.2	20.82	431.1	26.59	449.1	33.16	457.0	35.59	463.0	35.78	486.5	36.12	498.8	36.44
	105	361.2	23.45	424.3	30.11	437.1	37.42	444.2	38.26	450.0	38.47	472.4	38.81	480.2	39.17
	110	361.2	26.35	413.4	33.91	426.9	40.80	428.1	41.00	434.5	41.13	448.0	41.53	449.7	41.93
	115	351.3	30.49	398.3	39.00	398.3	43.01	398.3	43.01	398.3	43.01	408.1	43.08	409.9	43.16
	118	313.6	26.91	346.3	33.04	346.8	36.16	346.8	36.49	346.8	36.49	355.3	36.55	353.8	36.62
	122	250.6	20.41	277.8	25.12	276.4	27.53	277.1	27.60	277.8	27.63	285.3	27.71	284.8	27.83
110	23	331.3	10.56	395.2	12.78	459.0	15.11	491.0	16.34	522.9	17.56	576.1	20.13	588.3	20.80
	25	331.3	10.63	395.2	12.85	459.0	15.21	491.0	16.45	522.9	17.67	576.1	20.22	588.3	20.92
	30	331.3	10.76	395.2	13.01	459.0	15.39	491.0	16.64	522.9	17.89	576.1	20.50	588.3	21.19
	35	331.3	10.92	395.2	13.20	459.0	15.60	491.0	16.88	522.9	18.16	576.1	20.80	588.3	21.53
	40	331.3	11.06	395.2	13.39	459.0	15.83	491.0	17.12	522.9	18.40	576.1	21.09	588.3	21.79
	45	331.3	11.25	395.2	13.59	459.0	16.09	491.0	17.40	522.9	18.70	576.1	21.44	588.3	22.17
	50	331.3	11.43	395.2	13.83	459.0	16.36	491.0	17.68	522.9	19.01	576.1	21.79	588.3	22.52
	55	331.3	11.62	395.2	14.08	459.0	16.67	491.0	18.06	522.9	19.39	568.0	22.17	580.2	22.72
	60	331.3	12.00	395.2	14.59	459.0	17.37	491.0	18.76	522.9	20.15	553.7	22.86	565.9	23.07
	65	331.3	12.25	395.2	14.90	459.0	17.68	491.0	19.14	522.9	20.52	545.6	23.62	557.8	23.81
	70	331.3	12.38	395.2	15.04	459.0	18.50	491.0	20.36	512.9	22.34	535.4	24.81	547.6	25.06
	75	331.3	12.68	395.2	16.03	459.0	19.80	491.0	21.84	504.9	23.95	527.3	25.99	539.5	26.17
	80	327.9	14.42	391.1	18.25	454.4	22.65	480.0	25.00	486.0	27.47	507.8	28.22	519.9	28.46
	85	327.9	15.35	391.1	19.49	454.4	24.19	472.1	26.67	478.1	29.14	499.7	29.39	511.8	29.64
	90	327.9	17.39	391.1	22.15	452.4	27.47	458.3	30.38	464.2	31.43	485.6	31.68	497.7	31.99
	95	327.9	18.44	391.1	23.58	444.5	29.33	450.4	32.42	456.3	32.55	477.6	32.86	489.6	33.17
	100	327.9	19.96	391.1	25.50	438.6	31.79	444.5	34.13	450.4	34.31	471.5	34.63	483.6	34.94
	105	327.9	22.50	391.1	28.84	424.9	35.88	430.8	36.71	436.6	36.89	457.6	37.22	469.3	37.58
	110	327.9	25.26	391.1	32.51	411.7	39.12	413.0	39.31	419.1	39.44	432.1	39.82	433.8	40.21
	115	327.9	29.23	391.1	37.39	394.2	41.24	394.2	41.24	396.0	41.24	403.9	41.31	405.7	41.38
	118	316.9	26.63	340.1	31.68	343.3	34.68	343.3	34.99	344.8	34.99	351.7	35.05	350.2	35.11
	122	253.2	20.20	272.8	24.09	273.6	26.40	274.3	26.46	276.2	26.49	282.4	26.57	281.9	26.68

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Cooling Capacity

ARUN432BT3, ARUN432DT3 / ARUB432BT3, ARUB432DT3

432,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		**80/67**		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	23	291.2	9.55	347.1	11.56	403.1	13.67	432	14.77	474.8	16.12	532.4	18.48	562.2	19.21
	25	291.2	9.63	347.1	11.64	403.1	13.78	432	14.93	474.8	16.25	532.4	18.66	562.2	19.42
	30	291.2	9.87	347.1	11.94	403.1	14.12	432	15.27	474.8	16.66	532.4	19.09	562.2	19.85
	35	291.2	10.01	347.1	12.13	403.1	14.35	432	15.51	474.8	16.93	532.4	19.42	562.2	20.18
	40	291.2	10.19	347.1	12.33	403.1	14.58	432	15.76	474.8	17.19	532.4	19.71	562.2	20.49
	45	291.2	10.41	347.1	12.6	403.1	14.87	432	16.1	474.8	17.54	532.4	20.12	562.2	20.92
	50	291.2	10.61	347.1	12.84	403.1	15.18	432	16.42	474.8	17.91	532.4	20.53	562.2	21.35
	55	291.2	10.79	347.1	13.07	403.1	15.48	432	16.77	474.8	18.27	532.4	20.89	556.2	21.66
	60	291.2	11.14	347.1	13.54	403.1	16.12	432	17.41	474.8	18.98	530.4	21.54	540.3	22.05
	65	291.2	11.37	347.1	13.84	403.1	16.42	432	17.76	474.8	19.34	522.4	22.25	534.3	22.7
	70	291.2	11.73	347.1	14.25	403.1	17.53	432	19.29	474.8	21.48	512.5	23.86	522.4	24.28
	75	291.2	12.02	347.1	15.18	403.1	18.76	432	20.69	474.8	23.03	504.6	24.99	516.5	25.29
	80	291.2	13.66	347.1	17.29	403.1	21.46	432	23.68	474.8	26.42	490.6	27.13	500.6	27.51
	85	291.2	14.54	347.1	18.47	403.1	22.92	432	25.27	472.8	28.03	482.7	28.27	494.6	28.64
	90	291.2	16.47	347.1	20.99	403.1	26.03	432	28.79	456.9	30.23	468.8	30.47	478.7	30.92
	95	291.2	17.47	347.1	22.34	403.1	27.79	**432**	**30.72**	450.9	31.3	460.9	31.6	472.8	32.05
	100	291.2	18.87	347.1	24.1	403.1	30.05	424.3	32.26	443.2	32.92	454.8	33.22	465.1	33.69
	105	291.2	21.2	347.1	27.16	400.9	33.79	412.6	34.56	429.8	35.27	441.1	35.57	451.9	36.07
	110	291.2	23.69	347.1	30.49	396.2	36.68	405.2	36.86	413.4	37.54	420	37.91	427.6	38.46
	115	291.2	27.22	347.1	34.82	377.1	38.4	388.8	38.4	398.5	38.98	402.2	39.05	404	39.31
	118	291.2	27.46	304.5	32.66	328.4	32.29	338.5	32.58	347.0	33.07	350.2	33.13	348.8	33.35
	122	249.1	24.86	244.2	24.84	261.7	24.58	270.5	24.64	277.9	25.04	281.2	25.11	280.7	25.34
90	23	262.3	8.54	312.4	10.28	364.5	12.13	389.6	13.08	414.6	14.08	464.8	15.99	514.9	17.65
	25	262.3	8.66	312.4	10.41	364.5	12.29	389.6	13.24	414.6	14.22	464.8	16.22	514.9	17.88
	30	262.3	8.91	312.4	10.72	364.5	12.65	389.6	13.64	414.6	14.68	464.8	16.67	514.9	18.41
	35	262.3	9.19	312.4	11.06	364.5	13.03	389.6	14.04	414.6	15.11	464.8	17.17	514.9	18.98
	40	262.3	9.45	312.4	11.38	364.5	13.42	389.6	14.47	414.6	15.58	464.8	17.69	514.9	19.53
	45	262.3	9.68	312.4	11.64	364.5	13.73	389.6	14.81	414.6	15.94	464.8	18.09	514.9	20
	50	262.3	9.89	312.4	11.9	364.5	14.04	389.6	15.14	414.6	16.29	464.8	18.51	514.9	20.43
	55	262.3	10.01	312.4	12.08	364.5	14.28	389.6	15.44	414.6	16.6	464.8	18.87	514.9	20.62
	60	262.3	10.37	312.4	12.57	364.5	14.83	389.6	16.05	414.6	17.27	464.8	19.6	510.6	20.86
	65	262.3	10.56	312.4	12.82	364.5	15.14	389.6	16.36	414.6	17.58	464.8	19.96	507.2	21.9
	70	262.3	10.86	312.4	13.18	364.5	15.68	389.6	17.27	414.6	18.86	464.8	22.27	497.6	23.53
	75	262.3	11.05	312.4	13.79	364.5	16.78	389.6	18.49	414.6	20.26	464.8	23.23	489.9	24.58
	80	262.3	12.39	312.4	15.62	364.5	19.16	389.6	21.12	414.6	23.13	464.8	25.68	476.4	26.73
	85	262.3	13.18	312.4	16.66	364.5	20.51	389.6	22.52	414.6	24.72	459	27.04	468.6	27.83
	90	262.3	14.89	312.4	18.86	364.5	23.25	389.6	25.63	414.6	28.13	445.5	29.6	455.1	30.04
	95	262.3	15.87	312.4	20.02	364.5	24.78	389.6	27.34	414.6	30.03	437.8	30.72	447.4	31.14
	100	262.3	16.38	312.4	20.86	364.5	25.81	389.6	28.42	414.6	30.69	432	32.04	439.7	32.39
	105	262.3	18.98	312.4	24.21	364.5	29.18	389.6	31.12	410	32.9	418.6	34.34	424.2	34.78
	110	262.3	21.81	312.4	27.92	364.5	32.02	389.6	33.6	393.4	35.67	398.6	36.89	401.8	37.31
	115	262.3	23.62	312.4	30.26	341.4	33.71	369.4	35.16	374.6	36.81	378.1	37.62	379.8	38.1
	118	262.3	25.08	304.5	32.66	297.2	28.35	321.6	29.83	326.2	31.24	329.2	31.92	327.8	32.33
	122	249.2	24.86	244.2	24.84	236.9	21.58	257.0	22.56	261.3	23.65	264.4	24.20	263.9	24.57
80	23	233.4	7.46	277.7	8.93	324	10.48	345.2	11.32	368.4	12.11	412.7	13.89	457.1	15.55
	25	233.4	7.53	277.7	9.03	324	10.57	345.2	11.43	368.4	12.26	412.7	14.04	457.1	15.7
	30	233.4	7.75	277.7	9.28	324	10.9	345.2	11.76	368.4	12.59	412.7	14.44	457.1	16.17
	35	233.4	7.96	277.7	9.55	324	11.21	345.2	12.07	368.4	12.93	412.7	14.84	457.1	16.62
	40	233.4	8.18	277.7	9.8	324	11.5	345.2	12.41	368.4	13.28	412.7	15.24	457.1	17.06
	45	233.4	8.29	277.7	9.92	324	11.67	345.2	12.6	368.4	13.46	412.7	15.45	457.1	17.3
	50	233.4	8.41	277.7	10.07	324	11.82	345.2	12.76	368.4	13.65	412.7	15.66	457.1	17.54
	55	233.4	8.53	277.7	10.24	324	12.03	345.2	12.97	368.4	13.91	412.7	15.96	457.1	17.83
	60	233.4	8.83	277.7	10.58	324	12.46	345.2	13.44	368.4	14.46	412.7	16.51	457.1	18.56
	65	233.4	8.96	277.7	10.79	324	12.71	345.2	13.7	368.4	14.76	412.7	16.81	457.1	18.99
	70	233.4	9.22	277.7	11.09	324	13.1	345.2	14.12	368.4	15.36	412.7	18.13	457.1	20.99
	75	233.4	9.39	277.7	11.31	324	13.74	345.2	15.06	368.4	16.38	412.7	19.29	457.1	22.14
	80	233.4	10.28	277.7	12.84	324	15.66	345.2	17.11	368.4	18.69	412.7	22.19	457.1	24.73
	85	233.4	10.97	277.7	13.65	324	16.68	345.2	18.26	368.4	20.01	412.7	23.64	457.1	25.37
	90	233.4	12.33	277.7	15.49	324	18.86	345.2	20.74	368.4	22.74	412.7	25.98	449.6	26.88
	95	233.4	13.1	277.7	16.38	324	20.14	345.2	22.02	368.4	24.19	412.7	26.88	439.9	27.61
	100	233.4	14.12	277.7	17.66	324	21.72	345.2	23.59	368.4	25.15	412.7	27.99	430.1	28.51
	105	233.4	16.1	277.7	20.21	324	24.18	345.2	25.31	368.4	26.97	407.8	29.09	417.7	29.92
	110	233.4	18.26	277.7	23.04	324	25.65	345.2	27.03	368.4	29.06	393.4	30.17	395.4	31.46
	115	233.4	19.54	277.7	24.62	324	26.5	345.2	28.42	345.2	29.74	347.3	30.85	347.3	32.72
	118	233.4	20.74	277.7	26.17	297.2	28.35	303.2	26.97	300.6	25.23	302.4	26.17	299.8	27.76
	122	233.4	22.43	245.0	24.68	236.9	21.58	242.3	20.40	240.8	19.10	242.8	19.84	241.3	21.09

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN432BT3, ARUN432DT3 / ARUB432BT3, ARUB432DT3 Cooling Capacity

432,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp. (°F DB)	Indoor Air Temp. °F DB/°F WB													
		68/57		73/61		79/64		80/67		85/70		88/73		91/76	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	23	204.4	6.55	243	7.76	283.5	9.08	302.8	9.76	322.1	10.45	360.6	11.88	401.1	13.36
	25	204.4	6.6	243	7.83	283.5	9.19	302.8	9.86	322.1	10.54	360.6	12.01	401.1	13.49
	30	204.4	6.78	243	8.04	283.5	9.41	302.8	10.12	322.1	10.82	360.6	12.31	401.1	13.84
	35	204.4	6.97	243	8.26	283.5	9.68	302.8	10.38	322.1	11.12	360.6	12.63	401.1	14.22
	40	204.4	7.15	243	8.47	283.5	9.91	302.8	10.66	322.1	11.4	360.6	12.97	401.1	14.58
	45	204.4	7.25	243	8.6	283.5	10.08	302.8	10.84	322.1	11.58	360.6	13.18	401.1	14.81
	50	204.4	7.38	243	8.75	283.5	10.24	302.8	11.01	322.1	11.78	360.6	13.4	401.1	15.06
	55	204.4	7.51	243	8.92	283.5	10.41	302.8	11.18	322.1	11.99	360.6	13.65	401.1	15.36
	60	204.4	7.72	243	9.22	283.5	10.79	302.8	11.61	322.1	12.42	360.6	14.17	401.1	15.96
	65	204.4	7.85	243	9.39	283.5	10.97	302.8	11.82	322.1	12.67	360.6	14.42	401.1	16.21
	70	204.4	8.06	243	9.64	283.5	11.31	302.8	12.16	322.1	13.06	360.6	14.93	401.1	17.24
	75	204.4	8.19	243	9.81	283.5	11.52	302.8	12.59	322.1	13.65	360.6	15.96	401.1	18.25
	80	204.4	8.83	243	10.84	283.5	13.1	302.8	14.29	322.1	15.49	360.6	17.65	401.1	20.24
	85	204.4	9.39	243	11.52	283.5	13.95	302.8	15.23	322.1	16.68	360.6	18.8	401.1	21.1
	90	204.4	10.54	243	13.01	283.5	15.79	302.8	17.24	322.1	18.86	360.6	20.96	401.1	22.9
	95	204.4	11.14	243	13.82	283.5	16.81	302.8	18.39	322.1	20.01	360.6	22.04	401.1	23.59
	100	204.4	12.03	243	14.93	283.5	18.13	302.8	19.84	322.1	20.61	360.6	23.07	401.1	24.26
	105	204.4	13.64	243	17.02	283.5	20	302.8	21.17	322.1	22.39	360.6	24.3	401.1	25.68
	110	204.4	15.36	243	19.29	283.5	21.16	302.8	22.44	322.1	24.28	360.6	25.31	389.6	27.61
	115	204.4	16.51	243	20.57	283.5	21.89	302.8	23.72	322.1	24.99	360.6	26.08	367.2	29.4
	118	204.4	17.53	243.0	21.85	283.5	23.25	302.8	25.14	293.1	24.99	302.4	22.13	299.8	24.94
	122	204.4	18.91	243.0	23.66	253.0	22.20	241.9	20.67	234.7	18.92	242.8	16.77	241.3	18.95
60	23	175.5	5.61	208.3	6.6	243	7.68	258.4	8.26	275.8	8.83	310.5	10.02	343.3	11.25
	25	175.5	5.68	208.3	6.67	243	7.77	258.4	8.34	275.8	8.94	310.5	10.14	343.3	11.37
	30	175.5	5.82	208.3	6.85	243	7.97	258.4	8.57	275.8	9.17	310.5	10.4	343.3	11.68
	35	175.5	5.96	208.3	7.03	243	8.17	258.4	8.79	275.8	9.4	310.5	10.66	343.3	11.98
	40	175.5	6.12	208.3	7.21	243	8.39	258.4	9.02	275.8	9.65	310.5	10.95	343.3	12.29
	45	175.5	6.17	208.3	7.28	243	8.45	258.4	9.09	275.8	9.74	310.5	11.03	343.3	12.38
	50	175.5	6.23	208.3	7.34	243	8.53	258.4	9.17	275.8	9.81	310.5	11.14	343.3	12.5
	55	175.5	6.31	208.3	7.47	243	8.7	258.4	9.34	275.8	9.98	310.5	11.35	343.3	12.71
	60	175.5	6.53	208.3	7.72	243	9	258.4	9.69	275.8	10.37	310.5	11.73	343.3	13.23
	65	175.5	6.61	208.3	7.85	243	9.17	258.4	9.86	275.8	10.54	310.5	11.99	343.3	13.48
	70	175.5	6.78	208.3	8.06	243	9.43	258.4	10.11	275.8	10.84	310.5	12.33	343.3	13.99
	75	175.5	6.91	208.3	8.19	243	9.6	258.4	10.33	275.8	11.18	310.5	13.06	343.3	14.91
	80	175.5	7.34	208.3	8.96	243	10.75	258.4	11.73	275.8	12.71	310.5	14.63	343.3	16.84
	85	175.5	7.81	208.3	9.51	243	11.43	258.4	12.5	275.8	13.61	310.5	15.4	343.3	17.38
	90	175.5	8.75	208.3	10.75	243	12.93	258.4	14.12	275.8	15.29	310.5	17.21	343.3	18.96
	95	175.5	9.26	208.3	11.39	243	13.74	258.4	15.06	275.8	16.19	310.5	18	343.3	19.97
	100	175.5	9.94	208.3	12.25	243	14.81	258.4	16.21	275.8	16.91	310.5	19.08	343.3	20.82
	105	175.5	11.3	208.3	13.95	243	16.34	258.4	17.3	275.8	18.4	310.5	20.28	343.3	22.7
	110	175.5	12.71	208.3	15.83	243	17.63	258.4	18.35	275.8	19.88	310.5	21.68	343.3	24.76
	115	175.5	13.61	208.3	16.9	243	18.32	258.4	19.41	275.8	20.59	310.5	22.92	343.3	26.46
	118	175.5	14.41	208.3	17.92	243.0	19.45	258.4	20.62	275.8	21.91	302.4	22.13	299.8	24.94
	122	175.5	15.53	208.3	19.38	243.0	21.08	241.4	20.92	233.6	19.37	242.8	16.77	241.3	18.95
50	23	145.8	4.9	173.6	5.68	202.5	6.51	216	6.93	229.5	7.4	258.4	8.29	285.4	9.22
	25	145.8	4.95	173.6	5.76	202.5	6.56	216	7	229.5	7.5	258.4	8.37	285.4	9.31
	30	145.8	5.09	173.6	5.9	202.5	6.77	216	7.2	229.5	7.69	258.4	8.61	285.4	9.58
	35	145.8	5.22	173.6	6.05	202.5	6.94	216	7.4	229.5	7.9	258.4	8.85	285.4	9.83
	40	145.8	5.36	173.6	6.21	202.5	7.12	216	7.58	229.5	8.09	258.4	9.06	285.4	10.09
	45	145.8	5.44	173.6	6.3	202.5	7.22	216	7.68	229.5	8.2	258.4	9.19	285.4	10.23
	50	145.8	5.51	173.6	6.39	202.5	7.33	216	7.8	229.5	8.32	258.4	9.32	285.4	10.38
	55	145.8	5.63	173.6	6.51	202.5	7.45	216	7.91	229.5	8.44	258.4	9.5	285.4	10.55
	60	145.8	5.75	173.6	6.68	202.5	7.68	216	8.21	229.5	8.74	258.4	9.79	285.4	10.96
	65	145.8	5.8	173.6	6.8	202.5	7.8	216	8.32	229.5	8.85	258.4	9.97	285.4	11.14
	70	145.8	5.98	173.6	6.92	202.5	7.97	216	8.56	229.5	9.09	258.4	10.26	285.4	11.49
	75	145.8	6.04	173.6	7.04	202.5	8.15	216	8.68	229.5	9.26	258.4	10.44	285.4	11.73
	80	145.8	6.21	173.6	7.45	202.5	8.74	216	9.44	229.5	10.14	258.4	11.67	285.4	13.31
	85	145.8	6.62	173.6	7.86	202.5	9.26	216	10.03	229.5	10.79	258.4	12.43	285.4	14.19
	90	145.8	7.39	173.6	8.79	202.5	10.44	216	11.26	229.5	12.14	258.4	14.01	285.4	16.06
	95	145.8	7.8	173.6	9.32	202.5	11.02	216	11.96	229.5	12.9	258.4	14.89	285.4	17.06
	100	145.8	8.21	173.6	9.85	202.5	11.67	216	12.66	229.5	13.66	258.4	15.83	285.4	18.12
	105	145.8	8.97	173.6	10.87	202.5	12.9	216	13.98	229.5	15.11	258.4	17.54	285.4	20.15
	110	145.8	9.91	173.6	12.02	202.5	14.3	216	15.54	229.5	16.83	258.4	19.58	285.4	22.51
	115	145.8	10.61	173.6	12.9	202.5	15.36	216	16.71	229.5	18.12	258.4	21.11	285.4	24.27
	118	145.8	11.46	173.6	13.99	202.5	16.69	216.0	18.17	229.5	19.72	258.4	22.13	285.4	24.94
	122	145.8	12.65	173.6	15.46	202.5	18.46	216.0	20.17	229.5	19.37	242.8	16.77	241.3	18.95

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80ºF dry bulb (DB) and 67ºF wet bulb (WB), and outdoor ambient conditions of 95ºF dry bulb (DB) and 75ºF wet bulb (WB).

Product Data

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN072BT3, ARUN072DT3 / ARUB072BT3, ARUB072DT3

72,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	60.4	4.98	60.4	5.09	60.4	5.21	60.2	5.32	60.1	5.41	60.1	5.52	60.1	5.64	59.7	5.78
	0	-0.4	61.9	5.08	61.9	5.18	61.9	5.28	61.7	5.38	61.6	5.48	61.6	5.56	61.2	5.7	61.2	5.85
	5	4.5	68	5.29	68	5.39	68	5.5	67.8	5.6	67.6	5.66	67.6	5.82	67.6	5.98	67.2	6.14
	10	9	71.4	5.38	71	5.49	70.6	5.59	70.6	5.7	70.6	5.74	70.3	5.93	70.3	6.12	70.3	6.27
	15	14	75.5	5.54	75.5	5.66	75.5	5.78	75.4	5.9	75.2	5.95	75.2	6.12	75.2	6.3	74.8	6.45
	20	19	79.5	5.7	79.2	5.81	78.8	5.92	78.8	6.03	78.8	6.09	78.4	6.25	78.4	6.45	78.4	6.34
	25	23	82.2	5.79	82.2	5.92	82.2	6.04	82	6.16	81.8	6.23	81.8	6.4	81.8	6.4	81.5	6.26
	30	28	85.7	5.9	85.4	6.02	85	6.14	84.8	6.27	84.7	6.35	84.7	6.45	84.7	6.31	84.3	6.15
	35	32	89.8	6.06	89.5	6.17	89.1	6.29	89.1	6.4	89.1	6.45	89.1	6.32	88.8	6.15	88.8	5.99
	40	36	94.1	6.24	93.8	6.32	93.4	6.39	93.4	6.45	93.4	6.35	93.4	6.14	93.1	5.99	93.1	5.82
	45	41	96.6	6.34	96.6	6.41	96.6	6.45	96.4	6.35	96.2	6.19	96.2	6.01	95.9	5.86	95.9	5.68
	47	43	99.3	6.41	99.3	6.45	99.3	6.33	99.1	6.2	99	6.06	99	5.88	99	5.71	97.9	5.54
	50	46	102	6.45	102	6.34	102	6.21	101.9	6.09	101.7	5.91	101.7	5.73	101.7	5.57	97.5	5.36
	55	51	105.4	6.35	105.1	6.21	104.7	6.07	104.5	5.92	104.4	5.78	104.4	5.59	104.4	5.39	97.2	5.21
	60	56	104.7	6.01	104.7	5.88	104.7	5.75	104.5	5.62	104.4	5.38	101.8	5.21	98.2	5.04	91.4	4.84
120	-4	-4.4	60.9	5.39	60.6	5.45	60.2	5.51	60	5.56	59.8	5.67	59.8	5.78	59.8	5.86	59.4	5.98
	0	-0.4	61.7	5.44	61.7	5.51	61.7	5.57	61.5	5.63	61.3	5.74	61.3	5.83	61.3	5.91	60.9	6.04
	5	4.5	68.5	5.63	68.1	5.7	67.7	5.77	67.5	5.85	67.4	5.92	67.4	6.04	67.4	6.12	67	6.3
	10	9	70.7	5.73	70.7	5.8	70.7	5.87	70.6	5.94	70.4	6	70.4	6.13	70.4	6.23	70	6.42
	15	14	75.6	5.92	75.3	6	74.9	6.05	74.9	6.11	74.9	6.21	74.6	6.31	74.6	6.42	74.2	6.39
	20	19	78.9	6.04	78.9	6.11	78.9	6.18	78.7	6.24	78.6	6.37	78.6	6.42	78.6	6.37	78.2	6.3
	25	23	82.3	6.13	81.9	6.2	81.6	6.27	81.6	6.35	81.6	6.42	81.2	6.34	81.2	6.28	81.2	6.21
	30	28	85.1	6.24	84.8	6.3	84.4	6.36	84.4	6.42	84.4	6.33	84.4	6.25	84.1	6.18	84.1	6.12
	35	32	89.2	6.32	89.2	6.37	89.2	6.42	89.1	6.29	88.9	6.19	88.9	6.09	88.9	6.02	88.5	5.95
	40	36	93.5	6.39	93.5	6.42	93.5	6.29	93.4	6.14	93.2	6.02	93.2	5.93	93.2	5.87	91.1	5.79
	45	41	96.3	6.42	96.3	6.31	96.3	6.19	96.1	6.04	96	5.92	96	5.81	96	5.75	90.7	5.67
	47	43	99.1	6.32	99.1	6.2	99.1	6.08	98.9	5.92	98.7	5.8	98.7	5.69	97.3	5.64	90.4	5.54
	50	46	99.4	6.21	99	6.09	98.7	5.97	98.7	5.82	98.7	5.68	97	5.56	94	5.52	87.3	5.41
	55	51	100.7	6.11	100.4	5.99	100	5.86	99.4	5.7	98.7	5.56	95.4	5.43	92.5	5.37	85.9	5.26
	60	56	106.5	5.84	105.7	5.72	105	5.6	101.8	5.38	98.7	5.18	95.4	5.02	92.5	4.94	85.9	4.8
110	-4	-4.4	60.2	5.82	59.9	5.86	59.5	5.9	59.5	5.95	59.5	6.02	59.5	6.09	59.1	6.2	59.1	6.3
	0	-0.4	61.7	5.87	61.4	5.92	61	5.96	61	6.01	61	6.09	60.6	6.17	60.6	6.26	60.6	6.36
	5	4.5	67.8	6.05	67.4	6.11	67	6.17	67	6.21	67	6.28	67	6.35	66.7	6.49	66.7	6.45
	10	9	70.4	6.14	70.4	6.2	70.4	6.26	70.2	6.31	70.1	6.37	70.1	6.49	70.1	6.45	69.7	6.34
	15	14	75.3	6.27	75	6.35	74.6	6.42	74.6	6.49	74.6	6.45	74.6	6.4	74.2	6.31	74.2	6.18
	20	19	78.6	6.39	78.6	6.49	78.6	6.41	78.4	6.36	78.2	6.3	78.2	6.25	78.2	6.16	77.9	6.03
	25	23	82	6.49	81.6	6.37	81.2	6.29	81.2	6.24	81.2	6.18	81.2	6.12	80.9	6.05	80.9	5.92
	30	28	84.5	6.37	84.5	6.25	84.5	6.18	84.3	6.11	84.1	6.06	84.1	6	84.1	5.93	83.7	5.8
	35	32	88.6	6.17	88.6	6.09	88.6	6.01	88.6	5.93	88.6	5.89	88.2	5.83	88.2	5.74	84	5.61
	40	36	88.9	6	88.9	5.92	88.9	5.84	88.7	5.77	88.6	5.72	88.6	5.64	85.6	5.56	79.9	5.45
	45	41	89.5	5.9	89.2	5.82	88.9	5.74	88.7	5.66	88.6	5.59	85.7	5.53	82.8	5.46	77.3	5.31
	47	43	92.4	5.77	92.1	5.7	91.8	5.62	90.2	5.54	88.6	5.48	85.7	5.41	82.8	5.34	77.3	5.17
	50	46	95.7	5.64	95	5.56	94.4	5.49	91.5	5.42	88.6	5.32	85.7	5.26	82.8	5.17	77.3	5.03
	55	51	101.5	5.52	97.9	5.44	94.4	5.35	91.5	5.27	88.6	5.17	85.7	5.11	82.8	5.04	77.3	4.89
	60	56	105.3	5.12	99.8	5.07	94.4	5.03	91.5	4.98	88.6	4.88	85.7	4.82	82.8	4.73	77.3	4.61

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN072BT3, ARUN072DT3 / ARUB072BT3, ARUB072DT3 Heating Capacity

72,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	59.6	6.12	59.6	6.16	59.6	6.21	59.4	6.26	59.2	6.31	59.2	6.42	59.2	6.47	58.9	6.46
	0	-0.4	61.5	6.16	61.1	6.22	60.7	6.27	60.7	6.33	60.7	6.38	60.7	6.46	60.4	6.51	60.4	6.38
	5	4.5	67.1	6.31	67.1	6.36	67.1	6.41	67	6.46	66.8	6.51	66.8	6.41	66.8	6.24	66.4	6.1
	10	9	70.5	6.36	70.2	6.41	69.8	6.46	69.8	6.51	69.8	6.39	69.8	6.31	69.5	6.13	69.5	5.96
	15	14	74.7	6.48	74.7	6.51	74.7	6.48	74.5	6.32	74.4	6.19	74.4	6.08	74.4	5.9	74	5.73
	20	19	78.7	6.46	78.3	6.39	78	6.31	78	6.16	78	6.02	77.6	5.91	77.6	5.74	77.6	5.57
	25	23	81.4	6.36	81.4	6.28	81.4	6.21	81.2	6.06	81	5.89	81	5.79	81	5.56	77.4	5.41
	30	28	81.3	6.23	81.3	6.15	81.3	6.07	81.2	5.92	81	5.77	81	5.65	80	5.43	74.5	5.3
	35	32	82.3	6.03	82	5.95	81.6	5.87	81.3	5.71	81	5.58	78.4	5.43	75.8	5.24	70.6	5.09
	40	36	86.8	5.86	86.5	5.78	86.2	5.69	83.6	5.52	81	5.41	78.4	5.26	75.8	5.03	70.6	4.88
	45	41	92.7	5.73	89.4	5.64	86.2	5.55	83.6	5.4	81	5.3	78.4	5.09	75.8	4.89	70.6	4.73
	47	**43**	96.6	5.61	91.4	5.53	86.2	5.44	83.6	5.27	**81**	**5.18**	78.4	4.96	75.8	4.74	70.6	4.56
	50	46	96.6	5.49	91.4	5.4	86.2	5.3	83.6	5.17	81	5.05	78.4	4.85	75.8	4.6	70.6	4.45
	55	51	96.6	5.36	91.4	5.27	86.2	5.18	83.6	5.02	81	4.89	78.4	4.71	75.8	4.47	70.6	4.31
	60	56	96.6	5.12	91.4	5.03	86.2	4.93	83.6	4.74	81	4.58	78.4	4.4	75.8	4.21	70.6	4.04
90	-4	-4.4	59.4	5.81	59.4	5.88	59.4	5.95	59.2	6.04	59	6.09	59	6.15	59	6.12	59	5.91
	0	-0.4	60.9	5.85	60.9	5.92	60.9	5.99	60.7	6.08	60.5	6.13	60.5	6.18	60.5	6.05	60.1	5.83
	5	4.5	66.9	6.01	66.9	6.07	66.9	6.13	66.7	6.17	66.5	6.11	66.5	5.94	66.5	5.8	66.5	5.55
	10	9	70.3	6.08	69.9	6.13	69.6	6.18	69.6	6.07	69.6	5.96	69.6	5.81	69.6	5.64	69.2	5.4
	15	14	74.5	6.17	74.5	6.12	74.5	6	74.3	5.89	74.1	5.69	74.1	5.58	74.1	5.43	70.5	5.22
	20	19	74.8	6.03	74.5	5.95	74.1	5.81	74.1	5.68	74.1	5.53	74.1	5.43	71.7	5.28	66.6	5.08
	25	23	75.1	5.91	75.1	5.81	75.1	5.65	74.6	5.52	74.1	5.4	71.8	5.3	69.5	5.14	64.6	4.91
	30	28	78.7	5.79	78.4	5.68	78.1	5.55	76.1	5.41	74.1	5.28	71.8	5.17	69.5	5.02	64.6	4.8
	35	32	87.3	5.6	83	5.52	78.7	5.38	76.4	5.23	74.1	5.11	71.8	4.97	69.5	4.8	64.6	4.6
	40	36	88.6	5.44	83.7	5.34	78.7	5.21	76.4	5.09	74.1	4.94	71.8	4.8	69.5	4.66	64.6	4.4
	45	41	88.6	5.33	83.7	5.22	78.7	5.09	76.4	4.97	74.1	4.81	71.8	4.66	69.5	4.51	64.6	4.28
	47	43	88.6	5.21	83.7	5.1	78.7	4.97	76.4	4.82	74.1	4.69	71.8	4.53	69.5	4.4	64.6	4.15
	50	46	88.6	5.11	83.7	5	78.7	4.85	76.4	4.66	74.1	4.54	71.8	4.4	69.5	4.26	64.6	3.99
	55	51	88.6	4.99	83.7	4.87	78.7	4.69	76.4	4.52	74.1	4.39	71.8	4.25	69.5	4.1	64.6	3.87
	60	56	88.6	4.67	83.7	4.54	78.7	4.38	76.4	4.22	74.1	4.08	71.8	3.94	69.5	3.8	64.6	3.61
80	-4	-4.4	58.8	5.16	58.8	5.21	58.8	5.26	58.8	5.31	58.8	5.39	58.8	5.45	58.4	5.46	58.4	5.31
	0	-0.4	60.3	5.21	60.3	5.26	60.3	5.31	60.3	5.36	60.3	5.43	59.9	5.48	59.9	5.4	59.9	5.24
	5	4.5	66.3	5.36	66.3	5.4	66.3	5.44	66.3	5.48	66.3	5.41	66.3	5.26	65.9	5.14	63.4	4.98
	10	9	66.6	5.42	66.6	5.45	66.6	5.48	66.5	5.38	66.3	5.26	66.3	5.11	64.9	5.02	60.4	4.84
	15	14	68.3	5.48	68.3	5.42	68.3	5.3	67.3	5.16	66.3	5.01	64.3	4.92	62	4.81	57.7	4.65
	20	19	73.9	5.41	72.3	5.27	70.6	5.12	68.5	4.97	66.3	4.82	64.3	4.73	62	4.65	57.7	4.49
	25	23	79.2	5.29	74.9	5.15	70.6	5.01	68.5	4.84	66.3	4.7	64.3	4.6	62	4.51	57.7	4.35
	30	28	79.2	5.17	74.9	5.03	70.6	4.87	68.5	4.72	66.3	4.58	64.3	4.47	62	4.38	57.7	4.2
	35	32	79.2	4.96	74.9	4.82	70.6	4.68	68.5	4.54	66.3	4.41	64.3	4.29	62	4.17	57.7	4
	40	36	79.2	4.74	74.9	4.62	70.6	4.5	68.5	4.36	66.3	4.22	64.3	4.09	62	3.97	57.7	3.8
	45	41	79.2	4.6	74.9	4.48	70.6	4.36	68.5	4.25	66.3	4.11	64.3	3.95	62	3.83	57.7	3.65
	47	43	79.2	4.47	74.9	4.35	70.6	4.24	68.5	4.11	66.3	3.99	64.3	3.83	62	3.7	57.7	3.53
	50	46	79.2	4.34	74.9	4.22	70.6	4.1	68.5	3.96	66.3	3.84	64.3	3.67	62	3.55	57.7	3.38
	55	51	79.2	4.19	74.9	4.08	70.6	3.96	68.5	3.84	66.3	3.69	64.3	3.54	62	3.44	57.7	3.24
	60	56	79.2	3.88	74.9	3.78	70.6	3.68	68.5	3.53	66.3	3.38	64.3	3.25	62	3.15	57.7	2.96

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN072BT3, ARUN072DT3 / ARUB072BT3, ARUB072DT3

72,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	59	5	58.7	5.06	58.4	5.11	57.4	5.19	56.4	5.3	54.5	5.34	52.9	5.33	49.3	5.25
	0	-0.4	63.2	5.13	61.6	5.17	60	5.21	58.2	5.29	56.4	5.34	54.5	5.35	52.9	5.31	49.3	5.2
	5	4.5	67.1	5.31	63.5	5.33	60	5.34	58.2	5.35	56.4	5.23	54.5	5.12	52.9	5.03	49.3	4.83
	10	9	67.1	5.32	63.5	5.34	60	5.35	58.2	5.16	56.4	5	54.5	4.87	52.9	4.74	49.3	4.47
	15	14	67.1	5.35	63.5	5.27	60	5.05	58.2	4.81	56.4	4.56	54.5	4.37	52.9	4.26	49.3	4.09
	20	19	67.1	5.07	63.5	4.9	60	4.71	58.2	4.51	56.4	4.36	54.5	4.19	52.9	4.08	49.3	3.91
	25	23	67.1	4.84	63.5	4.7	60	4.52	58.2	4.34	56.4	4.21	54.5	4.04	52.9	3.93	49.3	3.79
	30	28	67.1	4.66	63.5	4.53	60	4.37	58.2	4.22	56.4	4.08	54.5	3.95	52.9	3.84	49.3	3.67
	35	32	67.1	4.4	63.5	4.29	60	4.16	58.2	3.99	56.4	3.89	54.5	3.75	52.9	3.66	49.3	3.43
	40	36	67.1	4.25	63.5	4.11	60	3.98	58.2	3.81	56.4	3.69	54.5	3.55	52.9	3.44	49.3	3.24
	45	41	67.1	4.14	63.5	3.99	60	3.85	58.2	3.68	56.4	3.55	54.5	3.41	52.9	3.29	49.3	3.13
	47	43	67.1	3.99	63.5	3.84	60	3.69	58.2	3.54	56.4	3.42	54.5	3.27	52.9	3.17	49.3	2.98
	50	46	67.1	3.87	63.5	3.72	60	3.57	58.2	3.4	56.4	3.29	54.5	3.15	52.9	3.05	49.3	2.84
	55	51	67.1	3.77	63.5	3.61	60	3.44	58.2	3.26	56.4	3.14	54.5	3	52.9	2.9	49.3	2.69
	60	56	67.1	3.47	63.5	3.32	60	3.16	58.2	2.96	56.4	2.83	54.5	2.7	52.9	2.6	49.3	2.43
60	-4	-4.4	50.6	4.91	50.6	4.99	50.6	5.08	49.5	5.17	48.4	5.26	46.8	5.19	45.2	5.17	42.2	4.79
	0	-0.4	52.9	4.92	52.2	5.01	51.6	5.11	50	5.22	48.4	5.29	46.8	5.17	45.2	5.02	42.2	4.62
	5	4.5	57.4	5.11	54.5	5.23	51.6	5.34	50	5.11	48.4	4.73	46.8	4.55	45.2	4.38	42.2	4.03
	10	9	57.4	5.23	54.5	5.35	51.6	5.14	50	4.79	48.4	4.44	46.8	4.29	45.2	4.12	42.2	3.79
	15	14	57.4	5.19	54.5	4.95	51.6	4.73	50	4.41	48.4	4.11	46.8	3.97	45.2	3.82	42.2	3.52
	20	19	57.4	4.93	54.5	4.73	51.6	4.53	50	4.23	48.4	3.93	46.8	3.78	45.2	3.66	42.2	3.36
	25	23	57.4	4.72	54.5	4.52	51.6	4.32	50	4.03	48.4	3.75	46.8	3.6	45.2	3.48	42.2	3.21
	30	28	57.4	4.49	54.5	4.31	51.6	4.13	50	3.85	48.4	3.61	46.8	3.46	45.2	3.34	42.2	3.1
	35	32	57.4	4.19	54.5	4.03	51.6	3.87	50	3.62	48.4	3.39	46.8	3.26	45.2	3.14	42.2	2.9
	40	36	57.4	3.89	54.5	3.76	51.6	3.63	50	3.42	48.4	3.18	46.8	3.06	45.2	2.95	42.2	2.75
	45	41	57.4	3.73	54.5	3.6	51.6	3.46	50	3.25	48.4	3.04	46.8	2.92	45.2	2.83	42.2	2.63
	47	43	57.4	3.55	54.5	3.41	51.6	3.27	50	3.07	48.4	2.92	46.8	2.81	45.2	2.69	42.2	2.51
	50	46	57.4	3.43	54.5	3.3	51.6	3.17	50	2.98	48.4	2.8	46.8	2.72	45.2	2.6	42.2	2.44
	55	51	57.4	3.27	54.5	3.15	51.6	3.04	50	2.86	48.4	2.69	46.8	2.6	45.2	2.51	42.2	2.34
	60	56	57.4	3.08	54.5	2.97	51.6	2.86	50	2.69	48.4	2.51	46.8	2.42	45.2	2.34	42.2	2.19
50	-4	-4.4	48.1	4.96	45.5	4.92	42.9	4.88	41.6	4.71	40.3	4.54	39	4.37	37.7	4.2	35.2	3.86
	0	-0.4	48.1	4.89	45.5	4.88	42.9	4.71	41.6	4.55	40.3	4.39	39	4.22	37.7	4.06	35.2	3.74
	5	4.5	48.1	4.4	45.5	4.27	42.9	4.13	41.6	3.98	40.3	3.84	39	3.72	37.7	3.57	35.2	3.3
	10	9	48.1	4.12	45.5	4.01	42.9	3.89	41.6	3.75	40.3	3.62	39	3.49	37.7	3.37	35.2	3.11
	15	14	48.1	3.79	45.5	3.68	42.9	3.57	41.6	3.45	40.3	3.33	39	3.23	37.7	3.11	35.2	2.87
	20	19	48.1	3.56	45.5	3.47	42.9	3.37	41.6	3.25	40.3	3.13	39	3.04	37.7	2.92	35.2	2.72
	25	23	48.1	3.39	45.5	3.3	42.9	3.21	41.6	3.1	40.3	2.99	39	2.89	37.7	2.79	35.2	2.6
	30	28	48.1	3.27	45.5	3.16	42.9	3.06	41.6	2.96	40.3	2.87	39	2.77	37.7	2.67	35.2	2.48
	35	32	48.1	3.01	45.5	2.95	42.9	2.89	41.6	2.79	40.3	2.69	39	2.6	37.7	2.52	35.2	2.33
	40	36	48.1	2.85	45.5	2.79	42.9	2.72	41.6	2.64	40.3	2.55	39	2.45	37.7	2.38	35.2	2.21
	45	41	48.1	2.77	45.5	2.7	42.9	2.62	41.6	2.54	40.3	2.45	39	2.38	37.7	2.31	35.2	2.14
	47	43	48.1	2.64	45.5	2.57	42.9	2.51	41.6	2.44	40.3	2.38	39	2.26	37.7	2.19	35.2	2.04
	50	46	48.1	2.57	45.5	2.51	42.9	2.45	41.6	2.38	40.3	2.31	39	2.24	37.7	2.16	35.2	2.01
	55	51	48.1	2.49	45.5	2.43	42.9	2.38	41.6	2.31	40.3	2.24	39	2.16	37.7	2.09	35.2	1.96
	60	56	48.1	2.35	45.5	2.3	42.9	2.24	41.6	2.18	40.3	2.11	39	2.04	37.7	1.96	35.2	1.84

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN096BT3, ARUN096DT3 / ARUB096BT3, ARUB096DT3 Heating Capacity

96,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	80.6	6.59	80.6	6.74	80.6	6.89	80.3	7.04	80.1	7.17	80.1	7.31	80.1	7.46	79.6	7.65
	0	-0.4	82.6	6.73	82.6	6.86	82.6	6.99	82.3	7.13	82.1	7.26	82.1	7.37	81.6	7.54	81.6	7.75
	5	4.5	90.6	7	90.6	7.14	90.6	7.28	90.4	7.42	90.1	7.5	90.1	7.71	90.1	7.92	89.6	8.13
	10	9	95.1	7.12	94.7	7.26	94.2	7.41	94.2	7.55	94.2	7.61	93.7	7.85	93.7	8.1	93.7	8.3
	15	14	100.7	7.34	100.7	7.5	100.7	7.65	100.5	7.81	100.2	7.88	100.2	8.1	100.2	8.35	99.7	8.54
	20	19	106	7.55	105.5	7.7	105.1	7.84	105.1	7.99	105.1	8.06	104.6	8.28	104.6	8.54	104.6	8.4
	25	23	109.6	7.67	109.6	7.83	109.6	8	109.3	8.16	109.1	8.25	109.1	8.47	109.1	8.47	108.6	8.29
	30	28	114.3	7.81	113.8	7.97	113.4	8.13	113.1	8.3	112.9	8.4	112.9	8.54	112.9	8.36	112.4	8.15
	35	32	119.8	8.03	119.3	8.18	118.9	8.32	118.9	8.47	118.9	8.54	118.9	8.38	118.4	8.14	118.4	7.93
	40	36	125.5	8.26	125	8.37	124.6	8.46	124.6	8.54	124.6	8.4	124.6	8.13	124.1	7.94	124.1	7.7
	45	41	128.7	8.39	128.7	8.49	128.7	8.54	128.5	8.4	128.3	8.2	128.3	7.96	127.8	7.76	127.8	7.52
	47	43	132.4	8.49	132.4	8.54	132.4	8.38	132.2	8.21	131.9	8.03	131.9	7.79	131.9	7.56	130.6	7.33
	50	46	136	8.54	136	8.4	136	8.23	135.8	8.06	135.6	7.83	135.6	7.59	135.6	7.38	130.1	7.1
	55	51	140.5	8.41	140.1	8.22	139.6	8.04	139.4	7.85	139.2	7.65	139.2	7.4	139.2	7.14	129.5	6.9
	60	56	139.6	7.96	139.6	7.79	139.6	7.62	139.4	7.44	139.2	7.13	135.7	6.9	131	6.67	121.9	6.41
120	-4	-4.4	81.2	7.14	80.7	7.22	80.2	7.29	80	7.37	79.7	7.51	79.7	7.65	79.7	7.77	79.2	7.92
	0	-0.4	82.2	7.21	82.2	7.29	82.2	7.37	82	7.46	81.8	7.6	81.8	7.72	81.8	7.82	81.3	7.99
	5	4.5	91.3	7.45	90.8	7.55	90.3	7.65	90	7.74	89.8	7.84	89.8	8	89.8	8.1	89.3	8.34
	10	9	94.3	7.59	94.3	7.68	94.3	7.77	94.1	7.86	93.8	7.95	93.8	8.12	93.8	8.25	93.4	8.51
	15	14	100.9	7.84	100.4	7.94	99.9	8.02	99.9	8.1	99.9	8.23	99.4	8.36	99.4	8.51	98.9	8.46
	20	19	105.2	8	105.2	8.09	105.2	8.18	105	8.27	104.7	8.44	104.7	8.51	104.7	8.43	104.3	8.34
	25	23	109.7	8.12	109.2	8.2	108.8	8.3	108.8	8.4	108.8	8.51	108.3	8.39	108.3	8.31	108.3	8.22
	30	28	113.5	8.26	113	8.34	112.6	8.42	112.6	8.51	112.6	8.38	112.6	8.27	112.1	8.18	112.1	8.1
	35	32	119	8.37	119	8.44	119	8.51	118.8	8.33	118.5	8.2	118.5	8.06	118.5	7.97	118.1	7.88
	40	36	124.7	8.47	124.7	8.51	124.7	8.33	124.5	8.13	124.2	7.97	124.2	7.85	124.2	7.77	121.4	7.67
	45	41	128.4	8.51	128.4	8.36	128.4	8.19	128.2	7.99	127.9	7.83	127.9	7.7	127.9	7.62	121	7.51
	47	43	132.1	8.37	132.1	8.21	132.1	8.06	131.8	7.84	131.6	7.68	131.6	7.54	129.8	7.47	120.5	7.33
	50	46	132.5	8.23	132.1	8.07	131.6	7.91	131.6	7.71	131.6	7.52	129.4	7.36	125.4	7.31	116.4	7.17
	55	51	134.2	8.09	133.8	7.93	133.4	7.77	132.5	7.55	131.6	7.36	127.2	7.19	123.3	7.12	114.5	6.97
	60	56	141.9	7.73	140.9	7.57	139.9	7.41	135.8	7.12	131.6	6.86	127.2	6.64	123.3	6.55	114.5	6.36
110	-4	-4.4	80.3	7.71	79.8	7.76	79.3	7.82	79.3	7.88	79.3	7.97	79.3	8.07	78.8	8.2	78.8	8.34
	0	-0.4	82.3	7.77	81.8	7.83	81.3	7.9	81.3	7.96	81.3	8.06	80.8	8.18	80.8	8.3	80.8	8.43
	5	4.5	90.3	8.01	89.9	8.09	89.4	8.17	89.4	8.23	89.4	8.31	89.4	8.41	88.9	8.59	88.9	8.54
	10	9	93.9	8.13	93.9	8.21	93.9	8.29	93.7	8.36	93.4	8.44	93.4	8.59	93.4	8.54	92.9	8.4
	15	14	100.4	8.3	99.9	8.4	99.5	8.51	99.5	8.6	99.5	8.55	99.5	8.48	99	8.36	99	8.19
	20	19	104.8	8.47	104.8	8.6	104.8	8.49	104.5	8.42	104.3	8.35	104.3	8.28	104.3	8.16	103.8	7.98
	25	23	109.3	8.6	108.8	8.43	108.3	8.33	108.3	8.26	108.3	8.19	108.3	8.11	107.9	8.01	107.9	7.84
	30	28	112.6	8.44	112.6	8.28	112.6	8.18	112.4	8.09	112.1	8.03	112.1	7.94	112.1	7.85	111.7	7.68
	35	32	118.1	8.17	118.1	8.06	118.1	7.96	118.1	7.86	118.1	7.8	117.6	7.72	117.6	7.6	112	7.43
	40	36	118.5	7.94	118.5	7.84	118.5	7.74	118.3	7.64	118.1	7.57	118.1	7.47	114.1	7.36	106.6	7.22
	45	41	119.4	7.81	119	7.7	118.5	7.6	118.3	7.49	118.1	7.41	114.2	7.32	110.4	7.23	103.1	7.04
	47	43	123.3	7.65	122.8	7.55	122.4	7.45	120.2	7.33	118.1	7.25	114.2	7.16	110.4	7.07	103.1	6.85
	50	46	127.5	7.47	126.7	7.37	125.8	7.27	122	7.17	118.1	7.05	114.2	6.97	110.4	6.85	103.1	6.66
	55	51	135.3	7.31	130.6	7.2	125.8	7.09	122	6.97	118.1	6.85	114.2	6.77	110.4	6.67	103.1	6.47
	60	56	140.4	6.78	133.1	6.72	125.8	6.66	122	6.6	118.1	6.46	114.2	6.39	110.4	6.27	103.1	6.1

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN096BT3, ARUN096DT3 / ARUB096BT3, ARUB096DT3

96,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	79.5	8.1	79.5	8.16	79.5	8.23	79.2	8.29	79	8.36	79	8.5	79	8.57	78.5	8.55
	0	-0.4	82	8.16	81.5	8.23	81	8.31	81	8.39	81	8.45	81	8.56	80.5	8.62	80.5	8.45
	5	4.5	89.5	8.36	89.5	8.42	89.5	8.49	89.3	8.56	89	8.62	89	8.49	89	8.27	88.6	8.08
	10	9	94	8.42	93.6	8.49	93.1	8.56	93.1	8.62	93.1	8.46	93.1	8.36	92.6	8.11	92.6	7.89
	15	14	99.6	8.58	99.6	8.62	99.6	8.58	99.4	8.37	99.1	8.2	99.1	8.05	99.1	7.81	98.7	7.59
	20	19	104.9	8.56	104.5	8.46	104	8.36	104	8.16	104	7.97	103.5	7.83	103.5	7.6	103.5	7.38
	25	23	108.5	8.42	108.5	8.32	108.5	8.22	108.2	8.03	108	7.8	108	7.67	108	7.36	103.3	7.17
	30	28	108.5	8.25	108.5	8.14	108.5	8.03	108.2	7.84	108	7.64	108	7.48	106.6	7.2	99.3	7.01
	35	32	109.7	7.98	109.3	7.88	108.9	7.77	108.4	7.56	108	7.4	104.5	7.19	101.1	6.93	94.2	6.73
	40	36	115.8	7.76	115.3	7.65	114.9	7.54	111.5	7.3	108	7.17	104.5	6.96	101.1	6.66	94.2	6.46
	45	41	123.6	7.59	119.2	7.47	114.9	7.35	111.5	7.15	108	7.02	104.5	6.74	101.1	6.47	94.2	6.27
	47	**43**	128.7	7.43	121.8	7.32	114.9	7.21	111.5	6.98	**108**	**6.86**	104.5	6.56	101.1	6.28	94.2	6.04
	50	46	128.7	7.27	121.8	7.14	114.9	7.02	111.5	6.85	108	6.69	104.5	6.42	101.1	6.09	94.2	5.89
	55	51	128.7	7.1	121.8	6.98	114.9	6.85	111.5	6.65	108	6.48	104.5	6.23	101.1	5.92	94.2	5.71
	60	56	128.7	6.78	121.8	6.66	114.9	6.53	111.5	6.28	108	6.07	104.5	5.83	101.1	5.58	94.2	5.35
90	-4	-4.4	79.2	7.69	79.2	7.79	79.2	7.88	78.9	7.99	78.7	8.06	78.7	8.15	78.7	8.11	78.7	7.83
	0	-0.4	81.2	7.74	81.2	7.84	81.2	7.94	80.9	8.05	80.7	8.12	80.7	8.18	80.7	8.01	80.2	7.72
	5	4.5	89.2	7.96	89.2	8.04	89.2	8.12	89	8.18	88.7	8.09	88.7	7.87	88.7	7.67	88.7	7.35
	10	9	93.7	8.05	93.2	8.12	92.8	8.18	92.8	8.04	92.8	7.89	92.8	7.7	92.8	7.47	92.3	7.15
	15	14	99.3	8.18	99.3	8.1	99.3	7.94	99.1	7.8	98.8	7.54	98.8	7.39	98.8	7.19	94	6.91
	20	19	99.7	7.99	99.3	7.88	98.8	7.7	98.8	7.52	98.8	7.32	98.8	7.19	95.6	7	88.8	6.72
	25	23	100.1	7.82	100.1	7.69	100.1	7.49	99.5	7.31	98.8	7.15	95.7	7.02	92.7	6.81	86.1	6.51
	30	28	105	7.67	104.5	7.53	104.1	7.34	101.5	7.16	98.8	6.99	95.7	6.85	92.7	6.64	86.1	6.35
	35	32	116.4	7.42	110.7	7.31	105	7.13	101.9	6.92	98.8	6.76	95.7	6.59	92.7	6.36	86.1	6.09
	40	36	118.1	7.2	111.6	7.07	105	6.9	101.9	6.74	98.8	6.54	95.7	6.36	92.7	6.17	86.1	5.82
	45	41	118.1	7.05	111.6	6.91	105	6.74	101.9	6.58	98.8	6.37	95.7	6.17	92.7	5.97	86.1	5.66
	47	43	118.1	6.9	111.6	6.76	105	6.59	101.9	6.38	98.8	6.21	95.7	6	92.7	5.82	86.1	5.49
	50	46	118.1	6.76	111.6	6.62	105	6.42	101.9	6.18	98.8	6.01	95.7	5.82	92.7	5.64	86.1	5.28
	55	51	118.1	6.61	111.6	6.44	105	6.22	101.9	5.99	98.8	5.81	95.7	5.62	92.7	5.43	86.1	5.13
	60	56	118.1	6.19	111.6	6.01	105	5.8	101.9	5.59	98.8	5.41	95.7	5.22	92.7	5.03	86.1	4.78
80	-4	-4.4	78.3	6.84	78.3	6.9	78.3	6.97	78.3	7.03	78.3	7.14	78.3	7.22	77.8	7.22	77.8	7.03
	0	-0.4	80.3	6.9	80.3	6.96	80.3	7.03	80.3	7.1	80.3	7.19	79.9	7.25	79.9	7.16	79.9	6.94
	5	4.5	88.4	7.1	88.4	7.15	88.4	7.21	88.4	7.25	88.4	7.17	88.4	6.97	87.9	6.81	84.5	6.6
	10	9	88.9	7.18	88.9	7.22	88.9	7.25	88.6	7.12	88.4	6.96	88.4	6.77	86.5	6.64	80.5	6.4
	15	14	91.1	7.25	91.1	7.18	91.1	7.02	89.7	6.83	88.4	6.63	85.7	6.51	82.7	6.37	76.9	6.16
	20	19	98.6	7.17	96.4	6.98	94.1	6.78	91.3	6.59	88.4	6.39	85.7	6.27	82.7	6.16	76.9	5.95
	25	23	105.6	7.01	99.9	6.82	94.1	6.63	91.3	6.41	88.4	6.23	85.7	6.1	82.7	5.98	76.9	5.77
	30	28	105.6	6.85	99.9	6.67	94.1	6.46	91.3	6.25	88.4	6.06	85.7	5.92	82.7	5.8	76.9	5.56
	35	32	105.6	6.57	99.9	6.39	94.1	6.2	91.3	6.02	88.4	5.84	85.7	5.68	82.7	5.53	76.9	5.3
	40	36	105.6	6.28	99.9	6.12	94.1	5.96	91.3	5.77	88.4	5.59	85.7	5.41	82.7	5.26	76.9	5.03
	45	41	105.6	6.09	99.9	5.93	94.1	5.78	91.3	5.63	88.4	5.45	85.7	5.23	82.7	5.07	76.9	4.83
	47	43	105.6	5.91	99.9	5.76	94.1	5.61	91.3	5.45	88.4	5.29	85.7	5.07	82.7	4.9	76.9	4.68
	50	46	105.6	5.74	99.9	5.58	94.1	5.42	91.3	5.25	88.4	5.08	85.7	4.87	82.7	4.7	76.9	4.48
	55	51	105.6	5.55	99.9	5.4	94.1	5.25	91.3	5.08	88.4	4.88	85.7	4.69	82.7	4.56	76.9	4.29
	60	56	105.6	5.14	99.9	5.01	94.1	4.87	91.3	4.68	88.4	4.48	85.7	4.3	82.7	4.17	76.9	3.92

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping
0 ft. level difference between outdoor and indoor units. .

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN096BT3, ARUN096DT3 / ARUB096BT3, ARUB096DT3 — Heating Capacity

96,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	78.7	6.62	78.3	6.7	77.8	6.77	76.5	6.87	75.3	7.02	72.7	7.07	70.5	7.06	65.8	6.95
	0	-0.4	84.3	6.8	82.1	6.85	80	6.9	77.6	7	75.3	7.07	72.7	7.08	70.5	7.03	65.8	6.89
	5	4.5	89.4	7.03	84.7	7.05	80	7.07	77.6	7.08	75.3	6.92	72.7	6.78	70.5	6.66	65.8	6.4
	10	9	89.4	7.05	84.7	7.07	80	7.08	77.6	6.84	75.3	6.62	72.7	6.45	70.5	6.28	65.8	5.92
	15	14	89.4	7.08	84.7	6.98	80	6.69	77.6	6.37	75.3	6.04	72.7	5.79	70.5	5.64	65.8	5.42
	20	19	89.4	6.71	84.7	6.49	80	6.23	77.6	5.97	75.3	5.77	72.7	5.55	70.5	5.41	65.8	5.18
	25	23	89.4	6.41	84.7	6.22	80	5.99	77.6	5.75	75.3	5.58	72.7	5.36	70.5	5.21	65.8	5.01
	30	28	89.4	6.17	84.7	6	80	5.79	77.6	5.59	75.3	5.41	72.7	5.23	70.5	5.09	65.8	4.85
	35	32	89.4	5.83	84.7	5.68	80	5.51	77.6	5.28	75.3	5.15	72.7	4.96	70.5	4.84	65.8	4.55
	40	36	89.4	5.62	84.7	5.45	80	5.27	77.6	5.05	75.3	4.88	72.7	4.7	70.5	4.56	65.8	4.29
	45	41	89.4	5.48	84.7	5.29	80	5.1	77.6	4.87	75.3	4.71	72.7	4.51	70.5	4.36	65.8	4.14
	47	43	89.4	5.28	84.7	5.08	80	4.89	77.6	4.69	75.3	4.53	72.7	4.33	70.5	4.2	65.8	3.95
	50	46	89.4	5.12	84.7	4.93	80	4.73	77.6	4.5	75.3	4.36	72.7	4.18	70.5	4.03	65.8	3.76
	55	51	89.4	4.99	84.7	4.77	80	4.56	77.6	4.32	75.3	4.16	72.7	3.97	70.5	3.84	65.8	3.57
	60	56	89.4	4.59	84.7	4.39	80	4.19	77.6	3.92	75.3	3.75	72.7	3.57	70.5	3.44	65.8	3.22
60	-4	-4.4	67.5	6.5	67.5	6.61	67.5	6.73	66	6.84	64.5	6.96	62.4	6.88	60.2	6.84	56.3	6.34
	0	-0.4	70.5	6.52	69.7	6.64	68.8	6.77	66.7	6.92	64.5	7	62.4	6.84	60.2	6.65	56.3	6.11
	5	4.5	76.5	6.77	72.7	6.93	68.8	7.08	66.7	6.77	64.5	6.26	62.4	6.03	60.2	5.8	56.3	5.34
	10	9	76.5	6.93	72.7	7.08	68.8	6.8	66.7	6.34	64.5	5.88	62.4	5.69	60.2	5.45	56.3	5.02
	15	14	76.5	6.87	72.7	6.56	68.8	6.27	66.7	5.84	64.5	5.45	62.4	5.26	60.2	5.06	56.3	4.67
	20	19	76.5	6.52	72.7	6.27	68.8	6	66.7	5.6	64.5	5.2	62.4	5.01	60.2	4.85	56.3	4.45
	25	23	76.5	6.26	72.7	5.99	68.8	5.72	66.7	5.33	64.5	4.97	62.4	4.77	60.2	4.61	56.3	4.25
	30	28	76.5	5.95	72.7	5.71	68.8	5.46	66.7	5.1	64.5	4.78	62.4	4.59	60.2	4.43	56.3	4.11
	35	32	76.5	5.55	72.7	5.34	68.8	5.12	66.7	4.8	64.5	4.48	62.4	4.32	60.2	4.16	56.3	3.84
	40	36	76.5	5.16	72.7	4.98	68.8	4.81	66.7	4.53	64.5	4.21	62.4	4.06	60.2	3.91	56.3	3.64
	45	41	76.5	4.94	72.7	4.76	68.8	4.58	66.7	4.3	64.5	4.03	62.4	3.86	60.2	3.75	56.3	3.48
	47	43	76.5	4.7	72.7	4.52	68.8	4.33	66.7	4.06	64.5	3.87	62.4	3.72	60.2	3.57	56.3	3.32
	50	46	76.5	4.54	72.7	4.37	68.8	4.2	66.7	3.95	64.5	3.7	62.4	3.6	60.2	3.44	56.3	3.23
	55	51	76.5	4.32	72.7	4.17	68.8	4.02	66.7	3.78	64.5	3.56	62.4	3.44	60.2	3.32	56.3	3.09
	60	56	76.5	4.08	72.7	3.93	68.8	3.78	66.7	3.56	64.5	3.32	62.4	3.21	60.2	3.09	56.3	2.9
50	-4	-4.4	64.1	6.56	60.6	6.52	57.2	6.46	55.5	6.24	53.8	6.02	52	5.79	50.3	5.56	46.9	5.11
	0	-0.4	64.1	6.48	60.6	6.46	57.2	6.24	55.5	6.03	53.8	5.82	52	5.59	50.3	5.37	46.9	4.95
	5	4.5	64.1	5.83	60.6	5.65	57.2	5.47	55.5	5.28	53.8	5.08	52	4.92	50.3	4.73	46.9	4.37
	10	9	64.1	5.46	60.6	5.31	57.2	5.15	55.5	4.97	53.8	4.79	52	4.63	50.3	4.47	46.9	4.12
	15	14	64.1	5.02	60.6	4.88	57.2	4.73	55.5	4.57	53.8	4.41	52	4.28	50.3	4.12	46.9	3.79
	20	19	64.1	4.71	60.6	4.59	57.2	4.47	55.5	4.31	53.8	4.14	52	4.02	50.3	3.86	46.9	3.61
	25	23	64.1	4.49	60.6	4.37	57.2	4.25	55.5	4.1	53.8	3.96	52	3.82	50.3	3.7	46.9	3.44
	30	28	64.1	4.33	60.6	4.19	57.2	4.05	55.5	3.92	53.8	3.79	52	3.66	50.3	3.54	46.9	3.28
	35	32	64.1	3.99	60.6	3.91	57.2	3.82	55.5	3.69	53.8	3.57	52	3.44	50.3	3.34	46.9	3.08
	40	36	64.1	3.77	60.6	3.69	57.2	3.61	55.5	3.49	53.8	3.38	52	3.25	50.3	3.15	46.9	2.92
	45	41	64.1	3.66	60.6	3.57	57.2	3.47	55.5	3.36	53.8	3.25	52	3.15	50.3	3.06	46.9	2.83
	47	43	64.1	3.49	60.6	3.41	57.2	3.32	55.5	3.24	53.8	3.15	52	2.99	50.3	2.9	46.9	2.71
	50	46	64.1	3.4	60.6	3.32	57.2	3.25	55.5	3.15	53.8	3.06	52	2.96	50.3	2.87	46.9	2.67
	55	51	64.1	3.29	60.6	3.22	57.2	3.15	55.5	3.06	53.8	2.96	52	2.87	50.3	2.76	46.9	2.6
	60	56	64.1	3.12	60.6	3.04	57.2	2.96	55.5	2.88	53.8	2.8	52	2.71	50.3	2.6	46.9	2.44

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN121BT3, ARUN121DT3 / ARUB121BT3, ARUB121DT3

121,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	100.7	8.33	100.7	8.52	100.7	8.71	100.4	8.9	100.1	9.06	100.1	9.23	100.1	9.43	99.5	9.67
	0	-0.4	103.2	8.5	103.2	8.67	103.2	8.84	102.9	9.01	102.6	9.17	102.6	9.31	102	9.54	102	9.8
	5	4.5	113.3	8.85	113.3	9.03	113.3	9.2	113	9.38	112.7	9.48	112.7	9.75	112.7	10.01	112.1	10.28
	10	9	118.9	9	118.3	9.18	117.7	9.36	117.7	9.55	117.7	9.62	117.1	9.93	117.1	10.24	117.1	10.49
	15	14	125.9	9.28	125.9	9.48	125.9	9.67	125.6	9.87	125.3	9.96	125.3	10.24	125.3	10.55	124.7	10.79
	20	19	132.5	9.54	131.9	9.73	131.3	9.91	131.3	10.1	131.3	10.19	130.7	10.46	130.7	10.79	130.7	10.62
	25	23	137	9.7	137	9.9	137	10.1	136.7	10.31	136.4	10.42	136.4	10.71	136.4	10.71	135.8	10.47
	30	28	142.9	9.87	142.3	10.07	141.7	10.28	141.4	10.49	141.1	10.62	141.1	10.79	141.1	10.56	140.5	10.3
	35	32	149.7	10.15	149.2	10.33	148.6	10.52	148.6	10.71	148.6	10.79	148.6	10.59	148	10.29	148	10.03
	40	36	156.9	10.44	156.3	10.58	155.7	10.69	155.7	10.79	155.7	10.62	155.7	10.27	155.1	10.03	155.1	9.73
	45	41	160.9	10.6	160.9	10.73	160.9	10.79	160.6	10.62	160.3	10.36	160.3	10.07	159.8	9.8	159.8	9.5
	47	43	165.5	10.73	165.5	10.8	165.5	10.59	165.2	10.38	164.9	10.14	164.9	9.85	164.9	9.56	163.2	9.27
	50	46	170	10.79	170	10.61	170	10.4	169.8	10.19	169.5	9.89	169.5	9.59	169.5	9.32	162.6	8.98
	55	51	175.7	10.63	175.1	10.39	174.5	10.16	174.2	9.92	173.9	9.67	173.9	9.35	173.9	9.02	161.9	8.72
	60	56	174.5	10.07	174.5	9.85	174.5	9.63	174.2	9.41	173.9	9.01	169.6	8.72	163.7	8.43	152.4	8.11
120	-4	-4.4	101.6	9.02	100.9	9.12	100.3	9.22	100	9.31	99.7	9.49	99.7	9.67	99.7	9.81	99.1	10.01
	0	-0.4	102.8	9.11	102.8	9.22	102.8	9.32	102.5	9.42	102.2	9.61	102.2	9.75	102.2	9.89	101.6	10.1
	5	4.5	114.1	9.42	113.5	9.54	112.9	9.66	112.6	9.79	112.3	9.91	112.3	10.11	112.3	10.24	111.6	10.54
	10	9	117.9	9.59	117.9	9.7	117.9	9.82	117.6	9.94	117.3	10.05	117.3	10.27	117.3	10.42	116.7	10.75
	15	14	126.1	9.91	125.5	10.03	124.9	10.13	124.9	10.23	124.9	10.4	124.3	10.57	124.3	10.75	123.7	10.69
	20	19	131.5	10.11	131.5	10.22	131.5	10.34	131.2	10.45	130.9	10.66	130.9	10.75	130.9	10.66	130.3	10.54
	25	23	137.1	10.27	136.5	10.37	135.9	10.5	135.9	10.62	135.9	10.75	135.4	10.61	135.4	10.5	135.4	10.39
	30	28	141.9	10.44	141.3	10.54	140.7	10.65	140.7	10.75	140.7	10.59	140.7	10.46	140.1	10.34	140.1	10.24
	35	32	148.7	10.58	148.7	10.67	148.7	10.75	148.5	10.53	148.2	10.36	148.2	10.19	148.2	10.07	147.6	9.96
	40	36	155.9	10.7	155.9	10.75	155.9	10.53	155.6	10.28	155.3	10.07	155.3	9.93	155.3	9.83	151.8	9.69
	45	41	160.5	10.75	160.5	10.57	160.5	10.35	160.2	10.1	159.9	9.9	159.9	9.73	159.9	9.63	151.2	9.49
	47	43	165.1	10.58	165.1	10.38	165.1	10.18	164.8	9.91	164.5	9.71	164.5	9.52	162.2	9.43	150.7	9.27
	50	46	165.6	10.4	165.1	10.2	164.5	10	164.5	9.74	164.5	9.5	161.7	9.3	156.7	9.24	145.6	9.06
	55	51	167.8	10.22	167.3	10.02	166.7	9.81	165.6	9.54	164.5	9.3	159	9.09	154.1	8.99	143.1	8.81
	60	56	177.4	9.77	176.2	9.57	174.9	9.37	169.7	9	164.5	8.67	159	8.4	154.1	8.27	143.1	8.04
110	-4	-4.4	100.4	9.74	99.8	9.81	99.1	9.88	99.1	9.95	99.1	10.07	99.1	10.2	98.5	10.37	98.5	10.54
	0	-0.4	102.9	9.82	102.3	9.9	101.6	9.98	101.6	10.06	101.6	10.19	101	10.33	101	10.49	101	10.65
	5	4.5	112.9	10.13	112.3	10.22	111.7	10.32	111.7	10.4	111.7	10.51	111.7	10.64	111.1	10.86	111.1	10.8
	10	9	117.4	10.27	117.4	10.38	117.4	10.48	117.1	10.57	116.8	10.66	116.8	10.86	116.8	10.79	116.2	10.62
	15	14	125.5	10.49	124.9	10.62	124.3	10.75	124.3	10.86	124.3	10.8	124.3	10.72	123.7	10.57	123.7	10.35
	20	19	131	10.7	131	10.86	131	10.72	130.7	10.64	130.4	10.55	130.4	10.46	130.4	10.32	129.8	10.09
	25	23	136.6	10.86	136	10.66	135.4	10.53	135.4	10.44	135.4	10.35	135.4	10.25	134.8	10.12	134.8	9.91
	30	28	140.8	10.66	140.8	10.46	140.8	10.34	140.5	10.22	140.2	10.14	140.2	10.04	140.2	9.92	139.6	9.7
	35	32	147.6	10.32	147.6	10.19	147.6	10.06	147.6	9.93	147.6	9.86	147	9.75	147	9.61	140	9.38
	40	36	148.2	10.04	148.2	9.91	148.2	9.78	147.9	9.65	147.6	9.57	147.6	9.44	142.6	9.31	133.2	9.12
	45	41	149.2	9.87	148.7	9.73	148.2	9.6	147.9	9.47	147.6	9.36	142.8	9.25	138	9.14	128.8	8.89
	47	43	154.1	9.66	153.5	9.54	153	9.41	150.3	9.27	147.6	9.16	142.8	9.05	138	8.94	128.8	8.66
	50	46	159.4	9.44	158.4	9.31	157.3	9.19	152.5	9.07	147.6	8.9	142.8	8.81	138	8.65	128.8	8.42
	55	51	169.1	9.24	163.2	9.1	157.3	8.96	152.5	8.81	147.6	8.65	142.8	8.56	138	8.43	128.8	8.18
	60	56	175.5	8.57	166.4	8.49	157.3	8.42	152.5	8.34	147.6	8.17	142.8	8.07	138	7.92	128.8	7.71

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN121BT3, ARUN121DT3 / ARUB121BT3, ARUB121DT3 Heating Capacity

121,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	99.4	10.24	99.4	10.32	99.4	10.4	99	10.47	98.7	10.57	98.7	10.74	98.7	10.83	98.1	10.81
	0	-0.4	102.5	10.31	101.9	10.41	101.2	10.5	101.2	10.6	101.2	10.68	101.2	10.82	100.6	10.9	100.6	10.68
	5	4.5	111.9	10.56	111.9	10.65	111.9	10.73	111.6	10.81	111.3	10.9	111.3	10.73	111.3	10.45	110.7	10.21
	10	9	117.6	10.64	117	10.73	116.4	10.81	116.4	10.9	116.4	10.69	116.4	10.56	115.8	10.25	115.8	9.97
	15	14	124.5	10.84	124.5	10.9	124.5	10.84	124.2	10.57	123.9	10.36	123.9	10.18	123.9	9.87	123.3	9.59
	20	19	131.2	10.82	130.6	10.69	130	10.57	130	10.32	130	10.07	129.4	9.89	129.4	9.61	129.4	9.33
	25	23	135.6	10.64	135.6	10.52	135.6	10.39	135.3	10.14	135	9.86	135	9.69	135	9.3	129.1	9.06
	30	28	135.6	10.42	135.6	10.29	135.6	10.15	135.3	9.91	135	9.65	135	9.46	133.3	9.09	124.2	8.86
	35	32	137.2	10.08	136.6	9.95	136.1	9.82	135.5	9.56	135	9.35	130.7	9.09	126.4	8.76	117.7	8.51
	40	36	144.7	9.81	144.2	9.67	143.6	9.53	139.3	9.23	135	9.06	130.7	8.8	126.4	8.41	117.7	8.16
	45	41	154.4	9.6	149	9.44	143.6	9.29	139.3	9.04	135	8.87	130.7	8.52	126.4	8.18	117.7	7.92
	47	**43**	160.9	9.4	152.3	9.25	143.6	9.11	139.3	8.82	**135**	**8.67**	130.7	8.29	126.4	7.94	117.7	7.63
	50	46	160.9	9.18	152.3	9.03	143.6	8.88	139.3	8.65	135	8.45	130.7	8.11	126.4	7.7	117.7	7.45
	55	51	160.9	8.98	152.3	8.82	143.6	8.66	139.3	8.4	135	8.18	130.7	7.88	126.4	7.48	117.7	7.22
	60	56	160.9	8.57	152.3	8.41	143.6	8.25	139.3	7.93	135	7.67	130.7	7.37	126.4	7.05	117.7	6.76
90	-4	-4.4	99	9.73	99	9.84	99	9.96	98.6	10.1	98.3	10.19	98.3	10.29	98.3	10.25	98.3	9.9
	0	-0.4	101.5	9.79	101.5	9.91	101.5	10.03	101.1	10.17	100.8	10.26	100.8	10.34	100.8	10.12	100.2	9.76
	5	4.5	111.5	10.05	111.5	10.16	111.5	10.27	111.2	10.33	110.9	10.23	110.9	9.95	110.9	9.7	110.9	9.29
	10	9	117.2	10.18	116.6	10.26	115.9	10.34	115.9	10.16	115.9	9.97	115.9	9.73	115.9	9.44	115.3	9.04
	15	14	124.1	10.33	124.1	10.24	124.1	10.04	123.8	9.86	123.5	9.53	123.5	9.34	123.5	9.09	117.5	8.74
	20	19	124.7	10.09	124.1	9.95	123.5	9.73	123.5	9.5	123.5	9.25	123.5	9.09	119.6	8.84	111.1	8.5
	25	23	125.2	9.88	125.2	9.72	125.2	9.46	124.3	9.24	123.5	9.04	119.7	8.87	115.8	8.6	107.6	8.22
	30	28	131.2	9.69	130.7	9.51	130.1	9.28	126.8	9.05	123.5	8.83	119.7	8.66	115.8	8.4	107.6	8.03
	35	32	145.5	9.38	138.3	9.23	131.2	9.01	127.4	8.75	123.5	8.55	119.7	8.32	115.8	8.04	107.6	7.7
	40	36	147.7	9.1	139.4	8.93	131.2	8.72	127.4	8.51	123.5	8.26	119.7	8.03	115.8	7.79	107.6	7.36
	45	41	147.7	8.91	139.4	8.74	131.2	8.51	127.4	8.32	123.5	8.05	119.7	7.8	115.8	7.54	107.6	7.16
	47	43	147.7	8.72	139.4	8.54	131.2	8.32	127.4	8.07	123.5	7.85	119.7	7.58	115.8	7.36	107.6	6.94
	50	46	147.7	8.55	139.4	8.37	131.2	8.11	127.4	7.81	123.5	7.6	119.7	7.36	115.8	7.13	107.6	6.68
	55	51	147.7	8.36	139.4	8.15	131.2	7.86	127.4	7.57	123.5	7.34	119.7	7.11	115.8	6.86	107.6	6.49
	60	56	147.7	7.82	139.4	7.59	131.2	7.33	127.4	7.06	123.5	6.83	119.7	6.59	115.8	6.35	107.6	6.04
80	-4	-4.4	97.9	8.64	97.9	8.73	97.9	8.81	97.9	8.89	97.9	9.02	97.9	9.12	97.3	9.13	97.3	8.89
	0	-0.4	100.4	8.72	100.4	8.8	100.4	8.89	100.4	8.97	100.4	9.09	99.8	9.16	99.8	9.04	99.8	8.77
	5	4.5	110.5	8.97	110.5	9.04	110.5	9.11	110.5	9.17	110.5	9.06	110.5	8.81	109.9	8.6	105.6	8.34
	10	9	111.1	9.08	111.1	9.12	111.1	9.17	110.8	9	110.5	8.8	110.5	8.55	108.2	8.4	100.7	8.09
	15	14	113.8	9.16	113.8	9.07	113.8	8.87	112.2	8.63	110.5	8.38	107.2	8.23	103.3	8.04	96.1	7.79
	20	19	123.2	9.06	120.4	8.82	117.7	8.57	114.1	8.32	110.5	8.07	107.2	7.92	103.3	7.79	96.1	7.52
	25	23	132	8.86	124.9	8.62	117.7	8.38	114.1	8.1	110.5	7.87	107.2	7.71	103.3	7.56	96.1	7.29
	30	28	132	8.65	124.9	8.43	117.7	8.16	114.1	7.89	110.5	7.66	107.2	7.48	103.3	7.33	96.1	7.03
	35	32	132	8.31	124.9	8.07	117.7	7.84	114.1	7.6	110.5	7.38	107.2	7.18	103.3	6.98	96.1	6.7
	40	36	132	7.93	124.9	7.73	117.7	7.53	114.1	7.29	110.5	7.07	107.2	6.84	103.3	6.64	96.1	6.36
	45	41	132	7.7	124.9	7.5	117.7	7.3	114.1	7.12	110.5	6.88	107.2	6.61	103.3	6.41	96.1	6.1
	47	43	132	7.47	124.9	7.28	117.7	7.09	114.1	6.88	110.5	6.68	107.2	6.4	103.3	6.19	96.1	5.91
	50	46	132	7.26	124.9	7.06	117.7	6.85	114.1	6.64	110.5	6.43	107.2	6.15	103.3	5.94	96.1	5.66
	55	51	132	7.01	124.9	6.82	117.7	6.63	114.1	6.42	110.5	6.17	107.2	5.92	103.3	5.76	96.1	5.43
	60	56	132	6.5	124.9	6.33	117.7	6.16	114.1	5.91	110.5	5.66	107.2	5.44	103.3	5.27	96.1	4.95

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN121BT3, ARUN121DT3 / ARUB121BT3, ARUB121DT3

121,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	-4	-4.4	98.4	8.36	97.8	8.46	97.3	8.56	95.7	8.68	94.1	8.87	90.8	8.93	88.2	8.93	82.2	8.79
	0	-0.4	105.4	8.59	102.7	8.65	100	8.72	97	8.85	94.1	8.94	90.8	8.95	88.2	8.88	82.2	8.71
	5	4.5	111.8	8.89	105.9	8.91	100	8.94	97	8.95	94.1	8.75	90.8	8.57	88.2	8.42	82.2	8.09
	10	9	111.8	8.91	105.9	8.93	100	8.95	97	8.64	94.1	8.37	90.8	8.15	88.2	7.94	82.2	7.49
	15	14	111.8	8.95	105.9	8.83	100	8.45	97	8.05	94.1	7.64	90.8	7.31	88.2	7.13	82.2	6.85
	20	19	111.8	8.48	105.9	8.2	100	7.88	97	7.55	94.1	7.29	90.8	7.02	88.2	6.83	82.2	6.55
	25	23	111.8	8.11	105.9	7.87	100	7.57	97	7.27	94.1	7.05	90.8	6.77	88.2	6.58	82.2	6.34
	30	28	111.8	7.8	105.9	7.58	100	7.32	97	7.06	94.1	6.83	90.8	6.61	88.2	6.43	82.2	6.13
	35	32	111.8	7.37	105.9	7.18	100	6.97	97	6.67	94.1	6.5	90.8	6.27	88.2	6.12	82.2	5.75
	40	36	111.8	7.11	105.9	6.88	100	6.66	97	6.38	94.1	6.17	90.8	5.94	88.2	5.76	82.2	5.42
	45	41	111.8	6.92	105.9	6.68	100	6.45	97	6.16	94.1	5.95	90.8	5.71	88.2	5.51	82.2	5.24
	47	43	111.8	6.67	105.9	6.42	100	6.17	97	5.93	94.1	5.73	90.8	5.47	88.2	5.3	82.2	4.99
	50	46	111.8	6.47	105.9	6.23	100	5.98	97	5.68	94.1	5.51	90.8	5.28	88.2	5.1	82.2	4.75
	55	51	111.8	6.3	105.9	6.03	100	5.77	97	5.46	94.1	5.25	90.8	5.02	88.2	4.85	82.2	4.51
	60	56	111.8	5.81	105.9	5.55	100	5.29	97	4.96	94.1	4.74	90.8	4.52	88.2	4.35	82.2	4.07
60	-4	-4.4	84.4	8.22	84.4	8.36	84.4	8.5	82.5	8.65	80.6	8.8	77.9	8.69	75.3	8.65	70.4	8.01
	0	-0.4	88.2	8.23	87.1	8.39	86	8.55	83.3	8.74	80.6	8.85	77.9	8.65	75.3	8.41	70.4	7.73
	5	4.5	95.7	8.56	90.8	8.76	86	8.95	83.3	8.55	80.6	7.92	77.9	7.62	75.3	7.33	70.4	6.74
	10	9	95.7	8.76	90.8	8.95	86	8.6	83.3	8.01	80.6	7.43	77.9	7.19	75.3	6.89	70.4	6.35
	15	14	95.7	8.68	90.8	8.29	86	7.92	83.3	7.38	80.6	6.88	77.9	6.64	75.3	6.39	70.4	5.9
	20	19	95.7	8.25	90.8	7.92	86	7.58	83.3	7.07	80.6	6.57	77.9	6.33	75.3	6.13	70.4	5.63
	25	23	95.7	7.91	90.8	7.57	86	7.23	83.3	6.74	80.6	6.28	77.9	6.03	75.3	5.83	70.4	5.37
	30	28	95.7	7.52	90.8	7.21	86	6.9	83.3	6.45	80.6	6.04	77.9	5.8	75.3	5.6	70.4	5.19
	35	32	95.7	7.01	90.8	6.74	86	6.47	83.3	6.06	80.6	5.67	77.9	5.46	75.3	5.26	70.4	4.85
	40	36	95.7	6.52	90.8	6.3	86	6.08	83.3	5.73	80.6	5.32	77.9	5.13	75.3	4.94	70.4	4.6
	45	41	95.7	6.25	90.8	6.02	86	5.79	83.3	5.43	80.6	5.09	77.9	4.88	75.3	4.74	70.4	4.39
	47	43	95.7	5.94	90.8	5.71	86	5.48	83.3	5.13	80.6	4.89	77.9	4.7	75.3	4.51	70.4	4.19
	50	46	95.7	5.73	90.8	5.52	86	5.31	83.3	4.99	80.6	4.68	77.9	4.56	75.3	4.35	70.4	4.08
	55	51	95.7	5.47	90.8	5.27	86	5.08	83.3	4.78	80.6	4.5	77.9	4.35	75.3	4.2	70.4	3.91
	60	56	95.7	5.15	90.8	4.97	86	4.78	83.3	4.5	80.6	4.2	77.9	4.05	75.3	3.91	70.4	3.66
50	-4	-4.4	80.1	8.3	75.8	8.24	71.5	8.17	69.3	7.89	67.2	7.61	65	7.32	62.9	7.03	58.6	6.46
	0	-0.4	80.1	8.18	75.8	8.16	71.5	7.88	69.3	7.62	67.2	7.35	65	7.07	62.9	6.79	58.6	6.25
	5	4.5	80.1	7.37	75.8	7.14	71.5	6.91	69.3	6.67	67.2	6.42	65	6.22	62.9	5.98	58.6	5.52
	10	9	80.1	6.9	75.8	6.7	71.5	6.51	69.3	6.28	67.2	6.05	65	5.85	62.9	5.64	58.6	5.2
	15	14	80.1	6.34	75.8	6.16	71.5	5.98	69.3	5.78	67.2	5.57	65	5.41	62.9	5.2	58.6	4.8
	20	19	80.1	5.96	75.8	5.8	71.5	5.64	69.3	5.44	67.2	5.24	65	5.08	62.9	4.88	58.6	4.56
	25	23	80.1	5.68	75.8	5.53	71.5	5.37	69.3	5.18	67.2	5	65	4.83	62.9	4.68	58.6	4.35
	30	28	80.1	5.47	75.8	5.3	71.5	5.12	69.3	4.96	67.2	4.8	65	4.63	62.9	4.47	58.6	4.15
	35	32	80.1	5.04	75.8	4.94	71.5	4.83	69.3	4.67	67.2	4.51	65	4.35	62.9	4.22	58.6	3.9
	40	36	80.1	4.76	75.8	4.66	71.5	4.56	69.3	4.41	67.2	4.27	65	4.1	62.9	3.98	58.6	3.7
	45	41	80.1	4.63	75.8	4.51	71.5	4.39	69.3	4.25	67.2	4.1	65	3.98	62.9	3.86	58.6	3.58
	47	43	80.1	4.42	75.8	4.31	71.5	4.2	69.3	4.09	67.2	3.98	65	3.79	62.9	3.67	58.6	3.42
	50	46	80.1	4.3	75.8	4.2	71.5	4.1	69.3	3.98	67.2	3.86	65	3.74	62.9	3.62	58.6	3.37
	55	51	80.1	4.16	75.8	4.07	71.5	3.98	69.3	3.86	67.2	3.74	65	3.62	62.9	3.49	58.6	3.29
	60	56	80.1	3.94	75.8	3.84	71.5	3.74	69.3	3.64	67.2	3.54	65	3.42	62.9	3.29	58.6	3.09

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN144BT3, ARUN144DT3 / ARUB144BT3, ARUB144DT3 Heating Capacity

144,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	120.9	10.04	120.9	10.26	120.9	10.49	120.5	10.72	120.1	10.91	120.1	11.12	120.1	11.36	119.4	11.65
	0	-0.4	123.9	10.24	123.9	10.44	123.9	10.65	123.5	10.85	123.1	11.05	123.1	11.21	122.4	11.48	122.4	11.79
	5	4.5	135.9	10.65	135.9	10.87	135.9	11.08	135.6	11.3	135.2	11.41	135.2	11.73	135.2	12.06	134.5	12.38
	10	9	142.7	10.84	142	11.06	141.3	11.27	141.3	11.49	141.3	11.58	140.5	11.95	140.5	12.33	140.5	12.63
	15	14	151.1	11.17	151.1	11.41	151.1	11.65	150.7	11.89	150.3	12	150.3	12.33	150.3	12.71	149.6	13
	20	19	159	11.49	158.3	11.71	157.6	11.94	157.6	12.16	157.6	12.27	156.9	12.6	156.9	13	156.9	12.79
	25	23	164.3	11.68	164.3	11.92	164.3	12.17	164	12.41	163.6	12.55	163.6	12.89	163.6	12.9	162.9	12.61
	30	28	171.5	11.88	170.8	12.13	170	12.38	169.7	12.63	169.3	12.79	169.3	13	169.3	12.72	168.6	12.4
	35	32	179.7	12.22	179	12.44	178.3	12.67	178.3	12.89	178.3	13	178.3	12.75	177.6	12.39	177.6	12.08
	40	36	188.3	12.57	187.6	12.74	186.9	12.87	186.9	13	186.9	12.79	186.9	12.37	186.2	12.08	186.2	11.72
	45	41	193.1	12.77	193.1	12.92	193.1	13	192.8	12.79	192.4	12.48	192.4	12.12	191.7	11.8	191.7	11.44
	47	43	198.6	12.92	198.6	13	198.6	12.75	198.3	12.5	197.9	12.21	197.9	11.86	197.9	11.51	195.8	11.16
	50	46	204	13	204	12.78	204	12.52	203.7	12.27	203.4	11.91	203.4	11.55	203.4	11.23	195.1	10.81
	55	51	210.8	12.8	210.1	12.52	209.4	12.23	209.1	11.94	208.7	11.64	208.7	11.26	208.7	10.86	194.3	10.5
	60	56	209.4	12.12	209.4	11.86	209.4	11.59	209.1	11.33	208.7	10.85	203.6	10.5	196.5	10.15	182.9	9.76
120	-4	-4.4	121.9	10.86	121.1	10.98	120.4	11.1	120	11.21	119.6	11.43	119.6	11.64	119.6	11.82	118.9	12.05
	0	-0.4	123.4	10.97	123.4	11.1	123.4	11.22	123	11.35	122.6	11.57	122.6	11.75	122.6	11.91	121.9	12.17
	5	4.5	136.9	11.34	136.2	11.49	135.4	11.64	135.1	11.79	134.7	11.93	134.7	12.17	134.7	12.33	134	12.69
	10	9	141.5	11.54	141.5	11.69	141.5	11.83	141.1	11.97	140.8	12.1	140.8	12.36	140.8	12.55	140	12.95
	15	14	151.3	11.93	150.6	12.08	149.8	12.2	149.8	12.32	149.8	12.52	149.1	12.73	149.1	12.95	148.4	12.87
	20	19	157.8	12.18	157.8	12.31	157.8	12.45	157.5	12.58	157.1	12.84	157.1	12.95	157.1	12.83	156.4	12.69
	25	23	164.6	12.36	163.8	12.49	163.1	12.64	163.1	12.79	163.1	12.95	162.4	12.77	162.4	12.65	162.4	12.51
	30	28	170.3	12.57	169.5	12.69	168.8	12.82	168.8	12.95	168.8	12.76	168.8	12.59	168.1	12.45	168.1	12.33
	35	32	178.5	12.74	178.5	12.85	178.5	12.95	178.1	12.68	177.8	12.48	177.8	12.27	177.8	12.13	177.1	11.99
	40	36	187.1	12.88	187.1	12.95	187.1	12.68	186.7	12.38	186.4	12.13	186.4	11.95	186.4	11.83	182.2	11.67
	45	41	192.6	12.95	192.6	12.72	192.6	12.47	192.3	12.16	191.9	11.92	191.9	11.71	191.9	11.59	181.5	11.43
	47	43	198.1	12.74	198.1	12.5	198.1	12.26	197.8	11.93	197.4	11.69	197.4	11.47	194.6	11.36	180.8	11.16
	50	46	198.8	12.52	198.1	12.28	197.4	12.04	197.4	11.73	197.4	11.44	194.1	11.2	188	11.12	174.7	10.9
	55	51	201.4	12.31	200.7	12.06	200.1	11.82	198.7	11.49	197.4	11.2	190.8	10.95	184.9	10.83	171.8	10.61
	60	56	212.9	11.76	211.4	11.52	209.9	11.28	203.7	10.84	197.4	10.44	190.8	10.11	184.9	9.96	171.8	9.68
110	-4	-4.4	120.5	11.73	119.7	11.81	119	11.9	119	11.99	119	12.13	119	12.28	118.2	12.49	118.2	12.69
	0	-0.4	123.5	11.83	122.7	11.92	122	12.02	122	12.11	122	12.27	121.2	12.44	121.2	12.63	121.2	12.82
	5	4.5	135.5	12.19	134.8	12.31	134.1	12.43	134.1	12.52	134.1	12.65	134.1	12.81	133.3	13.08	133.3	13
	10	9	140.8	12.37	140.8	12.5	140.8	12.62	140.5	12.72	140.1	12.84	140.1	13.08	140.1	13	139.4	12.79
	15	14	150.6	12.63	149.9	12.79	149.2	12.95	149.2	13.08	149.2	13.01	149.2	12.9	148.5	12.73	148.5	12.47
	20	19	157.2	12.88	157.2	13.08	157.2	12.91	156.8	12.81	156.5	12.71	156.5	12.6	156.5	12.42	155.7	12.15
	25	23	163.9	13.08	163.2	12.83	162.5	12.67	162.5	12.57	162.5	12.47	162.5	12.34	161.8	12.19	161.8	11.93
	30	28	168.9	12.84	168.9	12.6	168.9	12.45	168.5	12.31	168.2	12.22	168.2	12.09	168.2	11.94	167.5	11.68
	35	32	177.1	12.43	177.1	12.27	177.1	12.12	177.1	11.96	177.1	11.87	176.4	11.75	176.4	11.57	168	11.3
	40	36	177.8	12.09	177.8	11.93	177.8	11.78	177.5	11.62	177.1	11.53	177.1	11.37	171.2	11.21	159.8	10.98
	45	41	179.1	11.88	178.4	11.72	177.8	11.56	177.5	11.4	177.1	11.28	171.3	11.14	165.6	11.01	154.6	10.71
	47	43	184.9	11.64	184.2	11.48	183.6	11.33	180.4	11.16	177.1	11.04	171.3	10.9	165.6	10.76	154.6	10.43
	50	46	191.3	11.36	190	11.21	188.7	11.06	182.9	10.92	177.1	10.72	171.3	10.6	165.6	10.42	154.6	10.14
	55	51	202.9	11.12	195.8	10.95	188.7	10.78	182.9	10.61	177.1	10.42	171.3	10.31	165.6	10.15	154.6	9.85
	60	56	210.6	10.32	199.7	10.23	188.7	10.13	182.9	10.04	177.1	9.83	171.3	9.72	165.6	9.54	154.6	9.29

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN144BT3, ARUN144DT3 / ARUB144BT3, ARUB144DT3

144,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	119.2	12.33	119.2	12.42	119.2	12.52	118.9	12.61	118.5	12.73	118.5	12.93	118.5	13.04	117.7	13.02
	0	-0.4	123	12.42	122.2	12.53	121.5	12.65	121.5	12.76	121.5	12.86	121.5	13.03	120.8	13.12	120.8	12.86
	5	4.5	134.3	12.72	134.3	12.82	134.3	12.92	133.9	13.02	133.6	13.12	133.6	12.93	133.6	12.58	132.8	12.3
	10	9	141.1	12.82	140.3	12.92	139.6	13.02	139.6	13.12	139.6	12.87	139.6	12.72	138.9	12.34	138.9	12.01
	15	14	149.4	13.05	149.4	13.12	149.4	13.06	149.1	12.73	148.7	12.48	148.7	12.25	148.7	11.89	148	11.54
	20	19	157.4	13.03	156.7	12.88	156	12.72	156	12.42	156	12.13	155.3	11.91	155.3	11.57	155.3	11.23
	25	23	162.7	12.82	162.7	12.67	162.7	12.52	162.4	12.21	162	11.87	162	11.67	162	11.2	154.9	10.9
	30	28	162.7	12.55	162.7	12.39	162.7	12.23	162.3	11.93	162	11.62	162	11.39	159.9	10.95	149	10.67
	35	32	164.6	12.14	163.9	11.99	163.3	11.83	162.6	11.51	162	11.25	156.8	10.94	151.6	10.55	141.3	10.25
	40	36	173.7	11.81	173	11.64	172.4	11.47	167.2	11.12	162	10.91	156.8	10.6	151.6	10.13	141.3	9.83
	45	41	185.3	11.55	178.8	11.37	172.4	11.19	167.2	10.88	162	10.68	156.8	10.26	151.6	9.85	141.3	9.54
	47	**43**	193.1	11.31	182.7	11.14	172.4	10.97	167.2	10.62	**162**	**10.44**	**156.8**	9.99	151.6	9.56	141.3	9.19
	50	46	193.1	11.06	182.7	10.87	172.4	10.69	167.2	10.42	162	10.18	156.8	9.77	151.6	9.28	141.3	8.97
	55	51	193.1	10.81	182.7	10.62	172.4	10.43	167.2	10.11	162	9.86	156.8	9.49	151.6	9.01	141.3	8.7
	60	56	193.1	10.33	182.7	10.13	172.4	9.94	167.2	9.55	162	9.24	156.8	8.87	151.6	8.49	141.3	8.14
90	-4	-4.4	118.7	11.71	118.7	11.85	118.7	11.99	118.4	12.17	118	12.27	118	12.4	118	12.34	118	11.92
	0	-0.4	121.7	11.78	121.7	11.93	121.7	12.08	121.4	12.25	121	12.36	121	12.45	121	12.19	120.3	11.75
	5	4.5	133.8	12.11	133.8	12.24	133.8	12.36	133.4	12.44	133.1	12.32	133.1	11.98	133.1	11.68	133.1	11.19
	10	9	140.6	12.25	139.9	12.35	139.1	12.45	139.1	12.24	139.1	12.01	139.1	11.71	139.1	11.37	138.4	10.88
	15	14	148.9	12.44	148.9	12.33	148.9	12.09	148.6	11.88	148.2	11.47	148.2	11.25	148.2	10.95	141	10.52
	20	19	149.6	12.15	148.9	11.99	148.2	11.71	148.2	11.44	148.2	11.14	148.2	10.94	143.5	10.65	133.3	10.23
	25	23	150.2	11.9	150.2	11.7	150.2	11.4	149.2	11.13	148.2	10.89	143.6	10.68	139	10.36	129.1	9.9
	30	28	157.4	11.67	156.8	11.45	156.1	11.18	152.2	10.9	148.2	10.64	143.6	10.42	139	10.11	129.1	9.67
	35	32	174.6	11.3	166	11.12	157.4	10.84	152.8	10.54	148.2	10.29	143.6	10.02	139	9.68	129.1	9.27
	40	36	177.2	10.96	167.3	10.76	157.4	10.5	152.8	10.25	148.2	9.95	143.6	9.67	139	9.38	129.1	8.86
	45	41	177.2	10.73	167.3	10.52	157.4	10.25	152.8	10.01	148.2	9.7	143.6	9.4	139	9.08	129.1	8.62
	47	43	177.2	10.5	167.3	10.28	157.4	10.02	152.8	9.72	148.2	9.45	143.6	9.13	139	8.86	129.1	8.36
	50	46	177.2	10.29	167.3	10.07	157.4	9.77	152.8	9.4	148.2	9.15	143.6	8.86	139	8.58	129.1	8.04
	55	51	177.2	10.06	167.3	9.81	157.4	9.46	152.8	9.11	148.2	8.84	143.6	8.56	139	8.26	129.1	7.81
	60	56	177.2	9.42	167.3	9.15	157.4	8.82	152.8	8.5	148.2	8.23	143.6	7.94	139	7.65	129.1	7.27
80	-4	-4.4	117.5	10.41	117.5	10.51	117.5	10.6	117.5	10.7	117.5	10.86	117.5	10.98	116.8	10.99	116.8	10.7
	0	-0.4	120.5	10.5	120.5	10.59	120.5	10.7	120.5	10.81	120.5	10.95	119.8	11.04	119.8	10.89	119.8	10.56
	5	4.5	132.6	10.81	132.6	10.89	132.6	10.97	132.6	11.04	132.6	10.91	132.6	10.61	131.9	10.36	126.8	10.04
	10	9	133.3	10.93	133.3	10.98	133.3	11.04	132.9	10.83	132.6	10.6	132.6	10.3	129.8	10.11	120.8	9.75
	15	14	136.6	11.04	136.6	10.92	136.6	10.68	134.6	10.39	132.6	10.1	128.6	9.91	124	9.69	115.4	9.38
	20	19	147.8	10.91	144.5	10.62	141.2	10.32	136.9	10.02	132.6	9.72	128.6	9.54	124	9.38	115.4	9.06
	25	23	158.5	10.66	149.8	10.38	141.2	10.09	136.9	9.76	132.6	9.48	128.6	9.28	124	9.1	115.4	8.77
	30	28	158.5	10.42	149.8	10.15	141.2	9.82	136.9	9.5	132.6	9.23	128.6	9.01	124	8.82	115.4	8.46
	35	32	158.5	10	149.8	9.72	141.2	9.44	136.9	9.16	132.6	8.88	128.6	8.65	124	8.41	115.4	8.06
	40	36	158.5	9.55	149.8	9.31	141.2	9.07	136.9	8.78	132.6	8.51	128.6	8.24	124	8	115.4	7.66
	45	41	158.5	9.27	149.8	9.03	141.2	8.79	136.9	8.57	132.6	8.29	128.6	7.96	124	7.72	115.4	7.35
	47	43	158.5	9	149.8	8.77	141.2	8.54	136.9	8.29	132.6	8.05	128.6	7.71	124	7.46	115.4	7.12
	50	46	158.5	8.74	149.8	8.5	141.2	8.25	136.9	7.99	132.6	7.74	128.6	7.4	124	7.15	115.4	6.82
	55	51	158.5	8.45	149.8	8.22	141.2	7.99	136.9	7.73	132.6	7.43	128.6	7.13	124	6.93	115.4	6.53
	60	56	158.5	7.83	149.8	7.62	141.2	7.42	136.9	7.12	132.6	6.82	128.6	6.55	124	6.34	115.4	5.96

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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LG

ARUN144BT3, ARUN144DT3 / ARUB144BT3, ARUB144DT3 Heating Capacity

144,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	118	10.07	117.4	10.19	116.7	10.31	114.8	10.45	112.9	10.68	109	10.75	105.8	10.75	98.7	10.58
	0	-0.4	126.4	10.34	123.2	10.42	120	10.5	116.4	10.65	112.9	10.76	109	10.77	105.8	10.7	98.7	10.49
	5	4.5	134.2	10.7	127.1	10.73	120	10.77	116.4	10.78	112.9	10.53	109	10.32	105.8	10.14	98.7	9.74
	10	9	134.2	10.73	127.1	10.75	120	10.77	116.4	10.41	112.9	10.07	109	9.81	105.8	9.56	98.7	9.02
	15	14	134.2	10.77	127.1	10.63	120	10.18	116.4	9.7	112.9	9.2	109	8.81	105.8	8.59	98.7	8.25
	20	19	134.2	10.21	127.1	9.88	120	9.49	116.4	9.09	112.9	8.78	109	8.45	105.8	8.23	98.7	7.88
	25	23	134.2	9.76	127.1	9.47	120	9.11	116.4	8.76	112.9	8.49	109	8.15	105.8	7.93	98.7	7.63
	30	28	134.2	9.4	127.1	9.13	120	8.82	116.4	8.51	112.9	8.23	109	7.96	105.8	7.75	98.7	7.39
	35	32	134.2	8.87	127.1	8.64	120	8.39	116.4	8.04	112.9	7.83	109	7.55	105.8	7.37	98.7	6.92
	40	36	134.2	8.56	127.1	8.29	120	8.02	116.4	7.69	112.9	7.43	109	7.16	105.8	6.94	98.7	6.53
	45	41	134.2	8.34	127.1	8.05	120	7.76	116.4	7.41	112.9	7.16	109	6.87	105.8	6.64	98.7	6.31
	47	43	134.2	8.03	127.1	7.73	120	7.43	116.4	7.14	112.9	6.9	109	6.58	105.8	6.39	98.7	6
	50	46	134.2	7.79	127.1	7.5	120	7.2	116.4	6.84	112.9	6.63	109	6.36	105.8	6.14	98.7	5.72
	55	51	134.2	7.59	127.1	7.27	120	6.94	116.4	6.58	112.9	6.32	109	6.04	105.8	5.84	98.7	5.43
	60	56	134.2	6.99	127.1	6.68	120	6.37	116.4	5.97	112.9	5.71	109	5.44	105.8	5.24	98.7	4.91
60	-4	-4.4	101.3	9.89	101.3	10.07	101.3	10.24	99	10.41	96.8	10.6	93.5	10.47	90.3	10.41	84.5	9.65
	0	-0.4	105.8	9.92	104.5	10.11	103.2	10.3	100	10.53	96.8	10.66	93.5	10.41	90.3	10.12	84.5	9.3
	5	4.5	114.8	10.3	109	10.54	103.2	10.77	100	10.3	96.8	9.53	93.5	9.17	90.3	8.83	84.5	8.12
	10	9	114.8	10.54	109	10.77	103.2	10.35	100	9.65	96.8	8.94	93.5	8.65	90.3	8.29	84.5	7.65
	15	14	114.8	10.45	109	9.98	103.2	9.54	100	8.88	96.8	8.29	93.5	8	90.3	7.69	84.5	7.1
	20	19	114.8	9.93	109	9.54	103.2	9.13	100	8.52	96.8	7.91	93.5	7.62	90.3	7.38	84.5	6.77
	25	23	114.8	9.52	109	9.11	103.2	8.71	100	8.12	96.8	7.57	93.5	7.26	90.3	7.02	84.5	6.47
	30	28	114.8	9.06	109	8.69	103.2	8.31	100	7.77	96.8	7.28	93.5	6.98	90.3	6.74	84.5	6.25
	35	32	114.8	8.45	109	8.12	103.2	7.79	100	7.3	96.8	6.82	93.5	6.57	90.3	6.33	84.5	5.84
	40	36	114.8	7.85	109	7.58	103.2	7.32	100	6.9	96.8	6.41	93.5	6.18	90.3	5.95	84.5	5.54
	45	41	114.8	7.52	109	7.25	103.2	6.97	100	6.54	96.8	6.13	93.5	5.88	90.3	5.7	84.5	5.29
	47	43	114.8	7.15	109	6.87	103.2	6.6	100	6.18	96.8	5.89	93.5	5.66	90.3	5.43	84.5	5.05
	50	46	114.8	6.91	109	6.65	103.2	6.4	100	6.01	96.8	5.63	93.5	5.49	90.3	5.24	84.5	4.92
	55	51	114.8	6.58	109	6.35	103.2	6.12	100	5.76	96.8	5.41	93.5	5.24	90.3	5.05	84.5	4.71
	60	56	114.8	6.21	109	5.98	103.2	5.76	100	5.41	96.8	5.05	93.5	4.88	90.3	4.71	84.5	4.41
50	-4	-4.4	96.1	9.99	90.9	9.92	85.8	9.84	83.2	9.5	80.6	9.16	78	8.81	75.5	8.47	70.3	7.78
	0	-0.4	96.1	9.86	90.9	9.83	85.8	9.49	83.2	9.17	80.6	8.86	78	8.51	75.5	8.18	70.3	7.53
	5	4.5	96.1	8.87	90.9	8.6	85.8	8.32	83.2	8.03	80.6	7.73	78	7.49	75.5	7.2	70.3	6.65
	10	9	96.1	8.31	90.9	8.07	85.8	7.83	83.2	7.56	80.6	7.29	78	7.04	75.5	6.8	70.3	6.26
	15	14	96.1	7.63	90.9	7.42	85.8	7.2	83.2	6.96	80.6	6.71	78	6.51	75.5	6.26	70.3	5.77
	20	19	96.1	7.18	90.9	6.99	85.8	6.8	83.2	6.55	80.6	6.31	78	6.12	75.5	5.88	70.3	5.49
	25	23	96.1	6.84	90.9	6.66	85.8	6.47	83.2	6.24	80.6	6.02	78	5.82	75.5	5.63	70.3	5.24
	30	28	96.1	6.59	90.9	6.38	85.8	6.16	83.2	5.97	80.6	5.77	78	5.57	75.5	5.39	70.3	5
	35	32	96.1	6.07	90.9	5.95	85.8	5.82	83.2	5.62	80.6	5.43	78	5.24	75.5	5.08	70.3	4.69
	40	36	96.1	5.74	90.9	5.61	85.8	5.49	83.2	5.31	80.6	5.14	78	4.94	75.5	4.8	70.3	4.45
	45	41	96.1	5.58	90.9	5.43	85.8	5.28	83.2	5.11	80.6	4.94	78	4.8	75.5	4.65	70.3	4.31
	47	43	96.1	5.32	90.9	5.19	85.8	5.05	83.2	4.93	80.6	4.8	78	4.56	75.5	4.42	70.3	4.12
	50	46	96.1	5.17	90.9	5.06	85.8	4.94	83.2	4.8	80.6	4.65	78	4.51	75.5	4.36	70.3	4.06
	55	51	96.1	5.01	90.9	4.91	85.8	4.8	83.2	4.65	80.6	4.51	78	4.36	75.5	4.2	70.3	3.96
	60	56	96.1	4.74	90.9	4.63	85.8	4.51	83.2	4.38	80.6	4.26	78	4.12	75.5	3.96	70.3	3.72

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN168BT3, ARUN168DT3 / ARUB168BT3, ARUB168DT3

168,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	141	11.57	141	11.84	141	12.1	140.6	12.36	140.1	12.58	140.1	12.82	140.1	13.1	139.3	13.43
	0	-0.4	144.5	11.81	144.5	12.04	144.5	12.28	144.1	12.51	143.6	12.74	143.6	12.93	142.8	13.24	142.8	13.6
	5	4.5	158.6	12.29	158.6	12.53	158.6	12.78	158.2	13.03	157.7	13.16	157.7	13.53	157.7	13.91	156.9	14.28
	10	9	166.5	12.5	165.6	12.75	164.8	13	164.8	13.26	164.8	13.35	164	13.79	164	14.22	164	14.57
	15	14	176.2	12.89	176.2	13.16	176.2	13.43	175.8	13.71	175.4	13.83	175.4	14.22	175.4	14.65	174.6	14.99
	20	19	185.5	13.25	184.7	13.51	183.9	13.77	183.9	14.03	183.9	14.15	183	14.53	183	14.99	183	14.75
	25	23	191.7	13.47	191.7	13.75	191.7	14.03	191.3	14.32	190.9	14.47	190.9	14.87	190.9	14.87	190.1	14.55
	30	28	200	13.7	199.2	13.99	198.4	14.28	198	14.56	197.6	14.75	197.6	14.99	197.6	14.67	196.7	14.3
	35	32	209.6	14.09	208.8	14.35	208	14.61	208	14.87	208	14.99	208	14.7	207.2	14.29	207.2	13.93
	40	36	219.6	14.5	218.8	14.7	218	14.84	218	14.99	218	14.75	218	14.27	217.2	13.93	217.2	13.52
	45	41	225.3	14.72	225.3	14.9	225.3	14.99	224.9	14.75	224.5	14.39	224.5	13.98	223.7	13.61	223.7	13.2
	47	43	231.7	14.91	231.7	14.99	231.7	14.7	231.3	14.41	230.9	14.09	230.9	13.68	230.9	13.27	228.5	12.87
	50	46	238.1	14.99	238.1	14.74	238.1	14.44	237.7	14.15	237.2	13.73	237.2	13.31	237.2	12.95	227.6	12.47
	55	51	245.9	14.77	245.1	14.43	244.3	14.1	243.9	13.77	243.5	13.42	243.5	12.98	243.5	12.53	226.7	12.11
	60	56	244.3	13.98	244.3	13.67	244.3	13.37	243.9	13.06	243.5	12.51	237.5	12.11	229.2	11.7	213.4	11.26
120	-4	-4.4	142.2	12.53	141.3	12.66	140.4	12.8	140	12.93	139.6	13.18	139.6	13.42	139.6	13.63	138.7	13.9
	0	-0.4	143.9	12.65	143.9	12.8	143.9	12.94	143.5	13.09	143.1	13.34	143.1	13.55	143.1	13.73	142.2	14.03
	5	4.5	159.7	13.08	158.9	13.25	158	13.42	157.6	13.59	157.2	13.76	157.2	14.03	157.2	14.22	156.3	14.64
	10	9	165.1	13.31	165.1	13.48	165.1	13.64	164.6	13.8	164.2	13.95	164.2	14.26	164.2	14.48	163.4	14.93
	15	14	176.5	13.76	175.7	13.94	174.8	14.07	174.8	14.21	174.8	14.44	174	14.68	174	14.93	173.1	14.85
	20	19	184.1	14.04	184.1	14.2	184.1	14.35	183.7	14.51	183.3	14.81	183.3	14.93	183.3	14.8	182.5	14.63
	25	23	192	14.26	191.2	14.4	190.3	14.57	190.3	14.75	190.3	14.93	189.5	14.73	189.5	14.59	189.5	14.42
	30	28	198.6	14.49	197.8	14.64	197	14.78	197	14.93	197	14.71	197	14.52	196.2	14.36	196.2	14.22
	35	32	208.2	14.7	208.2	14.81	208.2	14.93	207.8	14.62	207.4	14.39	207.4	14.15	207.4	13.99	206.6	13.83
	40	36	218.2	14.86	218.2	14.93	218.2	14.63	217.8	14.28	217.4	13.99	217.4	13.79	217.4	13.64	212.5	13.46
	45	41	224.7	14.93	224.7	14.67	224.7	14.38	224.3	14.03	223.9	13.75	223.9	13.51	223.9	13.37	211.7	13.18
	47	43	231.1	14.69	231.1	14.41	231.1	14.14	230.7	13.76	230.3	13.48	230.3	13.23	227.1	13.1	210.9	12.87
	50	46	231.9	14.44	231.1	14.16	230.3	13.89	230.3	13.53	230.3	13.2	226.4	12.92	219.4	12.83	203.8	12.58
	55	51	234.9	14.19	234.2	13.91	233.4	13.63	231.9	13.25	230.3	12.92	222.6	12.63	215.7	12.49	200.4	12.23
	60	56	248.4	13.57	246.7	13.29	244.9	13.01	237.6	12.5	230.3	12.04	222.6	11.66	215.7	11.49	200.4	11.16
110	-4	-4.4	140.5	13.53	139.7	13.62	138.8	13.72	138.8	13.82	138.8	13.99	138.8	14.16	137.9	14.4	137.9	14.63
	0	-0.4	144	13.64	143.2	13.75	142.3	13.86	142.3	13.97	142.3	14.15	141.4	14.35	141.4	14.56	141.4	14.79
	5	4.5	158.1	14.06	157.2	14.2	156.4	14.33	156.4	14.44	156.4	14.59	156.4	14.77	155.5	15.08	155.5	14.99
	10	9	164.3	14.27	164.3	14.41	164.3	14.55	163.9	14.68	163.5	14.81	163.5	15.08	163.5	14.99	162.6	14.75
	15	14	175.7	14.57	174.9	14.75	174.1	14.93	174.1	15.09	174.1	15	174.1	14.88	173.2	14.68	173.2	14.38
	20	19	183.4	14.86	183.4	15.09	183.4	14.89	182.9	14.77	182.5	14.65	182.5	14.53	182.5	14.33	181.7	14.01
	25	23	191.2	15.09	190.4	14.8	189.6	14.62	189.6	14.5	189.6	14.38	189.6	14.23	188.7	14.05	188.7	13.76
	30	28	197.1	14.81	197.1	14.53	197.1	14.35	196.6	14.2	196.2	14.09	196.2	13.94	196.2	13.77	195.4	13.47
	35	32	206.7	14.33	206.7	14.15	206.7	13.97	206.7	13.79	206.7	13.69	205.9	13.55	205.9	13.35	196.1	13.03
	40	36	207.4	13.94	207.4	13.76	207.4	13.58	207.1	13.4	206.7	13.29	206.7	13.11	199.7	12.92	186.5	12.67
	45	41	208.9	13.7	208.2	13.52	207.4	13.33	207	13.15	206.7	13	199.9	12.85	193.1	12.7	180.4	12.35
	47	43	215.7	13.42	214.9	13.24	214.2	13.07	210.4	12.87	206.7	12.73	199.9	12.57	193.1	12.41	180.4	12.03
	50	46	223.2	13.11	221.7	12.93	220.2	12.76	213.4	12.59	206.7	12.37	199.9	12.23	193.1	12.02	180.4	11.69
	55	51	236.7	12.83	228.5	12.63	220.2	12.44	213.4	12.24	206.7	12.02	199.9	11.89	193.1	11.71	180.4	11.36
	60	56	245.8	11.91	233	11.8	220.2	11.69	213.4	11.58	206.7	11.34	199.9	11.21	193.1	11	180.4	10.71

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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LG

ARUN168BT3, ARUN168DT3 / ARUB168BT3, ARUB168DT3 Heating Capacity

168,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	139.1	14.22	139.1	14.33	139.1	14.44	138.7	14.54	138.2	14.68	138.2	14.91	138.2	15.03	137.4	15.01
	0	-0.4	143.5	14.32	142.6	14.45	141.7	14.58	141.7	14.72	141.7	14.83	141.7	15.02	140.9	15.14	140.9	14.83
	5	4.5	156.7	14.67	156.7	14.78	156.7	14.9	156.3	15.02	155.8	15.13	155.8	14.91	155.8	14.51	155	14.18
	10	9	164.6	14.78	163.7	14.9	162.9	15.02	162.9	15.13	162.9	14.85	162.9	14.67	162.1	14.24	162.1	13.85
	15	14	174.3	15.05	174.3	15.13	174.3	15.06	173.9	14.69	173.5	14.39	173.5	14.13	173.5	13.71	172.7	13.31
	20	19	183.6	15.02	182.8	14.85	182	14.67	182	14.33	182	13.99	181.1	13.73	181.1	13.34	181.1	12.95
	25	23	189.8	14.78	189.8	14.61	189.8	14.43	189.4	14.09	189	13.69	189	13.46	189	12.92	180.7	12.58
	30	28	189.8	14.47	189.8	14.29	189.8	14.1	189.4	13.76	189	13.4	189	13.14	186.6	12.63	173.8	12.31
	35	32	192	14	191.3	13.82	190.5	13.64	189.8	13.27	189	12.98	183	12.62	176.9	12.17	164.8	11.82
	40	36	202.6	13.62	201.9	13.43	201.1	13.23	195	12.82	189	12.58	183	12.22	176.9	11.68	164.8	11.33
	45	41	216.2	13.33	208.7	13.12	201.1	12.91	195	12.55	189	12.32	183	11.83	176.9	11.36	164.8	11
	47	**43**	225.3	13.05	213.2	12.85	201.1	12.65	195	12.25	**189**	**12.04**	183	11.52	176.9	11.02	164.8	10.6
	50	46	225.3	12.75	213.2	12.54	201.1	12.32	195	12.02	189	11.74	183	11.27	176.9	10.7	164.8	10.34
	55	51	225.3	12.47	213.2	12.25	201.1	12.03	195	11.66	189	11.37	183	10.94	176.9	10.39	164.8	10.03
	60	56	225.3	11.91	213.2	11.68	201.1	11.46	195	11.02	189	10.66	183	10.23	176.9	9.8	164.8	9.39
90	-4	-4.4	138.5	13.51	138.5	13.67	138.5	13.83	138.1	14.03	137.7	14.15	137.7	14.3	137.7	14.24	137.7	13.75
	0	-0.4	142	13.59	142	13.76	142	13.93	141.6	14.12	141.2	14.25	141.2	14.35	141.2	14.06	140.3	13.55
	5	4.5	156.1	13.96	156.1	14.11	156.1	14.26	155.7	14.35	155.3	14.21	155.3	13.82	155.3	13.47	155.3	12.9
	10	9	164	14.13	163.2	14.24	162.3	14.36	162.3	14.11	162.3	13.85	162.3	13.51	162.3	13.11	161.5	12.55
	15	14	173.8	14.35	173.8	14.22	173.8	13.94	173.3	13.7	172.9	13.23	172.9	12.97	172.9	12.63	164.5	12.13
	20	19	174.5	14.01	173.7	13.82	172.9	13.51	172.9	13.2	172.9	12.85	172.9	12.62	167.4	12.28	155.5	11.8
	25	23	175.2	13.73	175.2	13.5	175.2	13.14	174.1	12.83	172.9	12.56	167.6	12.32	162.2	11.95	150.6	11.42
	30	28	183.7	13.46	182.9	13.21	182.2	12.89	177.5	12.57	172.9	12.27	167.6	12.02	162.2	11.66	150.6	11.15
	35	32	203.7	13.03	193.7	12.82	183.7	12.51	178.3	12.15	172.9	11.87	167.6	11.56	162.2	11.16	150.6	10.69
	40	36	206.7	12.64	195.2	12.41	183.7	12.11	178.3	11.82	172.9	11.47	167.6	11.16	162.2	10.82	150.6	10.22
	45	41	206.7	12.38	195.2	12.14	183.7	11.82	178.3	11.55	172.9	11.19	167.6	10.84	162.2	10.48	150.6	9.94
	47	43	206.7	12.11	195.2	11.86	183.7	11.56	178.3	11.2	172.9	10.9	167.6	10.53	162.2	10.22	150.6	9.64
	50	46	206.7	11.87	195.2	11.62	183.7	11.27	178.3	10.84	172.9	10.55	167.6	10.22	162.2	9.89	150.6	9.27
	55	51	206.7	11.61	195.2	11.31	183.7	10.91	178.3	10.51	172.9	10.2	167.6	9.87	162.2	9.53	150.6	9.01
	60	56	206.7	10.86	195.2	10.55	183.7	10.18	178.3	9.81	172.9	9.49	167.6	9.16	162.2	8.82	150.6	8.39
80	-4	-4.4	137.1	12	137.1	12.12	137.1	12.23	137.1	12.34	137.1	12.52	137.1	12.66	136.2	12.68	136.2	12.34
	0	-0.4	140.6	12.11	140.6	12.22	140.6	12.34	140.6	12.46	140.6	12.62	139.7	12.73	139.7	12.56	139.7	12.18
	5	4.5	154.7	12.46	154.7	12.56	154.7	12.65	154.7	12.73	154.7	12.58	154.7	12.23	153.8	11.95	147.9	11.58
	10	9	155.5	12.6	155.5	12.67	155.5	12.73	155.1	12.49	154.7	12.22	154.7	11.88	151.5	11.66	140.9	11.24
	15	14	159.3	12.73	159.3	12.59	159.3	12.32	157	11.99	154.7	11.64	150.1	11.42	144.6	11.17	134.6	10.81
	20	19	172.5	12.58	168.6	12.24	164.8	11.9	159.7	11.56	154.7	11.21	150.1	11	144.6	10.82	134.6	10.45
	25	23	184.9	12.3	174.8	11.97	164.8	11.64	159.7	11.25	154.7	10.93	150.1	10.7	144.6	10.49	134.6	10.12
	30	28	184.9	12.02	174.8	11.7	164.8	11.33	159.7	10.96	154.7	10.64	150.1	10.39	144.6	10.17	134.6	9.76
	35	32	184.9	11.54	174.8	11.21	164.8	10.89	159.7	10.56	154.7	10.25	150.1	9.97	144.6	9.7	134.6	9.3
	40	36	184.9	11.02	174.8	10.74	164.8	10.46	159.7	10.12	154.7	9.81	150.1	9.5	144.6	9.23	134.6	8.83
	45	41	184.9	10.69	174.8	10.41	164.8	10.14	159.7	9.88	154.7	9.56	150.1	9.19	144.6	8.9	134.6	8.47
	47	43	184.9	10.38	174.8	10.11	164.8	9.85	159.7	9.56	154.7	9.28	150.1	8.89	144.6	8.6	134.6	8.21
	50	46	184.9	10.08	174.8	9.8	164.8	9.52	159.7	9.21	154.7	8.92	150.1	8.54	144.6	8.25	134.6	7.87
	55	51	184.9	9.74	174.8	9.48	164.8	9.21	159.7	8.91	154.7	8.57	150.1	8.22	144.6	8	134.6	7.53
	60	56	184.9	9.03	174.8	8.79	164.8	8.55	159.7	8.21	154.7	7.86	150.1	7.55	144.6	7.32	134.6	6.87

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN168BT3, ARUN168DT3 / ARUB168BT3, ARUB168DT3

168,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	137.7	11.62	137	11.75	136.2	11.89	133.9	12.05	131.7	12.32	127.2	12.4	123.4	12.39	115.1	12.2
	0	-0.4	147.5	11.93	143.7	12.02	140	12.11	135.8	12.29	131.7	12.41	127.2	12.43	123.4	12.34	115.1	12.1
	5	4.5	156.5	12.34	148.2	12.38	140	12.41	135.8	12.43	131.7	12.15	127.2	11.9	123.4	11.69	115.1	11.23
	10	9	156.5	12.38	148.2	12.4	140	12.43	135.8	12	131.7	11.62	127.2	11.31	123.4	11.02	115.1	10.4
	15	14	156.5	12.43	148.2	12.26	140	11.74	135.8	11.18	131.7	10.61	127.2	10.16	123.4	9.91	115.1	9.51
	20	19	156.5	11.78	148.2	11.39	140	10.94	135.8	10.49	131.7	10.13	127.2	9.75	123.4	9.49	115.1	9.09
	25	23	156.5	11.26	148.2	10.92	140	10.51	135.8	10.1	131.7	9.79	127.2	9.4	123.4	9.14	115.1	8.8
	30	28	156.5	10.84	148.2	10.52	140	10.17	135.8	9.81	131.7	9.49	127.2	9.18	123.4	8.94	115.1	8.52
	35	32	156.5	10.23	148.2	9.97	140	9.68	135.8	9.27	131.7	9.03	127.2	8.71	123.4	8.5	115.1	7.98
	40	36	156.5	9.87	148.2	9.56	140	9.25	135.8	8.87	131.7	8.57	127.2	8.25	123.4	8	115.1	7.53
	45	41	156.5	9.62	148.2	9.28	140	8.95	135.8	8.55	131.7	8.26	127.2	7.92	123.4	7.65	115.1	7.27
	47	43	156.5	9.26	148.2	8.92	140	8.57	135.8	8.23	131.7	7.95	127.2	7.59	123.4	7.36	115.1	6.92
	50	46	156.5	8.99	148.2	8.64	140	8.3	135.8	7.89	131.7	7.65	127.2	7.33	123.4	7.08	115.1	6.6
	55	51	156.5	8.75	148.2	8.38	140	8.01	135.8	7.59	131.7	7.29	127.2	6.97	123.4	6.74	115.1	6.26
	60	56	156.5	8.06	148.2	7.71	140	7.35	135.8	6.88	131.7	6.59	127.2	6.27	123.4	6.04	115.1	5.66
60	-4	-4.4	118.1	11.41	118.1	11.61	118.1	11.81	115.5	12.01	112.9	12.22	109.1	12.07	105.4	12.01	98.6	11.13
	0	-0.4	123.4	11.44	121.9	11.65	120.4	11.87	116.6	12.14	112.9	12.29	109.1	12.01	105.4	11.67	98.6	10.73
	5	4.5	133.9	11.88	127.2	12.16	120.4	12.42	116.6	11.87	112.9	10.99	109.1	10.58	105.4	10.18	98.6	9.37
	10	9	133.9	12.16	127.2	12.43	120.4	11.94	116.6	11.13	112.9	10.31	109.1	9.98	105.4	9.57	98.6	8.82
	15	14	133.9	12.05	127.2	11.51	120.4	11	116.6	10.24	112.9	9.56	109.1	9.23	105.4	8.87	98.6	8.19
	20	19	133.9	11.45	127.2	11	120.4	10.52	116.6	9.82	112.9	9.13	109.1	8.78	105.4	8.51	98.6	7.81
	25	23	133.9	10.98	127.2	10.51	120.4	10.04	116.6	9.36	112.9	8.73	109.1	8.37	105.4	8.1	98.6	7.46
	30	28	133.9	10.45	127.2	10.02	120.4	9.59	116.6	8.96	112.9	8.39	109.1	8.05	105.4	7.77	98.6	7.21
	35	32	133.9	9.74	127.2	9.36	120.4	8.99	116.6	8.42	112.9	7.87	109.1	7.58	105.4	7.3	98.6	6.74
	40	36	133.9	9.05	127.2	8.74	120.4	8.44	116.6	7.96	112.9	7.39	109.1	7.12	105.4	6.87	98.6	6.38
	45	41	133.9	8.68	127.2	8.36	120.4	8.04	116.6	7.54	112.9	7.07	109.1	6.78	105.4	6.58	98.6	6.1
	47	43	133.9	8.25	127.2	7.93	120.4	7.61	116.6	7.12	112.9	6.79	109.1	6.53	105.4	6.26	98.6	5.82
	50	46	133.9	7.96	127.2	7.67	120.4	7.38	116.6	6.93	112.9	6.5	109.1	6.33	105.4	6.04	98.6	5.67
	55	51	133.9	7.59	127.2	7.32	120.4	7.06	116.6	6.64	112.9	6.24	109.1	6.04	105.4	5.83	98.6	5.43
	60	56	133.9	7.16	127.2	6.9	120.4	6.64	116.6	6.24	112.9	5.83	109.1	5.63	105.4	5.43	98.6	5.08
50	-4	-4.4	112.1	11.52	106.1	11.44	100.1	11.34	97.1	10.95	94.1	10.56	91.1	10.16	88	9.76	82	8.97
	0	-0.4	112.1	11.37	106.1	11.34	100.1	10.94	97.1	10.58	94.1	10.21	91.1	9.81	88	9.43	82	8.69
	5	4.5	112.1	10.23	106.1	9.92	100.1	9.6	97.1	9.26	94.1	8.92	91.1	8.64	88	8.3	82	7.67
	10	9	112.1	9.58	106.1	9.31	100.1	9.03	97.1	8.72	94.1	8.4	91.1	8.12	88	7.84	82	7.22
	15	14	112.1	8.8	106.1	8.56	100.1	8.3	97.1	8.02	94.1	7.74	91.1	7.51	88	7.22	82	6.66
	20	19	112.1	8.28	106.1	8.06	100.1	7.84	97.1	7.56	94.1	7.27	91.1	7.06	88	6.78	82	6.33
	25	23	112.1	7.89	106.1	7.68	100.1	7.46	97.1	7.2	94.1	6.94	91.1	6.71	88	6.49	82	6.04
	30	28	112.1	7.6	106.1	7.36	100.1	7.11	97.1	6.88	94.1	6.66	91.1	6.43	88	6.21	82	5.76
	35	32	112.1	7	106.1	6.86	100.1	6.71	97.1	6.48	94.1	6.26	91.1	6.04	88	5.86	82	5.41
	40	36	112.1	6.61	106.1	6.47	100.1	6.33	97.1	6.13	94.1	5.93	91.1	5.7	88	5.53	82	5.13
	45	41	112.1	6.43	106.1	6.27	100.1	6.09	97.1	5.9	94.1	5.7	91.1	5.53	88	5.36	82	4.97
	47	43	112.1	6.13	106.1	5.98	100.1	5.83	97.1	5.68	94.1	5.53	91.1	5.26	88	5.09	82	4.75
	50	46	112.1	5.96	106.1	5.83	100.1	5.7	97.1	5.53	94.1	5.36	91.1	5.2	88	5.03	82	4.68
	55	51	112.1	5.78	106.1	5.66	100.1	5.53	97.1	5.36	94.1	5.2	91.1	5.03	88	4.85	82	4.57
	60	56	112.1	5.47	106.1	5.34	100.1	5.2	97.1	5.06	94.1	4.92	91.1	4.75	88	4.57	82	4.28

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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LG

ARUN192BT3, ARUN192DT3 / ARUB192BT3, ARUB192DT3 Heating Capacity

192,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	-4	-4.4	161.1	13.31	161.1	13.62	161.1	13.92	160.7	14.22	160.2	14.47	160.2	14.75	160.2	15.07	159.2	15.45
	0	-0.4	165.2	13.58	165.2	13.85	165.2	14.12	164.7	14.39	164.2	14.65	164.2	14.87	163.2	15.23	163.2	15.65
	5	4.5	181.2	14.13	181.2	14.42	181.2	14.7	180.8	14.99	180.3	15.14	180.3	15.57	180.3	16	179.3	16.42
	10	9	190.3	14.38	189.3	14.67	188.3	14.96	188.3	15.25	188.3	15.36	187.4	15.86	187.4	16.35	187.4	16.75
	15	14	201.4	14.82	201.4	15.14	201.4	15.45	200.9	15.77	200.5	15.91	200.5	16.36	200.5	16.86	199.5	17.24
	20	19	212	15.24	211.1	15.54	210.1	15.84	210.1	16.14	210.1	16.27	209.2	16.72	209.2	17.24	209.2	16.96
	25	23	219.1	15.49	219.1	15.82	219.1	16.14	218.6	16.47	218.2	16.65	218.2	17.1	218.2	17.11	217.2	16.73
	30	28	228.6	15.76	227.7	16.09	226.7	16.42	226.3	16.75	225.8	16.97	225.8	17.24	225.8	16.87	224.8	16.45
	35	32	239.6	16.21	238.7	16.51	237.7	16.81	237.7	17.1	237.7	17.24	237.7	16.91	236.8	16.44	236.8	16.02
	40	36	251	16.68	250.1	16.91	249.1	17.07	249.1	17.24	249.1	16.97	249.1	16.41	248.2	16.02	248.2	15.55
	45	41	257.5	16.94	257.5	17.14	257.5	17.24	257	16.97	256.5	16.55	256.5	16.08	255.6	15.66	255.6	15.18
	47	43	264.8	17.15	264.8	17.25	264.8	16.91	264.3	16.58	263.9	16.2	263.9	15.73	263.9	15.27	261.1	14.81
	50	46	272.1	17.24	272.1	16.95	272.1	16.61	271.6	16.27	271.1	15.8	271.1	15.32	271.1	14.89	260.1	14.34
	55	51	281.1	16.99	280.1	16.6	279.2	16.22	278.8	15.84	278.3	15.44	278.3	14.93	278.3	14.41	259.1	13.93
	60	56	279.2	16.08	279.2	15.73	279.2	15.38	278.7	15.03	278.3	14.39	271.4	13.94	261.9	13.46	243.8	12.95
120	-4	-4.4	162.5	14.41	161.5	14.57	160.5	14.72	160	14.88	159.5	15.17	159.5	15.44	159.5	15.68	158.5	15.99
	0	-0.4	164.5	14.56	164.5	14.72	164.5	14.89	164	15.05	163.5	15.35	163.5	15.58	163.5	15.8	162.5	16.14
	5	4.5	182.5	15.04	181.6	15.24	180.6	15.44	180.1	15.64	179.6	15.83	179.6	16.14	179.6	16.35	178.6	16.84
	10	9	188.6	15.32	188.6	15.5	188.6	15.69	188.2	15.88	187.7	16.05	187.7	16.4	187.7	16.65	186.7	17.17
	15	14	201.7	15.83	200.8	16.03	199.8	16.19	199.8	16.35	199.8	16.61	198.8	16.88	198.8	17.18	197.9	17.08
	20	19	210.4	16.16	210.4	16.33	210.4	16.51	209.9	16.69	209.5	17.04	209.5	17.17	209.5	17.02	208.5	16.83
	25	23	219.4	16.4	218.5	16.56	217.5	16.77	217.5	16.97	217.5	17.17	216.6	16.95	216.6	16.78	216.6	16.59
	30	28	227	16.67	226.1	16.84	225.1	17.01	225.1	17.17	225.1	16.92	225.1	16.7	224.2	16.52	224.2	16.35
	35	32	238	16.91	238	17.04	238	17.17	237.5	16.82	237.1	16.55	237.1	16.27	237.1	16.09	236.1	15.91
	40	36	249.4	17.09	249.4	17.17	249.4	16.82	248.9	16.42	248.5	16.09	248.5	15.86	248.5	15.7	242.9	15.48
	45	41	256.8	17.17	256.8	16.88	256.8	16.54	256.4	16.14	255.9	15.82	255.9	15.54	255.9	15.38	242	15.17
	47	43	264.1	16.9	264.1	16.58	264.1	16.26	263.7	15.82	263.2	15.51	263.2	15.22	259.5	15.07	241.1	14.8
	50	46	265	16.61	264.1	16.29	263.2	15.98	263.2	15.56	263.2	15.18	258.8	14.86	250.7	14.75	232.9	14.47
	55	51	268.5	16.33	267.6	16	266.7	15.68	265	15.25	263.2	14.86	254.5	14.52	246.6	14.37	229	14.07
	60	56	283.9	15.61	281.9	15.29	279.9	14.97	271.6	14.37	263.2	13.85	254.5	13.41	246.6	13.21	229	12.84
110	-4	-4.4	160.6	15.56	159.6	15.67	158.6	15.79	158.6	15.9	158.6	16.09	158.6	16.29	157.6	16.56	157.6	16.83
	0	-0.4	164.6	15.69	163.6	15.82	162.6	15.94	162.6	16.07	162.6	16.27	161.7	16.51	161.7	16.75	161.7	17.01
	5	4.5	180.7	16.18	179.7	16.33	178.7	16.49	178.7	16.62	178.7	16.79	178.7	16.99	177.8	17.35	177.8	17.25
	10	9	187.8	16.41	187.8	16.58	187.8	16.74	187.3	16.88	186.8	17.03	186.8	17.35	186.8	17.24	185.8	16.96
	15	14	200.8	16.76	199.9	16.97	198.9	17.18	198.9	17.35	198.9	17.26	198.9	17.12	198	16.88	198	16.54
	20	19	209.6	17.09	209.6	17.35	209.6	17.13	209.1	16.99	208.6	16.86	208.6	16.72	208.6	16.48	207.7	16.11
	25	23	218.5	17.35	217.6	17.02	216.6	16.81	216.6	16.68	216.6	16.54	216.6	16.37	215.7	16.17	215.7	15.82
	30	28	225.2	17.04	225.2	16.72	225.2	16.51	224.7	16.33	224.3	16.21	224.3	16.04	224.3	15.84	223.3	15.5
	35	32	236.2	16.49	236.2	16.28	236.2	16.07	236.2	15.87	236.2	15.75	235.3	15.58	235.3	15.35	224.1	14.99
	40	36	237.1	16.04	237.1	15.83	237.1	15.62	236.6	15.42	236.2	15.29	236.2	15.08	228.2	14.87	213.1	14.57
	45	41	238.8	15.76	237.9	15.55	237.1	15.34	236.6	15.13	236.2	14.96	228.5	14.78	220.7	14.6	206.1	14.2
	47	43	246.5	15.44	245.6	15.24	244.8	15.03	240.5	14.81	236.2	14.64	228.5	14.46	220.7	14.28	206.1	13.83
	50	46	255.1	15.08	253.4	14.87	251.7	14.67	243.9	14.49	236.2	14.22	228.5	14.07	220.7	13.82	206.1	13.45
	55	51	270.6	14.76	261.1	14.53	251.7	14.31	243.9	14.08	236.2	13.82	228.5	13.67	220.7	13.47	206.1	13.06
	60	56	280.9	13.7	266.3	13.57	251.7	13.44	243.9	13.32	236.2	13.05	228.5	12.89	220.7	12.66	206.1	12.32

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN192BT3, ARUN192DT3 / ARUB192BT3, ARUB192DT3

192,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	159	16.36	159	16.48	159	16.61	158.5	16.73	158	16.88	158	17.16	158	17.29	157	17.27
	0	-0.4	164	16.47	163	16.62	162	16.78	162	16.93	162	17.06	162	17.28	161	17.41	161	17.06
	5	4.5	179.1	16.87	179.1	17.01	179.1	17.14	178.6	17.27	178.1	17.41	178.1	17.15	178.1	16.69	177.1	16.31
	10	9	188.1	17	187.1	17.14	186.2	17.27	186.2	17.41	186.2	17.08	186.2	16.88	185.2	16.38	185.2	15.93
	15	14	199.2	17.31	199.2	17.41	199.2	17.32	198.8	16.89	198.3	16.55	198.3	16.26	198.3	15.77	197.3	15.32
	20	19	209.9	17.28	208.9	17.08	208	16.88	208	16.48	208	16.09	207	15.8	207	15.35	207	14.9
	25	23	216.9	17	216.9	16.8	216.9	16.6	216.5	16.2	216	15.75	216	15.49	216	14.86	206.5	14.47
	30	28	216.9	16.65	216.9	16.43	216.9	16.22	216.5	15.83	216	15.42	216	15.11	213.3	14.53	198.7	14.16
	35	32	219.5	16.11	218.6	15.9	217.7	15.69	216.9	15.27	216	14.93	209.1	14.52	202.2	14	188.4	13.6
	40	36	231.6	15.67	230.7	15.44	229.8	15.22	222.9	14.75	216	14.47	209.1	14.06	202.2	13.44	188.4	13.04
	45	41	247.1	15.33	238.5	15.09	229.8	14.85	222.9	14.44	216	14.17	209.1	13.61	202.2	13.07	188.4	12.65
	47	**43**	257.5	15.01	243.6	14.78	229.8	14.55	222.9	14.1	**216**	**13.85**	209.1	13.25	202.2	12.68	188.4	12.19
	50	46	257.5	14.67	243.6	14.42	229.8	14.18	222.9	13.82	216	13.5	209.1	12.96	202.2	12.31	188.4	11.9
	55	51	257.5	14.34	243.6	14.09	229.8	13.84	222.9	13.42	216	13.07	209.1	12.59	202.2	11.96	188.4	11.54
	60	56	257.5	13.7	243.6	13.44	229.8	13.19	222.9	12.67	216	12.26	209.1	11.77	202.2	11.27	188.4	10.8
90	-4	-4.4	158.3	15.54	158.3	15.72	158.3	15.9	157.8	16.14	157.3	16.28	157.3	16.45	157.3	16.37	157.3	15.81
	0	-0.4	162.3	15.63	162.3	15.83	162.3	16.03	161.8	16.25	161.3	16.39	161.3	16.51	161.3	16.17	160.4	15.59
	5	4.5	178.4	16.06	178.4	16.23	178.4	16.4	177.9	16.51	177.4	16.34	177.4	15.89	177.4	15.49	177.4	14.84
	10	9	187.5	16.26	186.5	16.38	185.5	16.51	185.5	16.23	185.5	15.93	185.5	15.54	185.5	15.08	184.6	14.43
	15	14	198.6	16.51	198.6	16.36	198.6	16.04	198.1	15.76	197.6	15.22	197.6	14.92	197.6	14.52	188	13.96
	20	19	199.4	16.12	198.5	15.9	197.6	15.54	197.6	15.18	197.6	14.78	197.6	14.52	191.3	14.13	177.7	13.57
	25	23	200.3	15.79	200.3	15.53	200.3	15.12	199	14.76	197.6	14.45	191.5	14.17	185.3	13.75	172.2	13.13
	30	28	209.9	15.48	209.1	15.19	208.2	14.83	202.9	14.46	197.6	14.11	191.5	13.83	185.3	13.41	172.2	12.82
	35	32	232.8	14.99	221.4	14.75	209.9	14.39	203.8	13.98	197.6	13.66	191.5	13.3	185.3	12.84	172.2	12.29
	40	36	236.3	14.54	223.1	14.27	209.9	13.93	203.8	13.6	197.6	13.2	191.5	12.83	185.3	12.45	172.2	11.75
	45	41	236.3	14.24	223.1	13.96	209.9	13.6	203.8	13.28	197.6	12.87	191.5	12.47	185.3	12.05	172.2	11.43
	47	43	236.3	13.93	223.1	13.64	209.9	13.3	203.8	12.89	197.6	12.54	191.5	12.12	185.3	11.76	172.2	11.08
	50	46	236.3	13.66	223.1	13.37	209.9	12.96	203.8	12.47	197.6	12.14	191.5	11.75	185.3	11.38	172.2	10.67
	55	51	236.3	13.35	223.1	13.01	209.9	12.55	203.8	12.09	197.6	11.73	191.5	11.35	185.3	10.96	172.2	10.36
	60	56	236.3	12.49	223.1	12.13	209.9	11.71	203.8	11.28	197.6	10.91	191.5	10.53	185.3	10.15	172.2	9.65
80	-4	-4.4	156.7	13.81	156.7	13.94	156.7	14.07	156.7	14.19	156.7	14.41	156.7	14.57	155.7	14.59	155.7	14.2
	0	-0.4	160.7	13.93	160.7	14.05	160.7	14.19	160.7	14.34	160.7	14.52	159.7	14.64	159.7	14.45	159.7	14.01
	5	4.5	176.8	14.33	176.8	14.45	176.8	14.56	176.8	14.64	176.8	14.47	176.8	14.07	175.8	13.74	169	13.32
	10	9	177.7	14.5	177.7	14.57	177.7	14.64	177.3	14.37	176.8	14.06	176.8	13.66	173.1	13.41	161.1	12.93
	15	14	182.1	14.64	182.1	14.49	182.1	14.17	179.4	13.79	176.8	13.39	171.5	13.14	165.3	12.85	153.8	12.44
	20	19	197.1	14.48	192.7	14.08	188.3	13.69	182.5	13.3	176.8	12.89	171.5	12.65	165.3	12.44	153.8	12.02
	25	23	211.3	14.15	199.8	13.77	188.3	13.39	182.5	12.94	176.8	12.58	171.5	12.31	165.3	12.07	153.8	11.64
	30	28	211.3	13.82	199.8	13.46	188.3	13.03	182.5	12.61	176.8	12.24	171.5	11.95	165.3	11.7	153.8	11.23
	35	32	211.3	13.27	199.8	12.9	188.3	12.52	182.5	12.15	176.8	11.79	171.5	11.47	165.3	11.16	153.8	10.7
	40	36	211.3	12.67	199.8	12.35	188.3	12.04	182.5	11.64	176.8	11.29	171.5	10.93	165.3	10.61	153.8	10.16
	45	41	211.3	12.3	199.8	11.98	188.3	11.66	182.5	11.37	176.8	11	171.5	10.57	165.3	10.24	153.8	9.75
	47	43	211.3	11.94	199.8	11.63	188.3	11.33	182.5	11	176.8	10.67	171.5	10.23	165.3	9.89	153.8	9.45
	50	46	211.3	11.6	199.8	11.27	188.3	10.95	182.5	10.6	176.8	10.27	171.5	9.82	165.3	9.49	153.8	9.05
	55	51	211.3	11.21	199.8	10.9	188.3	10.59	182.5	10.25	176.8	9.86	171.5	9.46	165.3	9.2	153.8	8.67
	60	56	211.3	10.38	199.8	10.11	188.3	9.84	182.5	9.44	176.8	9.04	171.5	8.68	165.3	8.42	153.8	7.91

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN192BT3, ARUN192DT3 / ARUB192BT3, ARUB192DT3 Heating Capacity

192,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	157.4	13.36	156.5	13.52	155.7	13.67	153.1	13.87	150.5	14.17	145.3	14.27	141	14.26	131.6	14.04
	0	-0.4	168.6	13.72	164.3	13.82	160	13.93	155.2	14.13	150.5	14.28	145.3	14.29	141	14.19	131.6	13.91
	5	4.5	178.9	14.19	169.4	14.24	160	14.28	155.2	14.3	150.5	13.97	145.3	13.69	141	13.45	131.6	12.92
	10	9	178.9	14.24	169.4	14.27	160	14.29	155.2	13.81	150.5	13.37	145.3	13.01	141	12.68	131.6	11.96
	15	14	178.9	14.29	169.4	14.1	160	13.51	155.2	12.86	150.5	12.2	145.3	11.69	141	11.4	131.6	10.94
	20	19	178.9	13.55	169.4	13.1	160	12.58	155.2	12.06	150.5	11.65	145.3	11.21	141	10.91	131.6	10.46
	25	23	178.9	12.95	169.4	12.56	160	12.09	155.2	11.62	150.5	11.26	145.3	10.81	141	10.52	131.6	10.12
	30	28	178.9	12.47	169.4	12.11	160	11.7	155.2	11.29	150.5	10.91	145.3	10.56	141	10.28	131.6	9.8
	35	32	178.9	11.77	169.4	11.47	160	11.13	155.2	10.66	150.5	10.39	145.3	10.02	141	9.78	131.6	9.18
	40	36	178.9	11.35	169.4	11	160	10.64	155.2	10.2	150.5	9.86	145.3	9.49	141	9.21	131.6	8.67
	45	41	178.9	11.06	169.4	10.68	160	10.3	155.2	9.83	150.5	9.5	145.3	9.11	141	8.8	131.6	8.37
	47	43	178.9	10.66	169.4	10.26	160	9.86	155.2	9.47	150.5	9.15	145.3	8.74	141	8.47	131.6	7.97
	50	46	178.9	10.34	169.4	9.94	160	9.55	155.2	9.08	150.5	8.8	145.3	8.43	141	8.14	131.6	7.59
	55	51	178.9	10.07	169.4	9.64	160	9.21	155.2	8.73	150.5	8.39	145.3	8.01	141	7.75	131.6	7.2
	60	56	178.9	9.27	169.4	8.86	160	8.45	155.2	7.92	150.5	7.58	145.3	7.22	141	6.95	131.6	6.51
60	-4	-4.4	135	13.12	135	13.35	135	13.58	132	13.81	129	14.06	124.7	13.89	120.4	13.81	112.7	12.8
	0	-0.4	141	13.15	139.3	13.41	137.6	13.66	133.3	13.96	129	14.14	124.7	13.81	120.4	13.43	112.7	12.34
	5	4.5	153.1	13.67	145.3	13.99	137.6	14.29	133.3	13.66	129	12.65	124.7	12.17	120.4	11.71	112.7	10.77
	10	9	153.1	13.99	145.3	14.29	137.6	13.74	133.3	12.8	129	11.86	124.7	11.48	120.4	11	112.7	10.14
	15	14	153.1	13.86	145.3	13.24	137.6	12.65	133.3	11.78	129	11	124.7	10.61	120.4	10.21	112.7	9.42
	20	19	153.1	13.17	145.3	12.65	137.6	12.11	133.3	11.3	129	10.5	124.7	10.1	120.4	9.79	112.7	8.99
	25	23	153.1	12.63	145.3	12.09	137.6	11.55	133.3	10.77	129	10.04	124.7	9.63	120.4	9.31	112.7	8.59
	30	28	153.1	12.02	145.3	11.52	137.6	11.03	133.3	10.3	129	9.65	124.7	9.26	120.4	8.94	112.7	8.29
	35	32	153.1	11.2	145.3	10.77	137.6	10.34	133.3	9.69	129	9.05	124.7	8.72	120.4	8.4	112.7	7.75
	40	36	153.1	10.41	145.3	10.06	137.6	9.71	133.3	9.15	129	8.5	124.7	8.19	120.4	7.9	112.7	7.34
	45	41	153.1	9.98	145.3	9.61	137.6	9.24	133.3	8.68	129	8.13	124.7	7.8	120.4	7.57	112.7	7.02
	47	43	153.1	9.49	145.3	9.12	137.6	8.75	133.3	8.2	129	7.81	124.7	7.51	120.4	7.2	112.7	6.7
	50	46	153.1	9.16	145.3	8.82	137.6	8.49	133.3	7.97	129	7.47	124.7	7.28	120.4	6.95	112.7	6.52
	55	51	153.1	8.73	145.3	8.42	137.6	8.12	133.3	7.64	129	7.18	124.7	6.95	120.4	6.71	112.7	6.25
	60	56	153.1	8.23	145.3	7.94	137.6	7.64	133.3	7.18	129	6.71	124.7	6.48	120.4	6.25	112.7	5.85
50	-4	-4.4	128.1	13.25	121.3	13.16	114.4	13.05	110.9	12.6	107.5	12.15	104.1	11.69	100.6	11.23	93.7	10.32
	0	-0.4	128.1	13.07	121.3	13.04	114.4	12.59	110.9	12.17	107.5	11.75	104.1	11.29	100.6	10.85	93.7	9.99
	5	4.5	128.1	11.77	121.3	11.41	114.4	11.04	110.9	10.65	107.5	10.26	104.1	9.93	100.6	9.55	93.7	8.83
	10	9	128.1	11.02	121.3	10.71	114.4	10.39	110.9	10.03	107.5	9.67	104.1	9.34	100.6	9.02	93.7	8.31
	15	14	128.1	10.13	121.3	9.84	114.4	9.55	110.9	9.23	107.5	8.9	104.1	8.63	100.6	8.31	93.7	7.66
	20	19	128.1	9.52	121.3	9.27	114.4	9.02	110.9	8.69	107.5	8.37	104.1	8.12	100.6	7.79	93.7	7.28
	25	23	128.1	9.07	121.3	8.83	114.4	8.58	110.9	8.28	107.5	7.99	104.1	7.72	100.6	7.47	93.7	6.95
	30	28	128.1	8.74	121.3	8.46	114.4	8.18	110.9	7.92	107.5	7.66	104.1	7.39	100.6	7.14	93.7	6.63
	35	32	128.1	8.05	121.3	7.89	114.4	7.72	110.9	7.46	107.5	7.2	104.1	6.95	100.6	6.74	93.7	6.23
	40	36	128.1	7.61	121.3	7.45	114.4	7.28	110.9	7.05	107.5	6.82	104.1	6.55	100.6	6.36	93.7	5.9
	45	41	128.1	7.4	121.3	7.21	114.4	7.01	110.9	6.78	107.5	6.55	104.1	6.36	100.6	6.17	93.7	5.71
	47	43	128.1	7.06	121.3	6.88	114.4	6.7	110.9	6.53	107.5	6.36	104.1	6.05	100.6	5.86	93.7	5.47
	50	46	128.1	6.86	121.3	6.71	114.4	6.55	110.9	6.36	107.5	6.17	104.1	5.98	100.6	5.79	93.7	5.39
	55	51	128.1	6.65	121.3	6.51	114.4	6.36	110.9	6.17	107.5	5.98	104.1	5.79	100.6	5.58	93.7	5.25
	60	56	128.1	6.29	121.3	6.14	114.4	5.98	110.9	5.82	107.5	5.65	104.1	5.46	100.6	5.25	93.7	4.93

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN216BT3, ARUN216DT3 / ARUB216BT3, ARUB216DT3

216,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	181.3	15.01	181.3	15.36	181.3	15.7	180.7	16.04	180.2	16.32	180.2	16.64	180.2	16.99	179.1	17.43
	0	-0.4	185.8	15.32	185.8	15.62	185.8	15.93	185.2	16.23	184.7	16.53	184.7	16.78	183.6	17.18	183.6	17.65
	5	4.5	203.9	15.94	203.9	16.26	203.9	16.58	203.3	16.9	202.8	17.07	202.8	17.56	202.8	18.04	201.7	18.52
	10	9	214.1	16.21	213	16.54	211.9	16.87	211.9	17.2	211.9	17.32	210.8	17.88	210.8	18.44	210.8	18.9
	15	14	226.6	16.72	226.6	17.07	226.6	17.43	226.1	17.78	225.5	17.95	225.5	18.45	225.5	19.01	224.4	19.45
	20	19	238.5	17.19	237.5	17.53	236.4	17.86	236.4	18.2	236.4	18.35	235.3	18.85	235.3	19.45	235.3	19.13
	25	23	246.5	17.47	246.5	17.84	246.5	18.21	246	18.57	245.4	18.78	245.4	19.29	245.4	19.29	244.4	18.87
	30	28	257.2	17.78	256.1	18.15	255.1	18.52	254.5	18.89	254	19.13	254	19.45	254	19.03	252.9	18.56
	35	32	269.5	18.28	268.5	18.62	267.4	18.95	267.4	19.29	267.4	19.45	267.4	19.07	266.4	18.54	266.4	18.07
	40	36	282.4	18.81	281.3	19.07	280.3	19.26	280.3	19.45	280.3	19.13	280.3	18.51	279.2	18.07	279.2	17.54
	45	41	289.7	19.1	289.7	19.33	289.7	19.45	289.1	19.13	288.6	18.67	288.6	18.13	287.6	17.66	287.6	17.12
	47	43	297.9	19.34	297.9	19.45	297.9	19.07	297.4	18.7	296.9	18.28	296.9	17.74	296.9	17.22	293.8	16.7
	50	46	306.1	19.45	306.1	19.12	306.1	18.74	305.6	18.35	305	17.82	305	17.27	305	16.8	292.6	16.18
	55	51	316.2	19.16	315.2	18.73	314.1	18.3	313.6	17.86	313.1	17.42	313.1	16.84	313.1	16.25	291.5	15.71
	60	56	314.1	18.14	314.1	17.74	314.1	17.34	313.6	16.95	313.1	16.23	305.3	15.72	294.7	15.18	274.3	14.61
120	-4	-4.4	182.8	16.25	181.7	16.43	180.6	16.6	180	16.78	179.4	17.1	179.4	17.42	179.4	17.68	178.3	18.04
	0	-0.4	185.1	16.42	185.1	16.6	185.1	16.79	184.5	16.98	183.9	17.31	183.9	17.57	183.9	17.81	182.8	18.2
	5	4.5	205.4	16.96	204.3	17.19	203.2	17.41	202.6	17.63	202.1	17.85	202.1	18.21	202.1	18.44	201	18.99
	10	9	212.2	17.27	212.2	17.48	212.2	17.69	211.7	17.9	211.1	18.1	211.1	18.49	211.1	18.78	210.1	19.37
	15	14	226.9	17.85	225.8	18.08	224.8	18.26	224.8	18.44	224.8	18.73	223.7	19.04	223.7	19.37	222.6	19.26
	20	19	236.7	18.22	236.7	18.42	236.7	18.62	236.2	18.82	235.7	19.21	235.7	19.37	235.7	19.2	234.6	18.98
	25	23	246.8	18.49	245.8	18.68	244.7	18.91	244.7	19.13	244.7	19.37	243.6	19.11	243.6	18.92	243.6	18.71
	30	28	255.4	18.8	254.3	18.99	253.3	19.18	253.3	19.37	253.3	19.09	253.3	18.84	252.2	18.63	252.2	18.44
	35	32	267.7	19.07	267.7	19.22	267.7	19.37	267.2	18.97	266.7	18.67	266.7	18.35	266.7	18.15	265.6	17.94
	40	36	280.6	19.28	280.6	19.37	280.6	18.97	280.1	18.52	279.5	18.15	279.5	17.88	279.5	17.7	273.3	17.46
	45	41	288.9	19.37	288.9	19.04	288.9	18.65	288.4	18.2	287.9	17.84	287.9	17.53	287.9	17.34	272.2	17.11
	47	43	297.2	19.06	297.2	18.7	297.2	18.34	296.6	17.85	296.1	17.49	296.1	17.16	292	17	271.2	16.69
	50	46	298.1	18.73	297.1	18.37	296.1	18.02	296.1	17.55	296.1	17.12	291.1	16.76	282.1	16.64	262	16.31
	55	51	302.1	18.41	301.1	18.05	300.1	17.68	298.1	17.2	296.1	16.76	286.3	16.38	277.4	16.21	257.6	15.87
	60	56	319.4	17.6	317.1	17.24	314.9	16.88	305.5	16.21	296.1	15.62	286.3	15.13	277.4	14.9	257.6	14.48
110	-4	-4.4	180.7	17.55	179.6	17.68	178.5	17.81	178.5	17.93	178.5	18.15	178.5	18.37	177.3	18.68	177.3	18.98
	0	-0.4	185.2	17.7	184.1	17.84	183	17.98	183	18.12	183	18.35	181.9	18.62	181.9	18.89	181.9	19.19
	5	4.5	203.3	18.24	202.2	18.42	201.1	18.59	201.1	18.74	201.1	18.93	201.1	19.16	200	19.57	200	19.45
	10	9	211.3	18.51	211.3	18.69	211.3	18.88	210.7	19.04	210.2	19.21	210.2	19.57	210.2	19.44	209.1	19.13
	15	14	226	18.9	224.9	19.13	223.8	19.37	223.8	19.57	223.8	19.46	223.8	19.31	222.7	19.04	222.7	18.65
	20	19	235.8	19.28	235.8	19.57	235.8	19.32	235.2	19.17	234.7	19.01	234.7	18.85	234.7	18.59	233.6	18.17
	25	23	245.9	19.57	244.8	19.2	243.7	18.96	243.7	18.81	243.7	18.65	243.7	18.47	242.7	18.23	242.7	17.85
	30	28	253.4	19.21	253.4	18.85	253.4	18.62	252.8	18.42	252.3	18.28	252.3	18.09	252.3	17.87	251.2	17.48
	35	32	265.7	18.6	265.7	18.36	265.7	18.13	265.7	17.89	265.7	17.76	264.7	17.57	264.7	17.31	252.1	16.91
	40	36	266.7	18.09	266.7	17.85	266.7	17.62	266.2	17.39	265.7	17.24	265.7	17.01	256.7	16.77	239.7	16.43
	45	41	268.6	17.78	267.7	17.54	266.7	17.3	266.2	17.06	265.7	16.87	257	16.67	248.3	16.47	231.9	16.02
	47	43	277.3	17.41	276.3	17.18	275.4	16.95	270.6	16.7	265.7	16.51	257	16.31	248.3	16.1	231.9	15.6
	50	46	287	17	285	16.78	283.1	16.55	274.4	16.34	265.7	16.04	257	15.87	248.3	15.59	231.9	15.17
	55	51	304.4	16.64	293.7	16.39	283.1	16.13	274.4	15.88	265.7	15.59	257	15.42	248.3	15.19	231.9	14.73
	60	56	316	15.45	299.5	15.3	283.1	15.16	274.4	15.02	265.7	14.71	257	14.54	248.3	14.27	231.9	13.9

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN216BT3, ARUN216DT3 / ARUB216BT3, ARUB216DT3 Heating Capacity

216,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	178.8	18.45	178.8	18.59	178.8	18.73	178.3	18.87	177.7	19.04	177.7	19.35	177.7	19.5	176.6	19.48
	0	-0.4	184.5	18.58	183.3	18.75	182.2	18.92	182.2	19.09	182.2	19.24	182.2	19.49	181.1	19.64	181.1	19.24
	5	4.5	201.4	19.03	201.4	19.18	201.4	19.33	200.9	19.48	200.4	19.63	200.4	19.34	200.4	18.82	199.3	18.4
	10	9	211.6	19.18	210.5	19.33	209.4	19.48	209.4	19.63	209.4	19.26	209.4	19.03	208.4	18.47	208.4	17.97
	15	14	224.1	19.53	224.1	19.63	224.1	19.53	223.6	19.05	223.1	18.67	223.1	18.33	223.1	17.78	222	17.27
	20	19	236.1	19.49	235	19.26	234	19.04	234	18.59	234	18.15	232.9	17.82	232.9	17.31	232.9	16.81
	25	23	244.1	19.17	244.1	18.95	244.1	18.72	243.5	18.28	243	17.76	243	17.47	243	16.76	232.3	16.32
	30	28	244	18.78	244	18.53	244	18.29	243.5	17.85	243	17.39	243	17.04	239.9	16.38	223.5	15.97
	35	32	246.9	18.17	245.9	17.93	244.9	17.7	244	17.22	243	16.84	235.2	16.38	227.4	15.79	211.9	15.33
	40	36	260.5	17.67	259.5	17.42	258.6	17.16	250.8	16.63	243	16.32	235.2	15.85	227.4	15.16	211.9	14.7
	45	41	278	17.29	268.3	17.02	258.6	16.74	250.8	16.28	243	15.98	235.2	15.35	227.4	14.74	211.9	14.27
	47	**43**	289.7	16.93	274.1	16.67	258.6	16.41	250.8	15.9	**243**	**15.62**	235.2	14.94	227.4	14.3	211.9	13.75
	50	46	289.7	16.55	274.1	16.27	258.6	15.99	250.8	15.59	243	15.23	235.2	14.62	227.4	13.88	211.9	13.42
	55	51	289.7	16.18	274.1	15.89	258.6	15.61	250.8	15.13	243	14.75	235.2	14.19	227.4	13.48	211.9	13.01
	60	56	289.7	15.45	274.1	15.16	258.6	14.87	250.8	14.29	243	13.82	235.2	13.27	227.4	12.71	211.9	12.18
90	-4	-4.4	178.1	17.52	178.1	17.73	178.1	17.94	177.6	18.2	177	18.36	177	18.55	177	18.47	177	17.84
	0	-0.4	182.6	17.63	182.6	17.85	182.6	18.08	182.1	18.32	181.5	18.49	181.5	18.62	181.5	18.24	180.4	17.58
	5	4.5	200.7	18.12	200.7	18.31	200.7	18.5	200.2	18.62	199.6	18.43	199.6	17.93	199.6	17.47	199.6	16.74
	10	9	210.9	18.33	209.8	18.48	208.7	18.62	208.7	18.31	208.7	17.96	208.7	17.53	208.7	17.01	207.6	16.28
	15	14	223.4	18.62	223.4	18.45	223.4	18.08	222.9	17.77	222.3	17.17	222.3	16.83	222.3	16.38	211.5	15.74
	20	19	224.4	18.18	223.4	17.93	222.3	17.53	222.3	17.12	222.3	16.67	222.3	16.37	215.2	15.93	199.9	15.31
	25	23	225.3	17.81	225.3	17.51	225.3	17.05	223.8	16.65	222.3	16.29	215.4	15.98	208.5	15.5	193.7	14.81
	30	28	236.2	17.46	235.2	17.14	234.2	16.72	228.3	16.31	222.3	15.92	215.4	15.6	208.5	15.13	193.7	14.46
	35	32	261.9	16.9	249	16.64	236.2	16.23	229.3	15.77	222.3	15.4	215.4	15	208.5	14.48	193.7	13.86
	40	36	265.8	16.4	251	16.09	236.2	15.72	229.3	15.34	222.3	14.89	215.4	14.47	208.5	14.04	193.7	13.25
	45	41	265.8	16.06	251	15.74	236.2	15.34	229.3	14.98	222.3	14.51	215.4	14.06	208.5	13.59	193.7	12.89
	47	43	265.8	15.71	251	15.39	236.2	15	229.3	14.54	222.3	14.15	215.4	13.66	208.5	13.26	193.7	12.5
	50	46	265.8	15.4	251	15.07	236.2	14.62	229.3	14.07	222.3	13.69	215.4	13.25	208.5	12.84	193.7	12.03
	55	51	265.8	15.06	251	14.67	236.2	14.15	229.3	13.63	222.3	13.23	215.4	12.8	208.5	12.36	193.7	11.68
	60	56	265.8	14.09	251	13.68	236.2	13.2	229.3	12.72	222.3	12.31	215.4	11.88	208.5	11.45	193.7	10.88
80	-4	-4.4	176.3	15.57	176.3	15.72	176.3	15.86	176.3	16.01	176.3	16.25	176.3	16.43	175.2	16.45	175.2	16.01
	0	-0.4	180.8	15.71	180.8	15.85	180.8	16.01	180.8	16.17	180.8	16.38	179.7	16.51	179.7	16.29	179.7	15.8
	5	4.5	198.9	16.17	198.9	16.29	198.9	16.42	198.9	16.51	198.9	16.32	198.9	15.87	197.8	15.5	190.2	15.02
	10	9	199.9	16.35	199.9	16.43	199.9	16.51	199.4	16.21	198.9	15.85	198.9	15.41	194.7	15.13	181.2	14.58
	15	14	204.9	16.51	204.9	16.34	204.9	15.98	201.9	15.55	198.9	15.1	192.9	14.82	186	14.49	173	14.03
	20	19	221.8	16.33	216.8	15.88	211.8	15.44	205.4	15	198.9	14.54	192.9	14.27	186	14.03	173	13.55
	25	23	237.7	15.95	224.8	15.53	211.8	15.1	205.4	14.6	198.9	14.18	192.9	13.89	186	13.61	173	13.13
	30	28	237.7	15.59	224.8	15.18	211.8	14.7	205.4	14.22	198.9	13.81	192.9	13.48	186	13.2	173	12.66
	35	32	237.7	14.97	224.8	14.54	211.8	14.12	205.4	13.7	198.9	13.29	192.9	12.94	186	12.58	173	12.06
	40	36	237.7	14.29	224.8	13.93	211.8	13.57	205.4	13.13	198.9	12.73	192.9	12.33	186	11.97	173	11.46
	45	41	237.7	13.87	224.8	13.51	211.8	13.15	205.4	12.82	198.9	12.4	192.9	11.92	186	11.55	173	10.99
	47	43	237.7	13.47	224.8	13.12	211.8	12.77	205.4	12.4	198.9	12.04	192.9	11.54	186	11.16	173	10.65
	50	46	237.7	13.08	224.8	12.71	211.8	12.35	205.4	11.95	198.9	11.58	192.9	11.08	186	10.7	173	10.21
	55	51	237.7	12.64	224.8	12.29	211.8	11.95	205.4	11.56	198.9	11.12	192.9	10.67	186	10.38	173	9.77
	60	56	237.7	11.71	224.8	11.4	211.8	11.1	205.4	10.65	198.9	10.2	192.9	9.79	186	9.49	173	8.92

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN216BT3, ARUN216DT3 / ARUB216BT3, ARUB216DT3

216,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	177.1	15.07	176.1	15.25	175.1	15.42	172.2	15.64	169.3	15.99	163.5	16.09	158.7	16.08	148	15.83
	0	-0.4	189.6	15.47	184.8	15.59	180	15.71	174.6	15.94	169.3	16.1	163.5	16.12	158.7	16.01	148	15.69
	5	4.5	201.2	16.01	190.6	16.06	180	16.11	174.6	16.12	169.3	15.76	163.5	15.44	158.7	15.16	148	14.57
	10	9	201.2	16.06	190.6	16.09	180	16.12	174.6	15.57	169.3	15.07	163.5	14.68	158.7	14.3	148	13.49
	15	14	201.2	16.12	190.6	15.9	180	15.23	174.6	14.51	169.3	13.76	163.5	13.18	158.7	12.85	148	12.34
	20	19	201.2	15.28	190.6	14.78	180	14.19	174.6	13.6	169.3	13.14	163.5	12.64	158.7	12.31	148	11.79
	25	23	201.2	14.6	190.6	14.17	180	13.63	174.6	13.1	169.3	12.7	163.5	12.2	158.7	11.86	148	11.42
	30	28	201.2	14.06	190.6	13.65	180	13.19	174.6	12.73	169.3	12.31	163.5	11.9	158.7	11.59	148	11.05
	35	32	201.2	13.28	190.6	12.93	180	12.56	174.6	12.02	169.3	11.72	163.5	11.3	158.7	11.03	148	10.36
	40	36	201.2	12.8	190.6	12.4	180	12	174.6	11.5	169.3	11.12	163.5	10.71	158.7	10.38	148	9.77
	45	41	201.2	12.47	190.6	12.04	180	11.61	174.6	11.09	169.3	10.72	163.5	10.28	158.7	9.93	148	9.44
	47	43	201.2	12.02	190.6	11.57	180	11.12	174.6	10.68	169.3	10.32	163.5	9.85	158.7	9.55	148	8.98
	50	46	201.2	11.66	190.6	11.22	180	10.77	174.6	10.24	169.3	9.92	163.5	9.51	158.7	9.19	148	8.56
	55	51	201.2	11.36	190.6	10.87	180	10.39	174.6	9.84	169.3	9.46	163.5	9.04	158.7	8.74	148	8.12
	60	56	201.2	10.46	190.6	10	180	9.53	174.6	8.93	169.3	8.54	163.5	8.14	158.7	7.84	148	7.34
60	-4	-4.4	151.9	14.8	151.9	15.06	151.9	15.32	148.5	15.58	145.1	15.86	140.3	15.66	135.5	15.58	126.7	14.44
	0	-0.4	158.7	14.84	156.7	15.12	154.8	15.4	150	15.75	145.1	15.94	140.3	15.58	135.5	15.15	126.7	13.92
	5	4.5	172.2	15.42	163.5	15.78	154.8	16.12	150	15.4	145.1	14.26	140.3	13.72	135.5	13.21	126.7	12.15
	10	9	172.2	15.78	163.5	16.12	154.8	15.49	150	14.44	145.1	13.38	140.3	12.95	135.5	12.41	126.7	11.44
	15	14	172.2	15.64	163.5	14.94	154.8	14.27	150	13.29	145.1	12.4	140.3	11.97	135.5	11.51	126.7	10.62
	20	19	172.2	14.85	163.5	14.27	154.8	13.65	150	12.75	145.1	11.84	140.3	11.4	135.5	11.04	126.7	10.13
	25	23	172.2	14.24	163.5	13.64	154.8	13.03	150	12.14	145.1	11.32	140.3	10.86	135.5	10.5	126.7	9.68
	30	28	172.2	13.55	163.5	13	154.8	12.44	150	11.62	145.1	10.88	140.3	10.44	135.5	10.09	126.7	9.35
	35	32	172.2	12.64	163.5	12.15	154.8	11.66	150	10.92	145.1	10.21	140.3	9.83	135.5	9.48	126.7	8.74
	40	36	172.2	11.74	163.5	11.34	154.8	10.95	150	10.32	145.1	9.59	140.3	9.24	135.5	8.91	126.7	8.28
	45	41	172.2	11.26	163.5	10.84	154.8	10.43	150	9.79	145.1	9.17	140.3	8.8	135.5	8.53	126.7	7.92
	47	43	172.2	10.7	163.5	10.28	154.8	9.87	150	9.24	145.1	8.81	140.3	8.47	135.5	8.12	126.7	7.55
	50	46	172.2	10.33	163.5	9.95	154.8	9.57	150	8.99	145.1	8.43	140.3	8.21	135.5	7.84	126.7	7.35
	55	51	172.2	9.85	163.5	9.5	154.8	9.16	150	8.62	145.1	8.1	140.3	7.84	135.5	7.56	126.7	7.05
	60	56	172.2	9.29	163.5	8.95	154.8	8.62	150	8.1	145.1	7.56	140.3	7.3	135.5	7.05	126.7	6.59
50	-4	-4.4	144.2	14.95	136.4	14.84	128.7	14.72	124.8	14.21	120.9	13.7	117.1	13.19	113.2	12.67	105.5	11.63
	0	-0.4	144.2	14.75	136.4	14.71	128.7	14.2	124.8	13.72	120.9	13.25	117.1	12.73	113.2	12.24	105.5	11.27
	5	4.5	144.2	13.27	136.4	12.87	128.7	12.45	124.8	12.01	120.9	11.57	117.1	11.2	113.2	10.77	105.5	9.95
	10	9	144.2	12.43	136.4	12.08	128.7	11.72	124.8	11.31	120.9	10.9	117.1	10.54	113.2	10.17	105.5	9.37
	15	14	144.2	11.42	136.4	11.1	128.7	10.77	124.8	10.41	120.9	10.04	117.1	9.74	113.2	9.37	105.5	8.64
	20	19	144.2	10.74	136.4	10.46	128.7	10.17	124.8	9.8	120.9	9.44	117.1	9.16	113.2	8.79	105.5	8.21
	25	23	144.2	10.23	136.4	9.96	128.7	9.67	124.8	9.34	120.9	9.01	117.1	8.7	113.2	8.42	105.5	7.84
	30	28	144.2	9.85	136.4	9.54	128.7	9.22	124.8	8.93	120.9	8.64	117.1	8.34	113.2	8.06	105.5	7.48
	35	32	144.2	9.08	136.4	8.9	128.7	8.7	124.8	8.41	120.9	8.12	117.1	7.84	113.2	7.61	105.5	7.02
	40	36	144.2	8.58	136.4	8.4	128.7	8.21	124.8	7.95	120.9	7.69	117.1	7.39	113.2	7.17	105.5	6.66
	45	41	144.2	8.34	136.4	8.13	128.7	7.91	124.8	7.65	120.9	7.39	117.1	7.17	113.2	6.96	105.5	6.44
	47	43	144.2	7.96	136.4	7.76	128.7	7.56	124.8	7.37	120.9	7.18	117.1	6.82	113.2	6.61	105.5	6.16
	50	46	144.2	7.74	136.4	7.57	128.7	7.39	124.8	7.17	120.9	6.96	117.1	6.74	113.2	6.53	105.5	6.08
	55	51	144.2	7.5	136.4	7.34	128.7	7.17	124.8	6.96	120.9	6.74	117.1	6.53	113.2	6.29	105.5	5.92
	60	56	144.2	7.1	136.4	6.92	128.7	6.74	124.8	6.56	120.9	6.38	117.1	6.16	113.2	5.92	105.5	5.56

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN240BT3, ARUN240DT3 / ARUB240BT3, ARUB240DT3 Heating Capacity

240,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	201.4	16.63	201.4	17.01	201.4	17.38	200.8	17.76	200.2	18.08	200.2	18.42	200.2	18.82	198.9	19.3
	0	-0.4	206.4	16.97	206.4	17.3	206.4	17.64	205.8	17.98	205.2	18.3	205.2	18.58	204	19.03	204	19.55
	5	4.5	226.5	17.65	226.5	18.01	226.5	18.36	225.9	18.72	225.3	18.91	225.3	19.45	225.3	19.98	224.1	20.51
	10	9	237.8	17.96	236.6	18.32	235.4	18.68	235.4	19.05	235.4	19.19	234.2	19.81	234.2	20.43	234.2	20.93
	15	14	251.8	18.52	251.8	18.91	251.8	19.3	251.2	19.7	250.6	19.88	250.6	20.43	250.6	21.05	249.4	21.54
	20	19	265	19.04	263.9	19.41	262.7	19.78	262.7	20.15	262.7	20.33	261.5	20.88	261.5	21.54	261.5	21.19
	25	23	273.9	19.35	273.9	19.76	273.9	20.16	273.3	20.57	272.7	20.79	272.7	21.36	272.7	21.37	271.5	20.9
	30	28	285.8	19.69	284.6	20.1	283.4	20.51	282.8	20.92	282.2	21.19	282.2	21.54	282.2	21.07	281	20.55
	35	32	299.5	20.25	298.3	20.62	297.1	20.99	297.1	21.36	297.1	21.54	297.1	21.12	296	20.53	296	20.01
	40	36	313.8	20.83	312.6	21.12	311.4	21.33	311.4	21.54	311.4	21.19	311.4	20.5	310.3	20.01	310.3	19.42
	45	41	321.8	21.16	321.8	21.41	321.8	21.54	321.3	21.19	320.7	20.67	320.7	20.09	319.5	19.56	319.5	18.96
	47	43	331	21.42	331	21.54	331	21.12	330.4	20.71	329.9	20.24	329.9	19.65	329.9	19.07	326.4	18.5
	50	46	340.1	21.54	340.1	21.18	340.1	20.75	339.5	20.33	338.9	19.73	338.9	19.13	338.9	18.6	325.1	17.92
	55	51	351.3	21.22	350.2	20.74	349	20.26	348.5	19.79	347.9	19.29	347.9	18.66	347.9	18	323.9	17.4
	60	56	349	20.09	349	19.65	349	19.21	348.4	18.77	347.9	17.97	339.3	17.41	327.4	16.82	304.8	16.18
120	-4	-4.4	203.1	18	201.9	18.2	200.6	18.39	200	18.58	199.4	18.94	199.4	19.29	199.4	19.58	198.1	19.98
	0	-0.4	205.6	18.18	205.6	18.39	205.6	18.6	205	18.8	204.4	19.17	204.4	19.46	204.4	19.73	203.1	20.16
	5	4.5	228.2	18.79	226.9	19.04	225.7	19.28	225.1	19.53	224.5	19.77	224.5	20.17	224.5	20.43	223.3	21.04
	10	9	235.8	19.13	235.8	19.36	235.8	19.6	235.2	19.83	234.6	20.05	234.6	20.48	234.6	20.8	233.4	21.45
	15	14	252.1	19.77	250.9	20.02	249.7	20.22	249.7	20.42	249.7	20.74	248.6	21.09	248.6	21.46	247.4	21.33
	20	19	263	20.18	263	20.4	263	20.62	262.4	20.85	261.8	21.28	261.8	21.45	261.8	21.26	260.7	21.03
	25	23	274.3	20.48	273.1	20.69	271.9	20.94	271.9	21.19	271.9	21.45	270.7	21.17	270.7	20.96	270.7	20.73
	30	28	283.8	20.83	282.6	21.03	281.4	21.24	281.4	21.45	281.4	21.14	281.4	20.86	280.2	20.63	280.2	20.43
	35	32	297.5	21.12	297.5	21.29	297.5	21.45	296.9	21.01	296.3	20.67	296.3	20.33	296.3	20.1	295.2	19.87
	40	36	311.8	21.35	311.8	21.45	311.8	21.02	311.2	20.51	310.6	20.1	310.6	19.81	310.6	19.61	303.6	19.34
	45	41	321	21.45	321	21.08	321	20.66	320.4	20.16	319.9	19.76	319.9	19.41	319.9	19.21	302.5	18.95
	47	43	330.2	21.11	330.2	20.71	330.2	20.32	329.6	19.77	329	19.38	329	19.01	324.4	18.83	301.3	18.49
	50	46	331.3	20.75	330.1	20.35	329	19.96	329	19.44	329	18.96	323.5	18.56	313.4	18.43	291.1	18.07
	55	51	335.6	20.4	334.5	19.99	333.4	19.58	331.2	19.04	329	18.56	318.1	18.14	308.2	17.95	286.3	17.58
	60	56	354.9	19.5	352.4	19.1	349.9	18.7	339.5	17.96	329	17.3	318.1	16.76	308.2	16.51	286.3	16.04
110	-4	-4.4	200.8	19.43	199.5	19.58	198.3	19.72	198.3	19.86	198.3	20.1	198.3	20.34	197	20.69	197	21.02
	0	-0.4	205.8	19.6	204.5	19.76	203.3	19.91	203.3	20.07	203.3	20.33	202.1	20.62	202.1	20.92	202.1	21.25
	5	4.5	225.9	20.21	224.6	20.4	223.4	20.59	223.4	20.75	223.4	20.97	223.4	21.22	222.2	21.67	222.2	21.54
	10	9	234.7	20.5	234.7	20.71	234.7	20.91	234.1	21.09	233.5	21.28	233.5	21.67	233.5	21.53	232.3	21.19
	15	14	251.1	20.93	249.9	21.19	248.7	21.46	248.7	21.68	248.7	21.56	248.7	21.38	247.5	21.09	247.5	20.66
	20	19	262	21.35	262	21.68	262	21.4	261.4	21.23	260.8	21.05	260.8	20.88	260.8	20.59	259.6	20.13
	25	23	273.2	21.68	272	21.26	270.8	21	270.8	20.83	270.8	20.66	270.8	20.45	269.6	20.19	269.6	19.76
	30	28	281.5	21.28	281.5	20.88	281.5	20.63	280.9	20.4	280.3	20.24	280.3	20.03	280.3	19.79	279.1	19.36
	35	32	295.2	20.6	295.2	20.34	295.2	20.08	295.2	19.82	295.2	19.67	294.1	19.46	294.1	19.18	280.1	18.73
	40	36	296.4	20.03	296.4	19.77	296.4	19.51	295.8	19.26	295.2	19.1	295.2	18.84	285.3	18.57	266.4	18.2
	45	41	298.5	19.69	297.4	19.42	296.3	19.16	295.8	18.89	295.2	18.68	285.6	18.46	275.9	18.24	257.7	17.74
	47	43	308.1	19.28	307.1	19.03	306	18.78	300.6	18.49	295.2	18.29	285.6	18.06	275.9	17.83	257.7	17.28
	50	46	318.9	18.83	316.7	18.58	314.6	18.33	304.9	18.09	295.2	17.77	285.6	17.57	275.9	17.27	257.7	16.8
	55	51	338.2	18.44	326.4	18.15	314.6	17.87	304.9	17.59	295.2	17.27	285.6	17.08	275.9	16.83	257.7	16.32
	60	56	351.1	17.11	332.8	16.95	314.6	16.79	304.9	16.63	295.2	16.3	285.6	16.11	275.9	15.81	257.7	15.39

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN240BT3, ARUN240DT3 / ARUB240BT3, ARUB240DT3

240,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	198.7	20.43	198.7	20.59	198.7	20.74	198.1	20.9	197.5	21.09	197.5	21.43	197.5	21.6	196.2	21.57
	0	-0.4	205	20.57	203.7	20.76	202.5	20.96	202.5	21.15	202.5	21.31	202.5	21.58	201.3	21.75	201.3	21.31
	5	4.5	223.8	21.07	223.8	21.24	223.8	21.41	223.2	21.58	222.6	21.75	222.6	21.42	222.6	20.85	221.4	20.38
	10	9	235.1	21.24	233.9	21.41	232.7	21.58	232.7	21.75	232.7	21.33	232.7	21.08	231.5	20.46	231.5	19.9
	15	14	249.1	21.63	249.1	21.75	249.1	21.63	248.5	21.1	247.9	20.67	247.9	20.31	247.9	19.69	246.7	19.13
	20	19	262.3	21.58	261.1	21.34	259.9	21.09	259.9	20.59	259.9	20.1	258.8	19.74	258.8	19.17	258.8	18.61
	25	23	271.2	21.24	271.2	20.99	271.2	20.74	270.6	20.24	270	19.67	270	19.34	270	18.56	258.2	18.07
	30	28	271.1	20.8	271.1	20.53	271.1	20.26	270.6	19.77	270	19.26	270	18.87	266.6	18.14	248.4	17.69
	35	32	274.3	20.12	273.2	19.86	272.2	19.6	271.1	19.07	270	18.65	261.4	18.14	252.7	17.49	235.4	16.98
	40	36	289.4	19.57	288.4	19.29	287.3	19.01	278.6	18.42	270	18.08	261.4	17.56	252.7	16.79	235.4	16.29
	45	41	308.9	19.15	298.1	18.85	287.3	18.55	278.6	18.03	270	17.7	261.4	17	252.7	16.33	235.4	15.8
	47	**43**	321.8	18.75	304.6	18.46	287.3	18.18	278.6	17.61	**270**	**17.3**	261.4	16.55	252.7	15.84	235.4	15.23
	50	46	321.8	18.33	304.6	18.02	287.3	17.71	278.6	17.26	270	16.87	261.4	16.19	252.7	15.37	235.4	14.86
	55	51	321.8	17.92	304.6	17.6	287.3	17.29	278.6	16.76	270	16.33	261.4	15.72	252.7	14.93	235.4	14.41
	60	56	321.8	17.11	304.6	16.79	287.3	16.47	278.6	15.83	270	15.31	261.4	14.7	252.7	14.08	235.4	13.49
90	-4	-4.4	197.9	19.41	197.9	19.64	197.9	19.87	197.3	20.16	196.7	20.33	196.7	20.54	196.7	20.45	196.7	19.75
	0	-0.4	202.9	19.53	202.9	19.77	202.9	20.02	202.3	20.3	201.7	20.47	201.7	20.62	201.7	20.2	200.4	19.47
	5	4.5	223	20.06	223	20.28	223	20.49	222.4	20.62	221.8	20.41	221.8	19.85	221.8	19.35	221.8	18.54
	10	9	234.3	20.3	233.1	20.47	231.9	20.63	231.9	20.28	231.9	19.9	231.9	19.41	231.9	18.84	230.7	18.03
	15	14	248.2	20.62	248.2	20.43	248.2	20.03	247.6	19.68	247	19.01	247	18.64	247	18.14	235.1	17.43
	20	19	249.3	20.14	248.2	19.86	247	19.41	247	18.96	247	18.46	247	18.13	239.1	17.65	222.1	16.95
	25	23	250.3	19.72	250.3	19.39	250.3	18.88	248.7	18.44	247	18.04	239.4	17.7	231.7	17.17	215.2	16.4
	30	28	262.4	19.34	261.3	18.98	260.2	18.52	253.6	18.06	247	17.63	239.4	17.27	231.7	16.75	215.2	16.02
	35	32	291	18.72	276.7	18.42	262.4	17.97	254.7	17.46	247	17.06	239.4	16.61	231.7	16.04	215.2	15.35
	40	36	295.4	18.17	278.9	17.83	262.4	17.41	254.7	16.99	247	16.49	239.4	16.03	231.7	15.55	215.2	14.68
	45	41	295.4	17.78	278.9	17.44	262.4	16.99	254.7	16.59	247	16.07	239.4	15.57	231.7	15.05	215.2	14.28
	47	43	295.4	17.4	278.9	17.04	262.4	16.61	254.7	16.1	247	15.67	239.4	15.13	231.7	14.68	215.2	13.85
	50	46	295.4	17.06	278.9	16.69	262.4	16.19	254.7	15.58	247	15.16	239.4	14.68	231.7	14.22	215.2	13.32
	55	51	295.4	16.68	278.9	16.25	262.4	15.68	254.7	15.1	247	14.65	239.4	14.18	231.7	13.69	215.2	12.94
	60	56	295.4	15.6	278.9	15.15	262.4	14.62	254.7	14.09	247	13.63	239.4	13.16	231.7	12.68	215.2	12.05
80	-4	-4.4	195.9	17.25	195.9	17.41	195.9	17.57	195.9	17.73	195.9	17.99	195.9	18.2	194.6	18.22	194.6	17.73
	0	-0.4	200.9	17.4	200.9	17.55	200.9	17.73	200.9	17.91	200.9	18.14	199.6	18.29	199.6	18.05	199.6	17.5
	5	4.5	221	17.91	221	18.04	221	18.18	221	18.29	221	18.08	221	17.58	219.8	17.16	211.3	16.64
	10	9	222.2	18.11	222.2	18.2	222.2	18.29	221.6	17.95	221	17.56	221	17.07	216.4	16.76	201.3	16.15
	15	14	227.6	18.29	227.6	18.1	227.6	17.7	224.3	17.23	221	16.73	214.4	16.42	206.6	16.05	192.3	15.54
	20	19	246.4	18.08	240.9	17.59	235.4	17.1	228.2	16.61	221	16.11	214.4	15.8	206.6	15.54	192.3	15.01
	25	23	264.1	17.67	249.7	17.2	235.4	16.72	228.2	16.17	221	15.71	214.4	15.38	206.6	15.08	192.3	14.54
	30	28	264.1	17.27	249.7	16.81	235.4	16.28	228.2	15.75	221	15.29	214.4	14.93	206.6	14.62	192.3	14.02
	35	32	264.1	16.58	249.7	16.11	235.4	15.64	228.2	15.17	221	14.72	214.4	14.33	206.6	13.93	192.3	13.36
	40	36	264.1	15.83	249.7	15.43	235.4	15.03	228.2	14.54	221	14.1	214.4	13.66	206.6	13.26	192.3	12.69
	45	41	264.1	15.36	249.7	14.96	235.4	14.57	228.2	14.2	221	13.74	214.4	13.2	206.6	12.79	192.3	12.17
	47	43	264.1	14.92	249.7	14.53	235.4	14.15	228.2	13.74	221	13.33	214.4	12.78	206.6	12.36	192.3	11.8
	50	46	264.1	14.49	249.7	14.08	235.4	13.68	228.2	13.24	221	12.82	214.4	12.27	206.6	11.86	192.3	11.3
	55	51	264.1	14	249.7	13.62	235.4	13.23	228.2	12.81	221	12.31	214.4	11.82	206.6	11.49	192.3	10.83
	60	56	264.1	12.97	249.7	12.63	235.4	12.29	228.2	11.79	221	11.3	214.4	10.85	206.6	10.51	192.3	9.88

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN240BT3, ARUN240DT3 / ARUB240BT3, ARUB240DT3 Heating Capacity

240,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	-4	-4.4	196.7	16.69	195.7	16.88	194.6	17.08	191.4	17.32	188.1	17.71	181.7	17.82	176.3	17.81	164.5	17.53
	0	-0.4	210.7	17.14	205.3	17.27	200	17.39	194	17.65	188.1	17.84	181.7	17.85	176.3	17.73	164.5	17.38
	5	4.5	223.6	17.73	211.8	17.78	200	17.84	194	17.86	188.1	17.46	181.7	17.1	176.3	16.8	164.5	16.14
	10	9	223.6	17.78	211.8	17.82	200	17.85	194	17.25	188.1	16.69	181.7	16.26	176.3	15.84	164.5	14.94
	15	14	223.6	17.85	211.8	17.61	200	16.87	194	16.07	188.1	15.24	181.7	14.6	176.3	14.24	164.5	13.66
	20	19	223.6	16.92	211.8	16.37	200	15.72	194	15.07	188.1	14.55	181.7	14	176.3	13.63	164.5	13.06
	25	23	223.6	16.18	211.8	15.69	200	15.1	194	14.51	188.1	14.06	181.7	13.51	176.3	13.14	164.5	12.64
	30	28	223.6	15.57	211.8	15.12	200	14.61	194	14.1	188.1	13.63	181.7	13.18	176.3	12.84	164.5	12.24
	35	32	223.6	14.71	211.8	14.32	200	13.91	194	13.32	188.1	12.98	181.7	12.52	176.3	12.21	164.5	11.47
	40	36	223.6	14.18	211.8	13.74	200	13.29	194	12.74	188.1	12.32	181.7	11.86	176.3	11.5	164.5	10.82
	45	41	223.6	13.82	211.8	13.34	200	12.86	194	12.28	188.1	11.87	181.7	11.39	176.3	11	164.5	10.45
	47	43	223.6	13.31	211.8	12.81	200	12.32	194	11.83	188.1	11.43	181.7	10.91	176.3	10.58	164.5	9.95
	50	46	223.6	12.91	211.8	12.42	200	11.93	194	11.34	188.1	10.99	181.7	10.53	176.3	10.17	164.5	9.48
	55	51	223.6	12.58	211.8	12.04	200	11.51	194	10.9	188.1	10.48	181.7	10.01	176.3	9.68	164.5	8.99
	60	56	223.6	11.59	211.8	11.07	200	10.56	194	9.89	188.1	9.46	181.7	9.02	176.3	8.68	164.5	8.13
60	-4	-4.4	168.8	16.39	168.8	16.68	168.8	16.97	165	17.25	161.3	17.56	155.9	17.35	150.5	17.25	140.8	15.99
	0	-0.4	176.3	16.43	174.2	16.75	172	17.06	166.6	17.44	161.3	17.66	155.9	17.25	150.5	16.78	140.8	15.41
	5	4.5	191.4	17.08	181.7	17.47	172	17.85	166.6	17.06	161.3	15.8	155.9	15.2	150.5	14.63	140.8	13.46
	10	9	191.4	17.47	181.7	17.85	172	17.16	166.6	15.99	161.3	14.82	155.9	14.34	150.5	13.74	140.8	12.67
	15	14	191.4	17.32	181.7	16.54	172	15.8	166.6	14.72	161.3	13.74	155.9	13.26	150.5	12.75	140.8	11.77
	20	19	191.4	16.45	181.7	15.8	172	15.12	166.6	14.12	161.3	13.11	155.9	12.62	150.5	12.23	140.8	11.23
	25	23	191.4	15.78	181.7	15.1	172	14.43	166.6	13.45	161.3	12.54	155.9	12.02	150.5	11.63	140.8	10.72
	30	28	191.4	15.01	181.7	14.39	172	13.78	166.6	12.87	161.3	12.06	155.9	11.56	150.5	11.17	140.8	10.36
	35	32	191.4	14	181.7	13.45	172	12.91	166.6	12.1	161.3	11.31	155.9	10.89	150.5	10.49	140.8	9.68
	40	36	191.4	13	181.7	12.56	172	12.13	166.6	11.43	161.3	10.62	155.9	10.23	150.5	9.87	140.8	9.17
	45	41	191.4	12.47	181.7	12.01	172	11.55	166.6	10.84	161.3	10.16	155.9	9.74	150.5	9.45	140.8	8.77
	47	43	191.4	11.85	181.7	11.39	172	10.93	166.6	10.24	161.3	9.76	155.9	9.38	150.5	9	140.8	8.37
	50	46	191.4	11.44	181.7	11.02	172	10.6	166.6	9.95	161.3	9.34	155.9	9.09	150.5	8.68	140.8	8.14
	55	51	191.4	10.9	181.7	10.52	172	10.14	166.6	9.54	161.3	8.97	155.9	8.69	150.5	8.38	140.8	7.8
	60	56	191.4	10.29	181.7	9.92	172	9.54	166.6	8.97	161.3	8.38	155.9	8.09	150.5	7.8	140.8	7.3
50	-4	-4.4	160.2	16.55	151.6	16.43	143	16.3	138.7	15.74	134.4	15.18	130.1	14.6	125.8	14.03	117.2	12.89
	0	-0.4	160.2	16.33	151.6	16.29	143	15.73	138.7	15.2	134.4	14.68	130.1	14.1	125.8	13.55	117.2	12.48
	5	4.5	160.2	14.7	151.6	14.25	143	13.79	138.7	13.3	134.4	12.81	130.1	12.41	125.8	11.93	117.2	11.02
	10	9	160.2	13.76	151.6	13.38	143	12.98	138.7	12.53	134.4	12.07	130.1	11.67	125.8	11.26	117.2	10.38
	15	14	160.2	12.65	151.6	12.3	143	11.93	138.7	11.53	134.4	11.12	130.1	10.79	125.8	10.38	117.2	9.57
	20	19	160.2	11.89	151.6	11.58	143	11.26	138.7	10.86	134.4	10.45	130.1	10.14	125.8	9.74	117.2	9.09
	25	23	160.2	11.33	151.6	11.03	143	10.71	138.7	10.34	134.4	9.97	130.1	9.64	125.8	9.33	117.2	8.69
	30	28	160.2	10.91	151.6	10.57	143	10.21	138.7	9.89	134.4	9.57	130.1	9.23	125.8	8.92	117.2	8.28
	35	32	160.2	10.06	151.6	9.86	143	9.64	138.7	9.32	134.4	9	130.1	8.69	125.8	8.42	117.2	7.78
	40	36	160.2	9.5	151.6	9.3	143	9.09	138.7	8.81	134.4	8.52	130.1	8.18	125.8	7.95	117.2	7.37
	45	41	160.2	9.24	151.6	9	143	8.76	138.7	8.47	134.4	8.18	130.1	7.95	125.8	7.71	117.2	7.13
	47	43	160.2	8.81	151.6	8.6	143	8.37	138.7	8.16	134.4	7.95	130.1	7.55	125.8	7.32	117.2	6.83
	50	46	160.2	8.57	151.6	8.38	143	8.18	138.7	7.95	134.4	7.71	130.1	7.47	125.8	7.23	117.2	6.73
	55	51	160.2	8.3	151.6	8.13	143	7.95	138.7	7.71	134.4	7.47	130.1	7.23	125.8	6.97	117.2	6.56
	60	56	160.2	7.86	151.6	7.67	143	7.47	138.7	7.27	134.4	7.06	130.1	6.82	125.8	6.56	117.2	6.16

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN264BT3, ARUN264DT3 / ARUB264BT3, ARUB264DT3

264,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	-4	-4.4	221.6	18.37	221.6	18.79	221.6	19.2	220.9	19.62	220.2	19.97	220.2	20.35	220.2	20.79	218.8	21.32
	0	-0.4	227.1	18.74	227.1	19.11	227.1	19.49	226.4	19.86	225.7	20.22	225.7	20.52	224.4	21.02	224.4	21.59
	5	4.5	249.2	19.5	249.2	19.89	249.2	20.29	248.5	20.68	247.9	20.89	247.9	21.48	247.9	22.07	246.5	22.66
	10	9	261.6	19.83	260.3	20.24	259	20.64	259	21.04	259	21.19	257.6	21.88	257.6	22.56	257.6	23.12
	15	14	276.9	20.45	276.9	20.89	276.9	21.32	276.3	21.76	275.6	21.96	275.6	22.57	275.6	23.26	274.3	23.79
	20	19	291.5	21.03	290.2	21.44	288.9	21.85	288.9	22.26	288.9	22.45	287.6	23.07	287.6	23.79	287.6	23.41
	25	23	301.3	21.37	301.3	21.82	301.3	22.27	300.6	22.72	300	22.97	300	23.6	300	23.6	298.7	23.09
	30	28	314.3	21.75	313	22.2	311.8	22.66	311.1	23.11	310.5	23.41	310.5	23.79	310.5	23.28	309.2	22.7
	35	32	329.4	22.37	328.2	22.78	326.9	23.19	326.9	23.6	326.9	23.79	326.9	23.33	325.6	22.68	325.6	22.1
	40	36	345.1	23.01	343.8	23.33	342.6	23.56	342.6	23.79	342.6	23.41	342.6	22.65	341.3	22.11	341.3	21.45
	45	41	354	23.37	354	23.65	354	23.79	353.4	23.41	352.8	22.84	352.8	22.19	351.5	21.61	351.5	20.94
	47	43	364.1	23.66	364.1	23.79	364.1	23.33	363.5	22.87	362.8	22.36	362.8	21.71	362.8	21.06	359	20.43
	50	46	374.1	23.79	374.1	23.39	374.1	22.92	373.5	22.45	372.8	21.8	372.8	21.13	372.8	20.55	357.7	19.79
	55	51	386.5	23.44	385.2	22.91	383.9	22.38	383.3	21.86	382.7	21.31	382.7	20.61	382.7	19.88	356.2	19.22
	60	56	383.9	22.19	383.9	21.7	383.9	21.22	383.3	20.73	382.7	19.86	373.2	19.23	360.2	18.58	335.3	17.87
120	-4	-4.4	223.4	19.89	222	20.1	220.7	20.31	220	20.53	219.3	20.93	219.3	21.31	219.3	21.63	217.9	22.07
	0	-0.4	226.2	20.08	226.2	20.31	226.2	20.54	225.5	20.77	224.8	21.17	224.8	21.5	224.8	21.79	223.5	22.27
	5	4.5	251	20.75	249.6	21.03	248.3	21.3	247.6	21.58	247	21.84	247	22.28	247	22.56	245.6	23.24
	10	9	259.4	21.13	259.4	21.39	259.4	21.65	258.7	21.91	258.1	22.15	258.1	22.63	258.1	22.98	256.7	23.7
	15	14	277.3	21.84	276	22.12	274.7	22.34	274.7	22.56	274.7	22.91	273.4	23.3	273.4	23.7	272.1	23.57
	20	19	289.3	22.29	289.3	22.54	289.3	22.78	288.7	23.03	288	23.51	288	23.7	288	23.49	286.7	23.23
	25	23	301.7	22.63	300.4	22.86	299.1	23.13	299.1	23.41	299.1	23.7	297.8	23.38	297.8	23.15	297.8	22.89
	30	28	312.1	23	310.8	23.24	309.5	23.47	309.5	23.7	309.5	23.35	309.5	23.05	308.2	22.79	308.2	22.56
	35	32	327.2	23.33	327.2	23.51	327.2	23.7	326.6	23.21	326	22.84	326	22.45	326	22.2	324.7	21.95
	40	36	342.9	23.58	342.9	23.7	342.9	23.21	342.3	22.66	341.7	22.21	341.7	21.88	341.7	21.66	334	21.36
	45	41	353.1	23.7	353.1	23.29	353.1	22.82	352.5	22.26	351.8	21.82	351.8	21.44	351.8	21.22	332.7	20.93
	47	43	363.2	23.31	363.2	22.88	363.2	22.44	362.6	21.83	361.9	21.4	361.9	20.99	356.9	20.8	331.5	20.42
	50	46	364.4	22.92	363.2	22.48	361.9	22.04	361.9	21.47	361.9	20.94	355.8	20.5	344.8	20.36	320.2	19.96
	55	51	369.2	22.53	368	22.08	366.8	21.63	364.3	21.04	361.9	20.51	349.9	20.04	339	19.83	314.9	19.42
	60	56	390.4	21.53	387.6	21.09	384.9	20.65	373.4	19.83	361.9	19.11	349.9	18.51	339	18.23	314.9	17.72
110	-4	-4.4	220.8	21.47	219.5	21.63	218.1	21.78	218.1	21.94	218.1	22.21	218.1	22.47	216.8	22.86	216.8	23.22
	0	-0.4	226.3	21.65	225	21.82	223.6	22	223.6	22.17	223.6	22.45	222.3	22.78	222.3	23.11	222.3	23.48
	5	4.5	248.4	22.32	247.1	22.53	245.8	22.75	245.8	22.93	245.8	23.16	245.8	23.44	244.4	23.94	244.4	23.8
	10	9	258.2	22.65	258.2	22.87	258.2	23.1	257.5	23.29	256.9	23.5	256.9	23.94	256.9	23.79	255.5	23.41
	15	14	276.2	23.12	274.8	23.41	273.5	23.7	273.5	23.94	273.5	23.81	273.5	23.62	272.2	23.3	272.2	22.82
	20	19	288.1	23.58	288.1	23.94	288.1	23.64	287.5	23.45	286.8	23.26	286.8	23.07	286.8	22.74	285.5	22.23
	25	23	300.5	23.94	299.2	23.49	297.9	23.2	297.9	23.01	297.9	22.82	297.9	22.59	296.6	22.31	296.6	21.83
	30	28	309.7	23.51	309.7	23.07	309.7	22.78	309	22.54	308.4	22.36	308.4	22.13	308.4	21.86	307.1	21.38
	35	32	324.8	22.75	324.8	22.47	324.8	22.18	324.8	21.89	324.8	21.73	323.5	21.5	323.5	21.18	308.1	20.68
	40	36	326	22.13	326	21.84	326	21.56	325.4	21.27	324.8	21.1	324.8	20.81	313.8	20.51	293	20.1
	45	41	328.3	21.75	327.1	21.46	326	21.16	325.4	20.87	324.8	20.64	314.1	20.39	303.5	20.15	283.4	19.6
	47	43	338.9	21.3	337.8	21.02	336.6	20.74	330.7	20.43	324.8	20.2	314.1	19.95	303.5	19.7	283.4	19.09
	50	46	350.8	20.8	348.4	20.52	346	20.25	335.4	19.99	324.8	19.63	314.1	19.41	303.5	19.07	283.4	18.56
	55	51	372	20.36	359	20.05	346	19.74	335.4	19.43	324.8	19.07	314.1	18.87	303.5	18.59	283.4	18.02
	60	56	386.2	18.9	366.1	18.72	346	18.55	335.4	18.37	324.8	18	314.1	17.79	303.5	17.46	283.4	17

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN264BT3, ARUN264DT3 / ARUB264BT3, ARUB264DT3 Heating Capacity

264,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	218.6	22.57	218.6	22.74	218.6	22.91	217.9	23.08	217.2	23.3	217.2	23.67	217.2	23.86	215.9	23.83
	0	-0.4	225.5	22.73	224.1	22.94	222.7	23.15	222.7	23.36	222.7	23.54	222.7	23.84	221.4	24.02	221.4	23.54
	5	4.5	246.2	23.28	246.2	23.46	246.2	23.65	245.5	23.84	244.9	24.02	244.9	23.66	244.9	23.03	243.5	22.51
	10	9	258.6	23.46	257.3	23.65	256	23.83	256	24.02	256	23.56	256	23.28	254.7	22.6	254.7	21.98
	15	14	274	23.89	274	24.02	274	23.9	273.3	23.31	272.6	22.84	272.6	22.43	272.6	21.76	271.3	21.13
	20	19	288.6	23.84	287.2	23.57	285.9	23.29	285.9	22.74	285.9	22.21	284.6	21.8	284.6	21.18	284.6	20.56
	25	23	298.3	23.46	298.3	23.18	298.3	22.91	297.7	22.36	297	21.73	297	21.37	297	20.5	284	19.96
	30	28	298.3	22.97	298.3	22.68	298.3	22.38	297.6	21.84	297	21.27	297	20.85	293.2	20.04	273.2	19.54
	35	32	301.8	22.23	300.6	21.94	299.4	21.65	298.2	21.07	297	20.6	287.5	20.03	278	19.31	259	18.76
	40	36	318.4	21.62	317.2	21.31	316	20.99	306.5	20.35	297	19.97	287.5	19.4	278	18.54	259	17.99
	45	41	339.8	21.15	327.9	20.82	316	20.49	306.5	19.92	297	19.55	287.5	18.78	278	18.03	259	17.46
	47	**43**	354	20.71	335	20.39	316	20.08	306.5	19.45	**297**	**19.11**	287.5	18.28	278	17.49	259	16.82
	50	46	354	20.24	335	19.9	316	19.56	306.5	19.07	297	18.63	287.5	17.88	278	16.98	259	16.41
	55	51	354	19.79	335	19.44	316	19.09	306.5	18.51	297	18.04	287.5	17.36	278	16.5	259	15.92
	60	56	354	18.9	335	18.55	316	18.19	306.5	17.49	297	16.91	287.5	16.24	278	15.55	259	14.9
90	-4	-4.4	217.7	21.44	217.7	21.69	217.7	21.94	217	22.27	216.3	22.46	216.3	22.69	216.3	22.59	216.3	21.82
	0	-0.4	223.2	21.57	223.2	21.84	223.2	22.11	222.5	22.42	221.8	22.62	221.8	22.78	221.8	22.31	220.5	21.51
	5	4.5	245.3	22.16	245.3	22.4	245.3	22.63	244.7	22.78	244	22.55	244	21.93	244	21.38	244	20.48
	10	9	257.7	22.43	256.4	22.61	255.1	22.79	255.1	22.4	255.1	21.98	255.1	21.44	255.1	20.81	253.8	19.92
	15	14	273.1	22.78	273.1	22.57	273.1	22.13	272.4	21.74	271.7	21	271.7	20.59	271.7	20.04	258.6	19.26
	20	19	274.2	22.24	273	21.94	271.7	21.44	271.7	20.94	271.7	20.39	271.7	20.03	263	19.49	244.3	18.73
	25	23	275.4	21.79	275.4	21.42	275.4	20.86	273.6	20.37	271.7	19.93	263.3	19.55	254.8	18.97	236.7	18.12
	30	28	288.7	21.36	287.4	20.96	286.2	20.46	279	19.95	271.7	19.47	263.3	19.08	254.8	18.51	236.7	17.7
	35	32	320.1	20.68	304.4	20.35	288.7	19.85	280.2	19.29	271.7	18.84	263.3	18.35	254.8	17.72	236.7	16.96
	40	36	324.9	20.07	306.8	19.69	288.7	19.23	280.2	18.76	271.7	18.21	263.3	17.71	254.8	17.17	236.7	16.22
	45	41	324.9	19.65	306.8	19.26	288.7	18.77	280.2	18.33	271.7	17.75	263.3	17.2	254.8	16.63	236.7	15.77
	47	43	324.9	19.22	306.8	18.82	288.7	18.35	280.2	17.78	271.7	17.31	263.3	16.72	254.8	16.22	236.7	15.29
	50	46	324.9	18.84	306.8	18.44	288.7	17.89	280.2	17.21	271.7	16.74	263.3	16.22	254.8	15.7	236.7	14.72
	55	51	324.9	18.42	306.8	17.95	288.7	17.32	280.2	16.68	271.7	16.18	263.3	15.67	254.8	15.12	236.7	14.3
	60	56	324.9	17.24	306.8	16.74	288.7	16.15	280.2	15.56	271.7	15.06	263.3	14.53	254.8	14.01	236.7	13.31
80	-4	-4.4	215.4	19.05	215.4	19.23	215.4	19.41	215.4	19.59	215.4	19.88	215.4	20.1	214.1	20.13	214.1	19.59
	0	-0.4	221	19.22	221	19.39	221	19.58	221	19.78	221	20.04	219.6	20.2	219.6	19.93	219.6	19.33
	5	4.5	243.1	19.78	243.1	19.93	243.1	20.08	243.1	20.2	243.1	19.97	243.1	19.42	241.8	18.96	232.4	18.38
	10	9	244.4	20	244.4	20.1	244.4	20.2	243.7	19.83	243.1	19.4	243.1	18.85	238	18.51	221.5	17.84
	15	14	250.4	20.2	250.4	19.99	250.4	19.56	246.7	19.03	243.1	18.48	235.8	18.13	227.3	17.73	211.5	17.16
	20	19	271.1	19.97	265	19.43	258.9	18.89	251	18.35	243.1	17.79	235.8	17.46	227.3	17.17	211.5	16.58
	25	23	290.5	19.52	274.7	19	258.9	18.47	251	17.86	243.1	17.35	235.8	16.99	227.3	16.65	211.5	16.06
	30	28	290.5	19.07	274.7	18.57	258.9	17.98	251	17.4	243.1	16.89	235.8	16.49	227.3	16.15	211.5	15.49
	35	32	290.5	18.31	274.7	17.79	258.9	17.28	251	16.76	243.1	16.26	235.8	15.83	227.3	15.39	211.5	14.76
	40	36	290.5	17.49	274.7	17.05	258.9	16.61	251	16.07	243.1	15.57	235.8	15.08	227.3	14.64	211.5	14.02
	45	41	290.5	16.97	274.7	16.53	258.9	16.09	251	15.68	243.1	15.17	235.8	14.58	227.3	14.13	211.5	13.45
	47	43	290.5	16.48	274.7	16.05	258.9	15.63	251	15.17	243.1	14.73	235.8	14.11	227.3	13.65	211.5	13.03
	50	46	290.5	16	274.7	15.56	258.9	15.11	251	14.63	243.1	14.16	235.8	13.55	227.3	13.1	211.5	12.49
	55	51	290.5	15.46	274.7	15.04	258.9	14.62	251	14.15	243.1	13.6	235.8	13.05	227.3	12.69	211.5	11.96
	60	56	290.5	14.33	274.7	13.95	258.9	13.57	251	13.03	243.1	12.48	235.8	11.98	227.3	11.61	211.5	10.91

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN264BT3, ARUN264DT3 / ARUB264BT3, ARUB264DT3

264,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	216.4	18.44	215.2	18.65	214	18.87	210.5	19.13	206.9	19.56	199.8	19.69	193.9	19.67	180.9	19.37
	0	-0.4	231.8	18.93	225.9	19.07	219.9	19.21	213.4	19.5	206.9	19.7	199.8	19.72	193.9	19.58	180.9	19.2
	5	4.5	246	19.59	233	19.65	219.9	19.71	213.4	19.72	206.9	19.28	199.8	18.89	193.9	18.55	180.9	17.83
	10	9	246	19.64	233	19.68	219.9	19.72	213.4	19.05	206.9	18.44	199.8	17.96	193.9	17.5	180.9	16.5
	15	14	246	19.72	233	19.45	219.9	18.64	213.4	17.75	206.9	16.84	199.8	16.12	193.9	15.72	180.9	15.09
	20	19	246	18.69	233	18.08	219.9	17.36	213.4	16.64	206.9	16.07	199.8	15.47	193.9	15.06	180.9	14.43
	25	23	246	17.87	233	17.34	219.9	16.68	213.4	16.03	206.9	15.54	199.8	14.92	193.9	14.51	180.9	13.97
	30	28	246	17.2	233	16.7	219.9	16.14	213.4	15.57	206.9	15.06	199.8	14.56	193.9	14.18	180.9	13.52
	35	32	246	16.24	233	15.82	219.9	15.36	213.4	14.71	206.9	14.33	199.8	13.83	193.9	13.49	180.9	12.67
	40	36	246	15.66	233	15.17	219.9	14.68	213.4	14.07	206.9	13.61	199.8	13.1	193.9	12.7	180.9	11.96
	45	41	246	15.26	233	14.73	219.9	14.21	213.4	13.57	206.9	13.11	199.8	12.58	193.9	12.15	180.9	11.55
	47	43	246	14.7	233	14.16	219.9	13.61	213.4	13.06	206.9	12.62	199.8	12.05	193.9	11.69	180.9	10.99
	50	46	246	14.26	233	13.72	219.9	13.18	213.4	12.53	206.9	12.14	199.8	11.64	193.9	11.24	180.9	10.47
	55	51	246	13.89	233	13.3	219.9	12.71	213.4	12.04	206.9	11.58	199.8	11.06	193.9	10.69	180.9	9.93
	60	56	246	12.8	233	12.23	219.9	11.66	213.4	10.93	206.9	10.45	199.8	9.96	193.9	9.59	180.9	8.98
60	-4	-4.4	185.7	18.11	185.7	18.42	185.7	18.74	181.5	19.06	177.4	19.4	171.5	19.16	165.6	19.06	154.9	17.66
	0	-0.4	193.9	18.15	191.6	18.5	189.2	18.85	183.3	19.27	177.4	19.51	171.5	19.06	165.6	18.53	154.9	17.03
	5	4.5	210.5	18.86	199.8	19.3	189.2	19.72	183.3	18.85	177.4	17.45	171.5	16.79	165.6	16.16	154.9	14.87
	10	9	210.5	19.3	199.8	19.72	189.2	18.95	183.3	17.66	177.4	16.37	171.5	15.84	165.6	15.18	154.9	14
	15	14	210.5	19.13	199.8	18.27	189.2	17.45	183.3	16.26	177.4	15.17	171.5	14.64	165.6	14.09	154.9	13
	20	19	210.5	18.17	199.8	17.46	189.2	16.7	183.3	15.59	177.4	14.48	171.5	13.94	165.6	13.51	154.9	12.4
	25	23	210.5	17.43	199.8	16.68	189.2	15.94	183.3	14.85	177.4	13.85	171.5	13.28	165.6	12.85	154.9	11.85
	30	28	210.5	16.58	199.8	15.9	189.2	15.22	183.3	14.21	177.4	13.32	171.5	12.77	165.6	12.34	154.9	11.44
	35	32	210.5	15.46	199.8	14.86	189.2	14.27	183.3	13.37	177.4	12.49	171.5	12.03	165.6	11.59	154.9	10.69
	40	36	210.5	14.36	199.8	13.88	189.2	13.4	183.3	12.63	177.4	11.73	171.5	11.3	165.6	10.9	154.9	10.13
	45	41	210.5	13.77	199.8	13.26	189.2	12.75	183.3	11.97	177.4	11.22	171.5	10.76	165.6	10.44	154.9	9.69
	47	43	210.5	13.09	199.8	12.58	189.2	12.07	183.3	11.31	177.4	10.78	171.5	10.36	165.6	9.94	154.9	9.24
	50	46	210.5	12.64	199.8	12.18	189.2	11.71	183.3	11	177.4	10.31	171.5	10.04	165.6	9.59	154.9	9
	55	51	210.5	12.05	199.8	11.62	189.2	11.2	183.3	10.54	177.4	9.91	171.5	9.59	165.6	9.25	154.9	8.62
	60	56	210.5	11.36	199.8	10.95	189.2	10.54	183.3	9.91	177.4	9.25	171.5	8.94	165.6	8.62	154.9	8.07
50	-4	-4.4	176.2	18.29	166.7	18.15	157.3	18	152.5	17.38	147.8	16.76	143.1	16.13	138.4	15.5	128.9	14.23
	0	-0.4	176.2	18.04	166.7	18	157.3	17.37	152.5	16.79	147.8	16.21	143.1	15.58	138.4	14.97	128.9	13.79
	5	4.5	176.2	16.24	166.7	15.74	157.3	15.24	152.5	14.69	147.8	14.15	143.1	13.71	138.4	13.18	128.9	12.18
	10	9	176.2	15.2	166.7	14.78	157.3	14.34	152.5	13.84	147.8	13.34	143.1	12.89	138.4	12.44	128.9	11.47
	15	14	176.2	13.97	166.7	13.58	157.3	13.18	152.5	12.73	147.8	12.28	143.1	11.91	138.4	11.47	128.9	10.57
	20	19	176.2	13.13	166.7	12.79	157.3	12.44	152.5	11.99	147.8	11.55	143.1	11.2	138.4	10.75	128.9	10.04
	25	23	176.2	12.52	166.7	12.18	157.3	11.84	152.5	11.43	147.8	11.02	143.1	10.65	138.4	10.31	128.9	9.59
	30	28	176.2	12.06	166.7	11.68	157.3	11.28	152.5	10.93	147.8	10.57	143.1	10.2	138.4	9.86	128.9	9.15
	35	32	176.2	11.11	166.7	10.89	157.3	10.65	152.5	10.29	147.8	9.94	143.1	9.59	138.4	9.3	128.9	8.59
	40	36	176.2	10.5	166.7	10.28	157.3	10.04	152.5	9.73	147.8	9.41	143.1	9.04	138.4	8.78	128.9	8.14
	45	41	176.2	10.21	166.7	9.95	157.3	9.67	152.5	9.36	147.8	9.04	143.1	8.78	138.4	8.51	128.9	7.88
	47	43	176.2	9.74	166.7	9.5	157.3	9.25	152.5	9.02	147.8	8.78	143.1	8.34	138.4	8.08	128.9	7.54
	50	46	176.2	9.47	166.7	9.26	157.3	9.04	152.5	8.78	147.8	8.51	143.1	8.25	138.4	7.99	128.9	7.43
	55	51	176.2	9.17	166.7	8.98	157.3	8.78	152.5	8.51	147.8	8.25	143.1	7.99	138.4	7.7	128.9	7.25
	60	56	176.2	8.68	166.7	8.47	157.3	8.25	152.5	8.03	147.8	7.8	143.1	7.54	138.4	7.25	128.9	6.8

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN288BT3, ARUN288DT3 / ARUB288BT3, ARUB288DT3 Heating Capacity

288,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
130	-4	-4.4	241.7	20.07	241.7	20.53	241.7	20.98	241	21.44	240.2	21.82	240.2	22.24	240.2	22.72	238.7	23.29
	0	-0.4	247.7	20.48	247.7	20.88	247.7	21.29	247	21.7	246.2	22.09	246.2	22.43	244.8	22.96	244.8	23.59
	5	4.5	271.9	21.31	271.9	21.74	271.9	22.16	271.1	22.59	270.4	22.82	270.4	23.47	270.4	24.12	268.9	24.76
	10	9	285.4	21.67	284	22.11	282.5	22.55	282.5	22.99	282.5	23.16	281.1	23.91	281.1	24.65	281.1	25.26
	15	14	302.1	22.35	302.1	22.82	302.1	23.3	301.4	23.77	300.7	23.99	300.7	24.66	300.7	25.41	299.2	26
	20	19	318.1	22.98	316.6	23.43	315.2	23.88	315.2	24.33	315.2	24.53	313.8	25.2	313.8	26	313.8	25.57
	25	23	328.7	23.35	328.7	23.84	328.7	24.34	328	24.83	327.3	25.1	327.3	25.79	327.3	25.79	325.8	25.23
	30	28	342.9	23.77	341.5	24.26	340.1	24.76	339.4	25.25	338.7	25.58	338.7	26	338.7	25.43	337.3	24.81
	35	32	359.4	24.44	358	24.89	356.6	25.34	356.6	25.79	356.6	26	356.6	25.49	355.2	24.78	355.2	24.15
	40	36	376.5	25.14	375.1	25.49	373.7	25.74	373.7	26	373.7	25.58	373.7	24.74	372.3	24.15	372.3	23.44
	45	41	386.2	25.54	386.2	25.84	386.2	26	385.5	25.58	384.8	24.95	384.8	24.24	383.4	23.61	383.4	22.88
	47	43	397.2	25.85	397.2	26	397.2	25.5	396.5	24.99	395.8	24.43	395.8	23.72	395.8	23.01	391.7	22.32
	50	46	408.1	26	408.1	25.56	408.1	25.05	407.4	24.53	406.7	23.82	406.7	23.09	406.7	22.45	390.2	21.62
	55	51	421.6	25.61	420.2	25.03	418.8	24.46	418.2	23.88	417.5	23.28	417.5	22.52	417.5	21.72	388.6	21.01
	60	56	418.8	24.24	418.8	23.71	418.8	23.18	418.1	22.65	417.5	21.69	407.1	21.01	392.9	20.3	365.8	19.52
120	-4	-4.4	243.7	21.73	242.2	21.96	240.7	22.19	240	22.43	239.2	22.86	239.2	23.28	239.2	23.64	237.7	24.11
	0	-0.4	246.7	21.94	246.7	22.19	246.7	22.44	246	22.7	245.3	23.14	245.3	23.49	245.3	23.81	243.8	24.33
	5	4.5	273.8	22.68	272.3	22.97	270.9	23.27	270.1	23.57	269.4	23.87	269.4	24.34	269.4	24.65	267.9	25.39
	10	9	283	23.09	283	23.37	283	23.65	282.2	23.93	281.5	24.2	281.5	24.72	281.5	25.1	280.1	25.89
	15	14	302.6	23.87	301.1	24.17	299.7	24.41	299.7	24.65	299.7	25.04	298.3	25.45	298.3	25.9	296.8	25.75
	20	19	315.6	24.36	315.6	24.62	315.6	24.89	314.9	25.16	314.2	25.68	314.2	25.89	314.2	25.66	312.8	25.38
	25	23	329.1	24.72	327.7	24.97	326.3	25.28	326.3	25.58	326.3	25.89	324.9	25.55	324.9	25.3	324.9	25.02
	30	28	340.5	25.14	339.1	25.39	337.7	25.64	337.7	25.89	337.7	25.52	337.7	25.18	336.3	24.9	336.3	24.65
	35	32	357	25.49	357	25.69	357	25.89	356.3	25.36	355.6	24.95	355.6	24.53	355.6	24.26	354.2	23.99
	40	36	374.1	25.77	374.1	25.89	374.1	25.36	373.4	24.76	372.7	24.26	372.7	23.91	372.7	23.66	364.3	23.34
	45	41	385.2	25.89	385.2	25.45	385.2	24.93	384.5	24.33	383.8	23.84	383.8	23.43	383.8	23.18	363	22.87
	47	43	396.2	25.47	396.2	25	396.2	24.52	395.5	23.86	394.8	23.39	394.8	22.94	389.3	22.72	361.6	22.32
	50	46	397.5	25.04	396.2	24.56	394.8	24.08	394.8	23.46	394.8	22.88	388.1	22.4	376.1	22.24	349.3	21.81
	55	51	402.7	24.62	401.4	24.13	400.1	23.64	397.5	22.99	394.8	22.4	381.7	21.9	369.8	21.66	343.5	21.21
	60	56	425.8	23.53	422.8	23.05	419.8	22.57	407.3	21.67	394.8	20.88	381.7	20.22	369.8	19.92	343.5	19.36
110	-4	-4.4	240.9	23.46	239.4	23.63	237.9	23.8	237.9	23.97	237.9	24.26	237.9	24.55	236.5	24.97	236.5	25.38
	0	-0.4	246.9	23.66	245.4	23.85	244	24.03	244	24.22	244	24.53	242.5	24.89	242.5	25.25	242.5	25.65
	5	4.5	271	24.39	269.6	24.62	268.1	24.85	268.1	25.05	268.1	25.31	268.1	25.61	266.7	26.16	266.7	26
	10	9	281.7	24.74	281.7	24.99	281.7	25.24	281	25.45	280.2	25.68	280.2	26.16	280.2	25.99	278.8	25.57
	15	14	301.3	25.26	299.8	25.58	298.4	25.9	298.4	26.16	298.4	26.02	298.4	25.81	297	25.45	297	24.93
	20	19	314.3	25.77	314.3	26.16	314.3	25.83	313.6	25.62	312.9	25.41	312.9	25.2	312.9	24.85	311.5	24.29
	25	23	327.8	26.16	326.4	25.66	325	25.35	325	25.14	325	24.93	325	24.68	323.6	24.37	323.6	23.85
	30	28	337.8	25.68	337.8	25.2	337.8	24.89	337.1	24.62	336.4	24.43	336.4	24.18	336.4	23.89	335	23.36
	35	32	354.3	24.86	354.3	24.55	354.3	24.23	354.3	23.92	354.3	23.74	352.9	23.49	352.9	23.14	336.1	22.6
	40	36	355.6	24.18	355.6	23.87	355.6	23.55	355	23.24	354.3	23.05	354.3	22.74	342.3	22.41	319.7	21.97
	45	41	358.2	23.77	356.9	23.44	355.6	23.12	354.9	22.8	354.3	22.55	342.7	22.28	331.1	22.02	309.2	21.41
	47	43	369.8	23.27	368.5	22.97	367.2	22.66	360.7	22.32	354.3	22.07	342.7	21.8	331.1	21.52	309.2	20.86
	50	46	382.6	22.73	380.1	22.43	377.5	22.12	365.9	21.84	354.3	21.44	342.7	21.21	331.1	20.84	309.2	20.28
	55	51	405.8	22.25	391.7	21.91	377.5	21.57	365.9	21.22	354.3	20.84	342.7	20.61	331.1	20.31	309.2	19.69
	60	56	421.3	20.65	399.4	20.46	377.5	20.27	365.9	20.08	354.3	19.67	342.7	19.44	331.1	19.08	309.2	18.58

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN288BT3, ARUN288DT3 / ARUB288BT3, ARUB288DT3

288,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	238.5	24.66	238.5	24.85	238.5	25.04	237.7	25.22	237	25.45	237	25.86	237	26.07	235.5	26.04
	0	-0.4	245.9	24.83	244.5	25.06	243	25.29	243	25.52	243	25.72	243	26.05	241.5	26.25	241.5	25.72
	5	4.5	268.6	25.44	268.6	25.64	268.6	25.84	267.9	26.04	267.1	26.25	267.1	25.85	267.1	25.16	265.7	24.59
	10	9	282.1	25.63	280.7	25.84	279.2	26.04	279.2	26.25	279.2	25.75	279.2	25.44	277.8	24.69	277.8	24.02
	15	14	298.9	26.1	298.9	26.25	298.9	26.11	298.1	25.47	297.4	24.95	297.4	24.51	297.4	23.77	296	23.09
	20	19	314.8	26.05	313.4	25.75	311.9	25.45	311.9	24.85	311.9	24.26	310.5	23.82	310.5	23.14	310.5	22.47
	25	23	325.4	25.63	325.4	25.33	325.4	25.03	324.7	24.43	324	23.74	324	23.35	324	22.4	309.8	21.81
	30	28	325.4	25.1	325.4	24.78	325.4	24.45	324.7	23.86	324	23.24	324	22.78	319.9	21.9	298	21.34
	35	32	329.2	24.29	327.9	23.97	326.6	23.65	325.3	23.02	324	22.51	313.6	21.89	303.3	21.1	282.5	20.5
	40	36	347.3	23.62	346	23.28	344.7	22.94	334.4	22.23	324	21.82	313.6	21.19	303.3	20.26	282.5	19.66
	45	41	370.7	23.11	357.7	22.75	344.7	22.38	334.4	21.76	324	21.36	313.6	20.52	303.3	19.7	282.5	19.07
	47	**43**	386.2	22.63	365.5	22.28	344.7	21.94	334.4	21.25	**324**	**20.88**	313.6	19.98	303.3	19.11	282.5	18.38
	50	46	386.2	22.12	365.5	21.75	344.7	21.37	334.4	20.84	324	20.36	313.6	19.54	303.3	18.55	282.5	17.93
	55	51	386.2	21.63	365.5	21.24	344.7	20.86	334.4	20.23	324	19.71	313.6	18.97	303.3	18.02	282.5	17.39
	60	56	386.2	20.65	365.5	20.26	344.7	19.88	334.4	19.11	324	18.48	313.6	17.74	303.3	16.99	282.5	16.28
90	-4	-4.4	237.5	23.42	237.5	23.7	237.5	23.98	236.7	24.33	236	24.54	236	24.79	236	24.69	236	23.84
	0	-0.4	243.5	23.57	243.5	23.87	243.5	24.16	242.8	24.5	242	24.71	242	24.89	242	24.38	240.5	23.5
	5	4.5	267.6	24.22	267.6	24.47	267.6	24.73	266.9	24.89	266.2	24.64	266.2	23.96	266.2	23.36	266.2	22.37
	10	9	281.2	24.51	279.7	24.7	278.3	24.9	278.3	24.47	278.3	24.01	278.3	23.43	278.3	22.74	276.8	21.76
	15	14	297.9	24.89	297.9	24.66	297.9	24.17	297.2	23.75	296.5	22.95	296.5	22.49	296.5	21.9	282.1	21.04
	20	19	299.2	24.3	297.8	23.97	296.5	23.43	296.5	22.88	296.5	22.28	296.5	21.89	286.9	21.3	266.5	20.46
	25	23	300.4	23.8	300.4	23.41	300.4	22.79	298.4	22.26	296.5	21.78	287.2	21.36	278	20.72	258.2	19.8
	30	28	314.9	23.34	313.6	22.91	312.3	22.35	304.4	21.8	296.5	21.28	287.2	20.85	278	20.22	258.2	19.33
	35	32	349.2	22.59	332	22.24	314.9	21.69	305.7	21.08	296.5	20.59	287.2	20.05	278	19.36	258.2	18.53
	40	36	354.4	21.92	334.7	21.51	314.9	21.01	305.7	20.5	296.5	19.9	287.2	19.35	278	18.76	258.2	17.72
	45	41	354.4	21.46	334.7	21.05	314.9	20.51	305.7	20.03	296.5	19.4	287.2	18.79	278	18.17	258.2	17.23
	47	43	354.4	21.01	334.7	20.57	314.9	20.05	305.7	19.43	296.5	18.91	287.2	18.26	278	17.72	258.2	16.71
	50	46	354.4	20.59	334.7	20.15	314.9	19.54	305.7	18.8	296.5	18.3	287.2	17.72	278	17.16	258.2	16.08
	55	51	354.4	20.13	334.7	19.62	314.9	18.92	305.7	18.22	296.5	17.68	287.2	17.12	278	16.53	258.2	15.62
	60	56	354.4	18.83	334.7	18.29	314.9	17.65	305.7	17.01	296.5	16.45	287.2	15.88	278	15.3	258.2	14.54
80	-4	-4.4	235	20.82	235	21.01	235	21.21	235	21.4	235	21.72	235	21.96	233.5	21.99	233.5	21.4
	0	-0.4	241	21.01	241	21.18	241	21.4	241	21.61	241	21.89	239.6	22.07	239.6	21.78	239.6	21.12
	5	4.5	265.2	21.61	265.2	21.78	265.2	21.94	265.2	22.07	265.2	21.82	265.2	21.21	263.7	20.72	253.5	20.08
	10	9	266.6	21.86	266.6	21.97	266.6	22.08	265.9	21.67	265.2	21.19	265.2	20.6	259.6	20.22	241.6	19.49
	15	14	273.2	22.07	273.2	21.84	273.2	21.37	269.2	20.79	265.2	20.19	257.2	19.81	248	19.37	230.7	18.75
	20	19	295.7	21.82	289.1	21.23	282.4	20.64	273.8	20.05	265.2	19.44	257.2	19.07	248	18.76	230.7	18.12
	25	23	316.9	21.33	299.7	20.75	282.4	20.18	273.8	19.51	265.2	18.96	257.2	18.56	248	18.2	230.7	17.55
	30	28	316.9	20.84	299.7	20.29	282.4	19.65	273.8	19.01	265.2	18.46	257.2	18.02	248	17.64	230.7	16.93
	35	32	316.9	20.01	299.7	19.44	282.4	18.88	273.8	18.31	265.2	17.77	257.2	17.29	248	16.82	230.7	16.13
	40	36	316.9	19.11	299.7	18.62	282.4	18.14	273.8	17.55	265.2	17.02	257.2	16.48	248	16	230.7	15.32
	45	41	316.9	18.54	299.7	18.06	282.4	17.58	273.8	17.14	265.2	16.58	257.2	15.93	248	15.44	230.7	14.69
	47	43	316.9	18	299.7	17.54	282.4	17.08	273.8	16.58	265.2	16.09	257.2	15.42	248	14.91	230.7	14.24
	50	46	316.9	17.48	299.7	17	282.4	16.51	273.8	15.98	265.2	15.48	257.2	14.81	248	14.31	230.7	13.64
	55	51	316.9	16.89	299.7	16.43	282.4	15.97	273.8	15.46	265.2	14.86	257.2	14.26	248	13.87	230.7	13.07
	60	56	316.9	15.65	299.7	15.24	282.4	14.83	273.8	14.23	265.2	13.63	257.2	13.09	248	12.69	230.7	11.92

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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LG

ARUN288BT3, ARUN288T3 / ARUB288BT3, ARUB288DT3

Heating Capacity

288,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	236.1	20.14	234.8	20.38	233.5	20.61	229.6	20.9	225.8	21.37	218	21.51	211.6	21.49	197.4	21.16
	0	-0.4	252.8	20.68	246.4	20.84	239.9	20.99	232.8	21.31	225.8	21.53	218	21.55	211.6	21.4	197.4	20.98
	5	4.5	268.3	21.4	254.1	21.46	239.9	21.53	232.8	21.55	225.8	21.07	218	20.64	211.6	20.27	197.4	19.48
	10	9	268.3	21.46	254.1	21.51	239.9	21.55	232.8	20.82	225.8	20.15	218	19.62	211.6	19.12	197.4	18.03
	15	14	268.3	21.55	254.1	21.26	239.9	20.36	232.8	19.39	225.8	18.4	218	17.62	211.6	17.18	197.4	16.49
	20	19	268.3	20.42	254.1	19.76	239.9	18.97	232.8	18.19	225.8	17.56	218	16.9	211.6	16.45	197.4	15.77
	25	23	268.3	19.52	254.1	18.94	239.9	18.23	232.8	17.51	225.8	16.98	218	16.3	211.6	15.86	197.4	15.26
	30	28	268.3	18.79	254.1	18.25	239.9	17.63	232.8	17.01	225.8	16.45	218	15.91	211.6	15.5	197.4	14.77
	35	32	268.3	17.75	254.1	17.29	239.9	16.79	232.8	16.07	225.8	15.66	218	15.11	211.6	14.74	197.4	13.84
	40	36	268.3	17.11	254.1	16.58	239.9	16.04	232.8	15.37	225.8	14.87	218	14.31	211.6	13.88	197.4	13.06
	45	41	268.3	16.67	254.1	16.1	239.9	15.52	232.8	14.83	225.8	14.32	218	13.74	211.6	13.27	197.4	12.62
	47	43	268.3	16.06	254.1	15.47	239.9	14.87	232.8	14.27	225.8	13.79	218	13.17	211.6	12.77	197.4	12.01
	50	46	268.3	15.58	254.1	14.99	239.9	14.4	232.8	13.69	225.8	13.26	218	12.71	211.6	12.28	197.4	11.44
	55	51	268.3	15.18	254.1	14.53	239.9	13.89	232.8	13.15	225.8	12.65	218	12.08	211.6	11.68	197.4	10.85
	60	56	268.3	13.98	254.1	13.36	239.9	12.74	232.8	11.94	225.8	11.42	218	10.88	211.6	10.48	197.4	9.81
60	-4	-4.4	202.5	19.79	202.5	20.13	202.5	20.48	198	20.82	193.5	21.2	187.1	20.94	180.6	20.82	169	19.3
	0	-0.4	211.6	19.83	209	20.21	206.4	20.59	200	21.05	193.5	21.31	187.1	20.82	180.6	20.25	169	18.6
	5	4.5	229.6	20.61	218	21.09	206.4	21.54	200	20.59	193.5	19.07	187.1	18.35	180.6	17.65	169	16.24
	10	9	229.6	21.09	218	21.55	206.4	20.71	200	19.3	193.5	17.88	187.1	17.31	180.6	16.59	169	15.29
	15	14	229.6	20.9	218	19.97	206.4	19.07	200	17.77	193.5	16.58	187.1	16	180.6	15.39	169	14.2
	20	19	229.6	19.86	218	19.07	206.4	18.25	200	17.04	193.5	15.83	187.1	15.23	180.6	14.76	169	13.55
	25	23	229.6	19.04	218	18.23	206.4	17.41	200	16.23	193.5	15.13	187.1	14.51	180.6	14.04	169	12.94
	30	28	229.6	18.12	218	17.37	206.4	16.63	200	15.53	193.5	14.55	187.1	13.96	180.6	13.48	169	12.5
	35	32	229.6	16.89	218	16.24	206.4	15.59	200	14.6	193.5	13.65	187.1	13.14	180.6	12.67	169	11.68
	40	36	229.6	15.69	218	15.16	206.4	14.64	200	13.8	193.5	12.81	187.1	12.35	180.6	11.91	169	11.07
	45	41	229.6	15.05	218	14.49	206.4	13.94	200	13.08	193.5	12.26	187.1	11.76	180.6	11.41	169	10.58
	47	43	229.6	14.3	218	13.75	206.4	13.19	200	12.36	193.5	11.78	187.1	11.32	180.6	10.86	169	10.1
	50	46	229.6	13.81	218	13.3	206.4	12.79	200	12.01	193.5	11.27	187.1	10.97	180.6	10.48	169	9.83
	55	51	229.6	13.16	218	12.7	206.4	12.24	200	11.52	193.5	10.83	187.1	10.48	180.6	10.11	169	9.42
	60	56	229.6	12.41	218	11.97	206.4	11.52	200	10.83	193.5	10.11	187.1	9.76	180.6	9.42	169	8.81
50	-4	-4.4	192.2	19.98	181.9	19.83	171.6	19.67	166.4	18.99	161.3	18.32	156.1	17.63	150.9	16.93	140.6	15.55
	0	-0.4	192.2	19.71	181.9	19.66	171.6	18.98	166.4	18.35	161.3	17.71	156.1	17.02	150.9	16.36	140.6	15.06
	5	4.5	192.2	17.74	181.9	17.2	171.6	16.65	166.4	16.06	161.3	15.47	156.1	14.98	150.9	14.4	140.6	13.31
	10	9	192.2	16.61	181.9	16.15	171.6	15.67	166.4	15.12	161.3	14.57	156.1	14.08	150.9	13.59	140.6	12.53
	15	14	192.2	15.27	181.9	14.84	171.6	14.4	166.4	13.91	161.3	13.42	156.1	13.02	150.9	12.53	140.6	11.55
	20	19	192.2	14.35	181.9	13.98	171.6	13.59	166.4	13.1	161.3	12.61	156.1	12.24	150.9	11.75	140.6	10.97
	25	23	192.2	13.68	181.9	13.31	171.6	12.93	166.4	12.48	161.3	12.04	156.1	11.64	150.9	11.26	140.6	10.48
	30	28	192.2	13.17	181.9	12.76	171.6	12.33	166.4	11.94	161.3	11.55	156.1	11.15	150.9	10.77	140.6	9.99
	35	32	192.2	12.14	181.9	11.89	171.6	11.64	166.4	11.25	161.3	10.86	156.1	10.48	150.9	10.17	140.6	9.39
	40	36	192.2	11.47	181.9	11.23	171.6	10.97	166.4	10.63	161.3	10.28	156.1	9.88	150.9	9.59	140.6	8.9
	45	41	192.2	11.15	181.9	10.87	171.6	10.57	166.4	10.22	161.3	9.88	156.1	9.59	150.9	9.3	140.6	8.61
	47	43	192.2	10.64	181.9	10.38	171.6	10.11	166.4	9.85	161.3	9.6	156.1	9.12	150.9	8.83	140.6	8.24
	50	46	192.2	10.34	181.9	10.12	171.6	9.88	166.4	9.59	161.3	9.3	156.1	9.01	150.9	8.73	140.6	8.12
	55	51	192.2	10.02	181.9	9.81	171.6	9.59	166.4	9.3	161.3	9.01	156.1	8.73	150.9	8.41	140.6	7.92
	60	56	192.2	9.49	181.9	9.25	171.6	9.01	166.4	8.77	161.3	8.52	156.1	8.24	150.9	7.92	140.6	7.43

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN312BT3, ARUN312DT3 / ARUB312BT3, ARUB312DT3

312,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	261.9	21.61	261.9	22.1	261.9	22.59	261.1	23.08	260.3	23.49	260.3	23.94	260.3	24.46	258.6	25.08
	0	-0.4	268.4	22.05	268.4	22.49	268.4	22.92	267.6	23.36	266.8	23.78	266.8	24.14	265.2	24.72	265.2	25.4
	5	4.5	294.5	22.94	294.5	23.4	294.5	23.86	293.7	24.32	292.9	24.57	292.9	25.27	292.9	25.96	291.3	26.65
	10	9	309.2	23.33	307.6	23.8	306.1	24.28	306.1	24.75	306.1	24.93	304.5	25.74	304.5	26.54	304.5	27.19
	15	14	327.3	24.06	327.3	24.57	327.3	25.08	326.5	25.59	325.7	25.83	325.7	26.55	325.7	27.36	324.2	27.99
	20	19	344.6	24.74	343	25.22	341.5	25.71	341.5	26.19	341.5	26.41	339.9	27.13	339.9	27.99	339.9	27.53
	25	23	356.1	25.14	356.1	25.67	356.1	26.2	355.3	26.73	354.5	27.02	354.5	27.76	354.5	27.77	353	27.16
	30	28	371.5	25.59	370	26.12	368.4	26.65	367.7	27.19	366.9	27.54	366.9	27.99	366.9	27.38	365.4	26.71
	35	32	389.3	26.31	387.8	26.79	386.3	27.28	386.3	27.76	386.3	27.99	386.3	27.45	384.8	26.68	384.8	26
	40	36	407.9	27.07	406.4	27.44	404.9	27.71	404.9	27.99	404.9	27.54	404.9	26.64	403.3	26	403.3	25.24
	45	41	418.4	27.49	418.4	27.82	418.4	27.99	417.6	27.54	416.9	26.86	416.9	26.1	415.4	25.42	415.4	24.64
	47	43	430.3	27.83	430.3	27.99	430.3	27.45	429.6	26.91	428.8	26.3	428.8	25.54	428.8	24.78	424.3	24.03
	50	46	442.1	27.99	442.1	27.52	442.1	26.96	441.4	26.41	440.6	25.64	440.6	24.86	440.6	24.18	422.7	23.28
	55	51	456.7	27.57	455.2	26.95	453.7	26.33	453	25.71	452.3	25.07	452.3	24.24	452.3	23.39	421	22.61
	60	56	453.7	26.1	453.7	25.53	453.7	24.96	453	24.39	452.3	23.36	441.1	22.62	425.7	21.85	396.3	21.02
120	-4	-4.4	264	23.39	262.4	23.64	260.8	23.89	260	24.15	259.2	24.62	259.2	25.07	259.2	25.45	257.6	25.96
	0	-0.4	267.3	23.63	267.3	23.9	267.3	24.16	266.5	24.43	265.7	24.91	265.7	25.29	265.7	25.64	264.1	26.2
	5	4.5	296.6	24.41	295	24.74	293.4	25.06	292.7	25.38	291.9	25.69	291.9	26.2	291.9	26.54	290.3	27.33
	10	9	306.6	24.86	306.6	25.16	306.6	25.46	305.8	25.77	305	26.05	305	26.62	305	27.03	303.4	27.88
	15	14	327.8	25.69	326.2	26.02	324.7	26.28	324.7	26.54	324.7	26.95	323.1	27.4	323.1	27.88	321.6	27.72
	20	19	341.9	26.22	341.9	26.51	341.9	26.8	341.2	27.09	340.4	27.65	340.4	27.88	340.4	27.63	338.8	27.32
	25	23	356.5	26.62	355	26.89	353.5	27.21	353.5	27.54	353.5	27.88	351.9	27.5	351.9	27.23	351.9	26.93
	30	28	368.9	27.06	367.4	27.33	365.8	27.6	365.8	27.88	365.8	27.47	365.8	27.11	364.3	26.81	364.3	26.54
	35	32	386.7	27.44	386.7	27.66	386.7	27.88	386	27.31	385.2	26.86	385.2	26.41	385.2	26.12	383.7	25.82
	40	36	405.3	27.74	405.3	27.88	405.3	27.31	404.5	26.66	403.8	26.12	403.8	25.74	403.8	25.48	394.7	25.13
	45	41	417.3	27.88	417.3	27.4	417.3	26.85	416.6	26.19	415.8	25.67	415.8	25.22	415.8	24.96	393.2	24.62
	47	43	429.2	27.43	429.2	26.91	429.2	26.4	428.5	25.68	427.7	25.18	427.7	24.7	421.7	24.46	391.7	24.03
	50	46	430.6	26.96	429.2	26.44	427.7	25.93	427.7	25.25	427.7	24.64	420.5	24.12	407.4	23.95	378.4	23.48
	55	51	436.3	26.5	434.9	25.98	433.4	25.45	430.6	24.75	427.7	24.12	413.5	23.57	400.7	23.32	372.1	22.84
	60	56	461.3	25.33	458.1	24.81	454.8	24.3	441.3	23.33	427.7	22.48	413.5	21.77	400.7	21.45	372.1	20.85
110	-4	-4.4	261	25.25	259.4	25.44	257.8	25.63	257.8	25.81	257.8	26.12	257.8	26.44	256.2	26.89	256.2	27.32
	0	-0.4	267.5	25.47	265.9	25.67	264.3	25.88	264.3	26.08	264.3	26.41	262.7	26.8	262.7	27.19	262.7	27.61
	5	4.5	293.6	26.26	292	26.5	290.5	26.76	290.5	26.97	290.5	27.25	290.5	27.58	288.9	28.16	288.9	27.99
	10	9	305.1	26.64	305.1	26.91	305.1	27.18	304.4	27.4	303.6	27.65	303.6	28.16	303.6	27.98	302	27.53
	15	14	326.4	27.2	324.8	27.54	323.3	27.88	323.3	28.17	323.3	28.01	323.3	27.79	321.7	27.4	321.7	26.84
	20	19	340.5	27.74	340.5	28.17	340.5	27.81	339.8	27.58	339	27.36	339	27.13	339	26.75	337.4	26.15
	25	23	355.1	28.17	353.6	27.63	352.1	27.29	352.1	27.07	352.1	26.84	352.1	26.58	350.5	26.24	350.5	25.68
	30	28	366	27.65	366	27.13	366	26.8	365.2	26.51	364.4	26.3	364.4	26.03	364.4	25.72	362.9	25.15
	35	32	383.8	26.76	383.8	26.43	383.8	26.09	383.8	25.75	383.8	25.56	382.3	25.29	382.3	24.92	364.1	24.33
	40	36	385.3	26.03	385.3	25.7	385.3	25.36	384.5	25.02	383.8	24.82	383.8	24.48	370.8	24.13	346.3	23.65
	45	41	388	25.59	386.6	25.24	385.2	24.9	384.5	24.55	383.8	24.28	371.3	23.99	358.7	23.7	335	23.06
	47	43	400.6	25.06	399.2	24.73	397.8	24.4	390.8	24.03	383.8	23.76	371.3	23.47	358.7	23.17	335	22.46
	50	46	414.5	24.47	411.7	24.14	408.9	23.82	396.4	23.51	383.8	23.09	371.3	22.83	358.7	22.44	335	21.83
	55	51	439.6	23.95	424.3	23.59	408.9	23.22	396.4	22.85	383.8	22.44	371.3	22.19	358.7	21.86	335	21.2
	60	56	456.4	22.23	432.7	22.02	408.9	21.82	396.4	21.61	383.8	21.18	371.3	20.93	358.7	20.54	335	20

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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LG

ARUN312BT3, ARUN312DT3 / ARUB312BT3, ARUB312DT3 Heating Capacity

312,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	-4	-4.4	258.3	26.55	258.3	26.75	258.3	26.95	257.5	27.16	256.7	27.4	256.7	27.84	256.7	28.07	255.1	28.03
	0	-0.4	266.4	26.73	264.8	26.98	263.2	27.23	263.2	27.48	263.2	27.7	263.2	28.05	261.6	28.26	261.6	27.69
	5	4.5	291	27.38	291	27.6	291	27.82	290.2	28.04	289.4	28.26	289.4	27.83	289.4	27.09	287.8	26.48
	10	9	305.7	27.6	304.1	27.82	302.5	28.04	302.5	28.26	302.5	27.72	302.5	27.39	301	26.58	301	25.86
	15	14	323.8	28.1	323.8	28.26	323.8	28.11	323	27.42	322.2	26.86	322.2	26.39	322.2	25.59	320.7	24.86
	20	19	341	28.05	339.5	27.72	337.9	27.4	337.9	26.75	337.9	26.12	336.4	25.64	336.4	24.91	336.4	24.19
	25	23	352.5	27.6	352.5	27.27	352.5	26.95	351.8	26.3	351	25.56	351	25.14	351	24.12	335.6	23.48
	30	28	352.5	27.03	352.5	26.67	352.5	26.32	351.7	25.69	351	25.02	351	24.53	346.6	23.58	322.9	22.98
	35	32	356.6	26.15	355.2	25.81	353.8	25.47	352.4	24.79	351	24.23	339.8	23.57	328.5	22.72	306.1	22.07
	40	36	376.3	25.43	374.9	25.07	373.5	24.7	362.2	23.94	351	23.49	339.8	22.82	328.5	21.81	306.1	21.16
	45	41	401.5	24.88	387.5	24.49	373.5	24.1	362.2	23.43	351	23	339.8	22.09	328.5	21.21	306.1	20.53
	47	**43**	418.4	24.36	395.9	23.99	373.5	23.62	362.2	22.88	**351**	**22.48**	339.8	21.51	328.5	20.58	306.1	19.79
	50	46	418.4	23.81	395.9	23.41	373.5	23.01	362.2	22.43	351	21.92	339.8	21.03	328.5	19.97	306.1	19.31
	55	51	418.4	23.28	395.9	22.87	373.5	22.46	362.2	21.78	351	21.22	339.8	20.43	328.5	19.41	306.1	18.73
	60	56	418.4	22.23	395.9	21.82	373.5	21.4	362.2	20.57	351	19.89	339.8	19.1	328.5	18.29	306.1	17.52
90	-4	-4.4	257.3	25.22	257.3	25.51	257.3	25.81	256.5	26.2	255.7	26.42	255.7	26.69	255.7	26.58	255.7	25.67
	0	-0.4	263.8	25.37	263.8	25.69	263.8	26.01	263	26.37	262.2	26.6	262.2	26.8	262.2	26.25	260.6	25.3
	5	4.5	289.9	26.07	289.9	26.35	289.9	26.62	289.1	26.8	288.3	26.53	288.3	25.8	288.3	25.15	288.3	24.09
	10	9	304.6	26.38	303	26.59	301.5	26.8	301.5	26.35	301.5	25.85	301.5	25.22	301.5	24.48	299.9	23.43
	15	14	322.7	26.8	322.7	26.55	322.7	26.03	321.9	25.57	321.2	24.71	321.2	24.22	321.2	23.57	305.6	22.65
	20	19	324.1	26.17	322.6	25.81	321.2	25.22	321.2	24.64	321.2	23.99	321.2	23.56	310.8	22.93	288.7	22.03
	25	23	325.4	25.63	325.4	25.2	325.4	24.54	323.3	23.96	321.2	23.45	311.2	23	301.2	22.31	279.8	21.32
	30	28	341.1	25.13	339.7	24.66	338.3	24.07	329.7	23.47	321.2	22.91	311.2	22.45	301.2	21.77	279.8	20.82
	35	32	378.3	24.32	359.7	23.94	341.1	23.35	331.1	22.69	321.2	22.17	311.2	21.58	301.2	20.84	279.8	19.95
	40	36	384	23.6	362.5	23.16	341.1	22.62	331.1	22.07	321.2	21.42	311.2	20.83	301.2	20.2	279.8	19.08
	45	41	384	23.11	362.5	22.66	341.1	22.08	331.1	21.56	321.2	20.88	311.2	20.23	301.2	19.56	279.8	18.56
	47	43	384	22.61	362.5	22.14	341.1	21.59	331.1	20.92	321.2	20.36	311.2	19.66	301.2	19.08	279.8	17.99
	50	46	384	22.17	362.5	21.69	341.1	21.04	331.1	20.24	321.2	19.7	311.2	19.08	301.2	18.47	279.8	17.31
	55	51	384	21.67	362.5	21.12	341.1	20.37	331.1	19.62	321.2	19.04	311.2	18.43	301.2	17.79	279.8	16.82
	60	56	384	20.28	362.5	19.69	341.1	19	331.1	18.31	321.2	17.71	311.2	17.1	301.2	16.48	279.8	15.66
80	-4	-4.4	254.6	22.41	254.6	22.62	254.6	22.83	254.6	23.04	254.6	23.38	254.6	23.65	253	23.67	253	23.04
	0	-0.4	261.1	22.61	261.1	22.81	261.1	23.04	261.1	23.27	261.1	23.57	259.5	23.76	259.5	23.45	259.5	22.73
	5	4.5	287.3	23.27	287.3	23.45	287.3	23.63	287.3	23.77	287.3	23.49	287.3	22.84	285.7	22.3	274.7	21.62
	10	9	288.8	23.53	288.8	23.65	288.8	23.77	288	23.33	287.3	22.82	287.3	22.18	281.3	21.77	261.7	20.99
	15	14	295.9	23.76	295.9	23.51	295.9	23	291.6	22.38	287.3	21.74	278.7	21.33	268.6	20.86	249.9	20.19
	20	19	320.3	23.5	313.2	22.86	306	22.22	296.6	21.58	287.3	20.93	278.7	20.53	268.6	20.19	249.9	19.51
	25	23	343.3	22.96	324.6	22.35	306	21.73	296.6	21.01	287.3	20.41	278.7	19.98	268.6	19.59	249.9	18.89
	30	28	343.3	22.44	324.6	21.85	306	21.16	296.6	20.47	287.3	19.87	278.7	19.4	268.6	19	249.9	18.22
	35	32	343.3	21.54	324.6	20.93	306	20.32	296.6	19.72	287.3	19.13	278.7	18.62	268.6	18.11	249.9	17.36
	40	36	343.3	20.57	324.6	20.05	306	19.53	296.6	18.9	287.3	18.32	278.7	17.74	268.6	17.23	249.9	16.49
	45	41	343.3	19.96	324.6	19.45	306	18.93	296.6	18.45	287.3	17.85	278.7	17.15	268.6	16.62	249.9	15.82
	47	43	343.3	19.38	324.6	18.88	306	18.38	296.6	17.85	287.3	17.32	278.7	16.6	268.6	16.06	249.9	15.33
	50	46	343.3	18.82	324.6	18.3	306	17.77	296.6	17.2	287.3	16.66	278.7	15.94	268.6	15.41	249.9	14.69
	55	51	343.3	18.19	324.6	17.69	306	17.19	296.6	16.64	287.3	16	278.7	15.35	268.6	14.93	249.9	14.07
	60	56	343.3	16.85	324.6	16.41	306	15.97	296.6	15.33	287.3	14.68	278.7	14.1	268.6	13.66	249.9	12.83

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN312BT3, ARUN312DT3 / ARUB312BT3, ARUB312DT3

312,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	-4	-4.4	255.7	21.69	254.3	21.94	252.9	22.19	248.8	22.51	244.6	23.01	236.2	23.16	229.2	23.14	213.8	22.78
	0	-0.4	273.9	22.27	266.9	22.44	259.9	22.6	252.3	22.94	244.6	23.18	236.2	23.2	229.2	23.04	213.8	22.58
	5	4.5	290.7	23.04	275.3	23.11	259.9	23.18	252.3	23.2	244.6	22.68	236.2	22.22	229.2	21.82	213.8	20.97
	10	9	290.7	23.11	275.3	23.15	259.9	23.2	252.3	22.41	244.6	21.69	236.2	21.12	229.2	20.58	213.8	19.41
	15	14	290.7	23.2	275.3	22.88	259.9	21.92	252.3	20.88	244.6	19.8	236.2	18.97	229.2	18.5	213.8	17.76
	20	19	290.7	21.99	275.3	21.27	259.9	20.42	252.3	19.58	244.6	18.91	236.2	18.2	229.2	17.71	213.8	16.97
	25	23	290.7	21.02	275.3	20.39	259.9	19.62	252.3	18.85	244.6	18.28	236.2	17.55	229.2	17.07	213.8	16.43
	30	28	290.7	20.23	275.3	19.65	259.9	18.98	252.3	18.32	244.6	17.71	236.2	17.13	229.2	16.68	213.8	15.91
	35	32	290.7	19.11	275.3	18.61	259.9	18.07	252.3	17.3	244.6	16.86	236.2	16.27	229.2	15.87	213.8	14.91
	40	36	290.7	18.43	275.3	17.85	259.9	17.27	252.3	16.55	244.6	16.01	236.2	15.41	229.2	14.94	213.8	14.07
	45	41	290.7	17.95	275.3	17.33	259.9	16.71	252.3	15.96	244.6	15.42	236.2	14.79	229.2	14.29	213.8	13.58
	47	43	290.7	17.29	275.3	16.65	259.9	16.01	252.3	15.37	244.6	14.85	236.2	14.18	229.2	13.75	213.8	12.93
	50	46	290.7	16.78	275.3	16.14	259.9	15.5	252.3	14.73	244.6	14.28	236.2	13.69	229.2	13.22	213.8	12.32
	55	51	290.7	16.34	275.3	15.65	259.9	14.95	252.3	14.16	244.6	13.62	236.2	13.01	229.2	12.58	213.8	11.69
	60	56	290.7	15.05	275.3	14.39	259.9	13.72	252.3	12.85	244.6	12.3	236.2	11.72	229.2	11.28	213.8	10.56
60	-4	-4.4	219.4	21.3	219.4	21.67	219.4	22.05	214.5	22.42	209.6	22.82	202.6	22.54	195.7	22.42	183.1	20.77
	0	-0.4	229.2	21.35	226.4	21.76	223.6	22.17	216.6	22.67	209.6	22.95	202.6	22.42	195.7	21.8	183.1	20.03
	5	4.5	248.8	22.19	236.2	22.7	223.6	23.19	216.6	22.17	209.6	20.53	202.6	19.75	195.7	19.01	183.1	17.49
	10	9	248.8	22.7	236.2	23.2	223.6	22.29	216.6	20.77	209.6	19.26	202.6	18.64	195.7	17.86	183.1	16.46
	15	14	248.8	22.5	236.2	21.5	223.6	20.53	216.6	19.13	209.6	17.85	202.6	17.22	195.7	16.57	183.1	15.29
	20	19	248.8	21.38	236.2	20.54	223.6	19.65	216.6	18.34	209.6	17.04	202.6	16.4	195.7	15.89	183.1	14.59
	25	23	248.8	20.5	236.2	19.62	223.6	18.75	216.6	17.47	209.6	16.29	202.6	15.62	195.7	15.11	183.1	13.93
	30	28	248.8	19.51	236.2	18.7	223.6	17.9	216.6	16.72	209.6	15.67	202.6	15.03	195.7	14.51	183.1	13.46
	35	32	248.8	18.19	236.2	17.48	223.6	16.78	216.6	15.72	209.6	14.7	202.6	14.15	195.7	13.64	183.1	12.58
	40	36	248.8	16.89	236.2	16.33	223.6	15.76	216.6	14.86	209.6	13.8	202.6	13.3	195.7	12.82	183.1	11.92
	45	41	248.8	16.2	236.2	15.6	223.6	15	216.6	14.09	209.6	13.2	202.6	12.66	195.7	12.28	183.1	11.4
	47	43	248.8	15.4	236.2	14.8	223.6	14.2	216.6	13.3	209.6	12.68	202.6	12.19	195.7	11.69	183.1	10.87
	50	46	248.8	14.87	236.2	14.32	223.6	13.77	216.6	12.94	209.6	12.13	202.6	11.81	195.7	11.28	183.1	10.58
	55	51	248.8	14.17	236.2	13.67	223.6	13.18	216.6	12.4	209.6	11.66	202.6	11.29	195.7	10.88	183.1	10.14
	60	56	248.8	13.37	236.2	12.88	223.6	12.4	216.6	11.66	209.6	10.88	202.6	10.51	195.7	10.14	183.1	9.49
50	-4	-4.4	208.2	21.51	197	21.35	185.9	21.18	180.3	20.45	174.7	19.72	169.1	18.98	163.5	18.23	152.3	16.74
	0	-0.4	208.2	21.22	197	21.17	185.9	20.43	180.3	19.75	174.7	19.07	169.1	18.33	163.5	17.61	152.3	16.22
	5	4.5	208.2	19.1	197	18.52	185.9	17.92	180.3	17.29	174.7	16.65	169.1	16.12	163.5	15.5	152.3	14.33
	10	9	208.2	17.88	197	17.38	185.9	16.87	180.3	16.28	174.7	15.69	169.1	15.16	163.5	14.64	152.3	13.49
	15	14	208.2	16.44	197	15.98	185.9	15.5	180.3	14.98	174.7	14.45	169.1	14.02	163.5	13.49	152.3	12.43
	20	19	208.2	15.45	197	15.05	185.9	14.64	180.3	14.11	174.7	13.58	169.1	13.18	163.5	12.65	152.3	11.81
	25	23	208.2	14.73	197	14.33	185.9	13.92	180.3	13.44	174.7	12.96	169.1	12.53	163.5	12.12	152.3	11.29
	30	28	208.2	14.18	197	13.73	185.9	13.27	180.3	12.85	174.7	12.43	169.1	12	163.5	11.6	152.3	10.76
	35	32	208.2	13.07	197	12.81	185.9	12.53	180.3	12.11	174.7	11.69	169.1	11.29	163.5	10.95	152.3	10.11
	40	36	208.2	12.35	197	12.09	185.9	11.81	180.3	11.44	174.7	11.07	169.1	10.64	163.5	10.33	152.3	9.58
	45	41	208.2	12.01	197	11.7	185.9	11.38	180.3	11.01	174.7	10.64	169.1	10.33	163.5	10.02	152.3	9.27
	47	43	208.2	11.45	197	11.17	185.9	10.88	180.3	10.61	174.7	10.33	169.1	9.81	163.5	9.51	152.3	8.87
	50	46	208.2	11.14	197	10.89	185.9	10.64	180.3	10.33	174.7	10.02	169.1	9.71	163.5	9.4	152.3	8.74
	55	51	208.2	10.79	197	10.56	185.9	10.33	180.3	10.02	174.7	9.71	169.1	9.4	163.5	9.05	152.3	8.53
	60	56	208.2	10.21	197	9.96	185.9	9.71	180.3	9.44	174.7	9.18	169.1	8.87	163.5	8.53	152.3	8

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70°F dry bulb (DB) and 59°F wet bulb (WB), and outdoor ambient conditions of 47°F dry bulb (DB) and 43°F wet bulb (WB).

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PERFORMANCE DATA

ARUN336BT3, ARUN336DT3 / ARUB336BT3, ARUB336DT3 Heating Capacity

336,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	282	23.35	282	23.88	282	24.41	281.1	24.94	280.3	25.38	280.3	25.87	280.3	26.43	278.5	27.1
	0	-0.4	289	23.82	289	24.3	289	24.77	288.2	25.24	287.3	25.7	287.3	26.09	285.6	26.71	285.6	27.44
	5	4.5	317.2	24.79	317.2	25.29	317.2	25.78	316.3	26.28	315.5	26.55	315.5	27.3	315.5	28.06	313.8	28.8
	10	9	333	25.21	331.3	25.72	329.6	26.23	329.6	26.74	329.6	26.94	327.9	27.81	327.9	28.68	327.9	29.38
	15	14	352.5	26	352.5	26.55	352.5	27.1	351.6	27.65	350.8	27.91	350.8	28.69	350.8	29.56	349.1	30.24
	20	19	371.1	26.73	369.4	27.25	367.7	27.78	367.7	28.3	367.7	28.54	366.1	29.32	366.1	30.24	366.1	29.75
	25	23	383.5	27.17	383.5	27.74	383.5	28.31	382.6	28.88	381.8	29.2	381.8	30	381.8	30	380.1	29.35
	30	28	400.1	27.65	398.4	28.22	396.8	28.8	395.9	29.38	395.1	29.76	395.1	30.24	395.1	29.59	393.5	28.86
	35	32	419.3	28.43	417.6	28.95	416	29.47	416	30	416	30.24	416	29.66	414.4	28.82	414.4	28.1
	40	36	439.3	29.25	437.6	29.65	436	29.94	436	30.24	436	29.76	436	28.78	434.4	28.1	434.4	27.27
	45	41	450.6	29.71	450.6	30.06	450.6	30.24	449.8	29.76	449	29.03	449	28.2	447.3	27.46	447.3	26.62
	47	43	463.4	30.07	463.4	30.24	463.4	29.66	462.6	29.08	461.8	28.42	461.8	27.59	461.8	26.77	457	25.97
	50	46	476.1	30.24	476.1	29.73	476.1	29.14	475.3	28.54	474.5	27.71	474.5	26.86	474.5	26.12	455.2	25.15
	55	51	491.9	29.79	490.3	29.12	488.7	28.45	487.9	27.78	487.1	27.08	487.1	26.19	487.1	25.27	453.4	24.44
	60	56	488.6	28.2	488.6	27.59	488.6	26.97	487.8	26.35	487.1	25.24	475	24.44	458.4	23.61	426.7	22.71
120	-4	-4.4	284.3	25.28	282.6	25.55	280.9	25.82	280	26.09	279.1	26.6	279.1	27.08	279.1	27.5	277.4	28.05
	0	-0.4	287.9	25.53	287.9	25.82	287.9	26.11	287	26.4	286.1	26.91	286.1	27.33	286.1	27.7	284.4	28.31
	5	4.5	319.4	26.38	317.7	26.73	316	27.08	315.2	27.42	314.3	27.76	314.3	28.31	314.3	28.68	312.6	29.54
	10	9	330.1	26.86	330.1	27.19	330.1	27.52	329.3	27.84	328.4	28.15	328.4	28.76	328.4	29.2	326.7	30.12
	15	14	353	27.76	351.3	28.11	349.6	28.39	349.6	28.67	349.6	29.12	348	29.61	348	30.12	346.3	29.95
	20	19	368.2	28.33	368.2	28.65	368.2	28.96	367.4	29.27	366.6	29.88	366.6	30.12	366.6	29.85	364.9	29.52
	25	23	384	28.76	382.3	29.05	380.6	29.4	380.6	29.76	380.6	30.12	379	29.72	379	29.43	379	29.1
	30	28	397.3	29.24	395.6	29.53	394	29.83	394	30.12	394	29.68	394	29.29	392.3	28.97	392.3	28.68
	35	32	416.5	29.65	416.5	29.89	416.5	30.12	415.7	29.5	414.9	29.03	414.9	28.54	414.9	28.22	413.2	27.9
	40	36	436.5	29.97	436.5	30.12	436.5	29.51	435.7	28.8	434.8	28.22	434.8	27.81	434.8	27.53	425.1	27.15
	45	41	449.4	30.12	449.4	29.6	449.4	29.01	448.6	28.3	447.8	27.74	447.8	27.25	447.8	26.97	423.5	26.6
	47	43	462.3	29.63	462.3	29.08	462.3	28.52	461.5	27.75	460.6	27.2	460.6	26.68	454.2	26.43	421.9	25.96
	50	46	463.8	29.13	462.2	28.57	460.6	28.02	460.6	27.29	460.6	26.62	452.8	26.06	438.8	25.87	407.6	25.37
	55	51	469.9	28.64	468.3	28.07	466.8	27.5	463.7	26.74	460.6	26.06	445.3	25.47	431.5	25.2	400.8	24.68
	60	56	496.8	27.37	493.3	26.81	489.8	26.25	475.2	25.21	460.6	24.29	445.3	23.53	431.5	23.18	400.8	22.52
110	-4	-4.4	281.1	27.29	279.3	27.49	277.6	27.69	277.6	27.89	277.6	28.22	277.6	28.57	275.9	29.05	275.9	29.52
	0	-0.4	288.1	27.52	286.3	27.74	284.6	27.96	284.6	28.18	284.6	28.54	282.9	28.95	282.9	29.38	282.9	29.84
	5	4.5	316.2	28.37	314.5	28.64	312.8	28.91	312.8	29.14	312.8	29.44	312.8	29.8	311.1	30.43	311.1	30.25
	10	9	328.6	28.78	328.6	29.07	328.6	29.36	327.8	29.61	326.9	29.87	326.9	30.43	326.9	30.24	325.2	29.75
	15	14	351.5	29.39	349.8	29.76	348.1	30.13	348.1	30.44	348.1	30.27	348.1	30.02	346.5	29.61	346.5	29
	20	19	366.7	29.97	366.7	30.44	366.7	30.05	365.9	29.8	365.1	29.56	365.1	29.32	365.1	28.91	363.4	28.26
	25	23	382.4	30.44	380.8	29.85	379.1	29.49	379.1	29.25	379.1	29	379.1	28.72	377.5	28.35	377.5	27.75
	30	28	394.1	29.88	394.1	29.32	394.1	28.96	393.3	28.64	392.5	28.42	392.5	28.13	392.5	27.79	390.8	27.18
	35	32	413.3	28.92	413.3	28.56	413.3	28.19	413.3	27.83	413.3	27.62	411.7	27.33	411.7	26.92	392.1	26.29
	40	36	414.9	28.13	414.9	27.76	414.9	27.4	414.1	27.04	413.3	26.82	413.3	26.45	399.4	26.07	372.9	25.55
	45	41	417.9	27.65	416.3	27.27	414.8	26.9	414.1	26.53	413.3	26.23	399.8	25.92	386.3	25.61	360.7	24.91
	47	43	431.4	27.08	429.9	26.72	428.4	26.36	420.9	25.97	413.3	25.67	399.8	25.36	386.3	25.04	360.7	24.26
	50	46	446.4	26.44	443.4	26.09	440.4	25.73	426.9	25.4	413.3	24.95	399.8	24.67	386.3	24.25	360.7	23.59
	55	51	473.5	25.88	456.9	25.49	440.4	25.09	426.9	24.69	413.3	24.24	399.8	23.98	386.3	23.63	360.7	22.91
	60	56	491.5	24.02	466	23.8	440.4	23.58	426.9	23.36	413.3	22.88	399.8	22.61	386.3	22.2	360.7	21.61

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN336BT3, ARUN336DT3 / ARUB336BT3, ARUB336DT3

336,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	-4	-4.4	278.2	28.69	278.2	28.91	278.2	29.13	277.3	29.34	276.5	29.61	276.5	30.09	276.5	30.33	274.7	30.29
	0	-0.4	286.9	28.89	285.2	29.15	283.5	29.42	283.5	29.69	283.5	29.93	283.5	30.31	281.8	30.54	281.8	29.92
	5	4.5	313.4	29.59	313.4	29.82	313.4	30.06	312.5	30.3	311.7	30.53	311.7	30.07	311.7	29.27	310	28.61
	10	9	329.2	29.82	327.5	30.06	325.8	30.29	325.8	30.53	325.8	29.95	325.8	29.6	324.1	28.72	324.1	27.94
	15	14	348.7	30.36	348.7	30.53	348.7	30.37	347.8	29.63	347	29.03	347	28.51	347	27.65	345.3	26.86
	20	19	367.3	30.31	365.6	29.96	363.9	29.61	363.9	28.91	363.9	28.22	362.3	27.71	362.3	26.92	362.3	26.13
	25	23	379.7	29.82	379.7	29.47	379.7	29.12	378.8	28.42	378	27.62	378	27.16	378	26.06	361.4	25.37
	30	28	379.6	29.2	379.6	28.82	379.6	28.44	378.8	27.76	378	27.04	378	26.5	373.2	25.48	347.7	24.83
	35	32	384	28.25	382.5	27.88	381	27.52	379.5	26.78	378	26.18	365.9	25.46	353.8	24.55	329.6	23.85
	40	36	405.2	27.48	403.7	27.08	402.2	26.69	390.1	25.86	378	25.38	365.9	24.65	353.8	23.57	329.6	22.87
	45	41	432.4	26.88	417.3	26.46	402.2	26.04	390.1	25.32	378	24.85	365.9	23.87	353.8	22.92	329.6	22.19
	47	**43**	450.6	26.32	426.4	25.92	402.2	25.52	390.1	24.72	**378**	**24.29**	365.9	23.24	353.8	22.23	329.6	21.38
	50	46	450.6	25.73	426.4	25.3	402.2	24.86	390.1	24.24	378	23.68	365.9	22.73	353.8	21.58	329.6	20.86
	55	51	450.6	25.16	426.4	24.71	402.2	24.27	390.1	23.53	378	22.93	365.9	22.07	353.8	20.97	329.6	20.23
	60	56	450.6	24.02	426.4	23.57	402.2	23.12	390.1	22.23	378	21.5	365.9	20.64	353.8	19.76	329.6	18.93
90	-4	-4.4	277.1	27.25	277.1	27.57	277.1	27.89	276.2	28.31	275.3	28.54	275.3	28.84	275.3	28.72	275.3	27.74
	0	-0.4	284.1	27.42	284.1	27.76	284.1	28.11	283.2	28.5	282.3	28.75	282.3	28.96	282.3	28.36	280.6	27.34
	5	4.5	312.2	28.17	312.2	28.47	312.2	28.77	311.4	28.95	310.5	28.66	310.5	27.88	310.5	27.17	310.5	26.03
	10	9	328	28.51	326.3	28.74	324.7	28.96	324.7	28.47	324.7	27.93	324.7	27.25	324.7	26.45	323	25.31
	15	14	347.5	28.95	347.5	28.69	347.5	28.12	346.7	27.63	345.9	26.69	345.9	26.17	345.9	25.47	329.1	24.48
	20	19	349	28.27	347.4	27.89	345.9	27.25	345.9	26.62	345.9	25.92	345.9	25.46	334.8	24.78	311	23.8
	25	23	350.5	27.69	350.5	27.23	350.5	26.51	348.2	25.89	345.9	25.33	335.1	24.85	324.3	24.11	301.3	23.03
	30	28	367.4	27.16	365.8	26.65	364.3	26	355.1	25.36	345.9	24.75	335.1	24.25	324.3	23.52	301.3	22.49
	35	32	407.3	26.28	387.4	25.87	367.4	25.23	356.6	24.52	345.9	23.95	335.1	23.32	324.3	22.52	301.3	21.56
	40	36	413.5	25.5	390.4	25.03	367.4	24.44	356.6	23.85	345.9	23.15	335.1	22.51	324.3	21.83	301.3	20.61
	45	41	413.5	24.97	390.4	24.48	367.4	23.85	356.6	23.3	345.9	22.57	335.1	21.86	324.3	21.14	301.3	20.05
	47	43	413.5	24.44	390.4	23.93	367.4	23.32	356.6	22.61	345.9	22	335.1	21.25	324.3	20.62	301.3	19.44
	50	46	413.5	23.95	390.4	23.44	367.4	22.73	356.6	21.87	345.9	21.28	335.1	20.61	324.3	19.96	301.3	18.71
	55	51	413.5	23.42	390.4	22.82	367.4	22.01	356.6	21.2	345.9	20.57	335.1	19.91	324.3	19.22	301.3	18.17
	60	56	413.5	21.91	390.4	21.28	367.4	20.53	356.6	19.78	345.9	19.14	335.1	18.47	324.3	17.8	301.3	16.92
80	-4	-4.4	274.2	24.22	274.2	24.44	274.2	24.67	274.2	24.89	274.2	25.27	274.2	25.55	272.5	25.58	272.5	24.9
	0	-0.4	281.2	24.44	281.2	24.64	281.2	24.89	281.2	25.14	281.2	25.47	279.5	25.68	279.5	25.34	279.5	24.57
	5	4.5	309.4	25.14	309.4	25.33	309.4	25.53	309.4	25.68	309.4	25.38	309.4	24.68	307.7	24.1	295.8	23.36
	10	9	311	25.43	311	25.55	311	25.68	310.2	25.21	309.4	24.65	309.4	23.96	302.9	23.53	281.9	22.67
	15	14	318.7	25.67	318.7	25.41	318.7	24.86	314	24.18	309.4	23.49	300.1	23.05	289.3	22.54	269.2	21.82
	20	19	345	25.39	337.2	24.7	329.5	24.01	319.5	23.32	309.4	22.61	300.1	22.19	289.3	21.82	269.2	21.08
	25	23	369.7	24.81	349.6	24.14	329.5	23.48	319.5	22.7	309.4	22.06	300.1	21.59	289.3	21.17	269.2	20.41
	30	28	369.7	24.24	349.6	23.6	329.5	22.86	319.5	22.11	309.4	21.47	300.1	20.96	289.3	20.53	269.2	19.69
	35	32	369.7	23.27	349.6	22.62	329.5	21.96	319.5	21.3	309.4	20.67	300.1	20.12	289.3	19.56	269.2	18.76
	40	36	369.7	22.23	349.6	21.67	329.5	21.11	319.5	20.42	309.4	19.8	300.1	19.17	289.3	18.61	269.2	17.82
	45	41	369.7	21.57	349.6	21.01	329.5	20.45	319.5	19.93	309.4	19.29	300.1	18.53	289.3	17.96	269.2	17.09
	47	43	369.7	20.94	349.6	20.4	329.5	19.87	319.5	19.29	309.4	18.72	300.1	17.94	289.3	17.35	269.2	16.57
	50	46	369.7	20.34	349.6	19.77	329.5	19.2	319.5	18.59	309.4	18	300.1	17.23	289.3	16.65	269.2	15.87
	55	51	369.7	19.65	349.6	19.12	329.5	18.58	319.5	17.98	309.4	17.29	300.1	16.59	289.3	16.14	269.2	15.2
	60	56	369.7	18.21	349.6	17.73	329.5	17.25	319.5	16.56	309.4	15.86	300.1	15.23	289.3	14.76	269.2	13.87

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN336BT3, ARUN336DT3 / ARUB336BT3, ARUB336DT3 Heating Capacity

336,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	275.4	23.43	273.9	23.71	272.4	23.98	267.9	24.32	263.4	24.86	254.3	25.02	246.8	25	230.3	24.62
	0	-0.4	295	24.06	287.5	24.24	279.9	24.42	271.7	24.79	263.4	25.04	254.3	25.07	246.8	24.89	230.3	24.4
	5	4.5	313	24.89	296.5	24.97	279.9	25.05	271.7	25.07	263.4	24.51	254.3	24.01	246.8	23.58	230.3	22.66
	10	9	313	24.97	296.5	25.02	279.9	25.07	271.7	24.22	263.4	23.44	254.3	22.82	246.8	22.24	230.3	20.98
	15	14	313	25.07	296.5	24.73	279.9	23.69	271.7	22.56	263.4	21.4	254.3	20.49	246.8	19.99	230.3	19.18
	20	19	313	23.76	296.5	22.98	279.9	22.07	271.7	21.16	263.4	20.43	254.3	19.66	246.8	19.14	230.3	18.34
	25	23	313	22.71	296.5	22.04	279.9	21.2	271.7	20.37	263.4	19.75	254.3	18.97	246.8	18.45	230.3	17.75
	30	28	313	21.86	296.5	21.23	279.9	20.51	271.7	19.79	263.4	19.14	254.3	18.51	246.8	18.03	230.3	17.19
	35	32	313	20.65	296.5	20.11	279.9	19.53	271.7	18.7	263.4	18.22	254.3	17.58	246.8	17.14	230.3	16.11
	40	36	313	19.91	296.5	19.29	279.9	18.66	271.7	17.89	263.4	17.29	254.3	16.65	246.8	16.14	230.3	15.2
	45	41	313	19.4	296.5	18.73	279.9	18.06	271.7	17.25	263.4	16.66	254.3	15.99	246.8	15.44	230.3	14.68
	47	43	313	18.69	296.5	17.99	279.9	17.3	271.7	16.6	263.4	16.05	254.3	15.32	246.8	14.86	230.3	13.97
	50	46	313	18.13	296.5	17.44	279.9	16.75	271.7	15.92	263.4	15.43	254.3	14.79	246.8	14.28	230.3	13.31
	55	51	313	17.66	296.5	16.91	279.9	16.15	271.7	15.3	263.4	14.72	254.3	14.05	246.8	13.59	230.3	12.63
	60	56	313	16.27	296.5	15.55	279.9	14.83	271.7	13.89	263.4	13.29	254.3	12.66	246.8	12.19	230.3	11.41
60	-4	-4.4	236.3	23.02	236.3	23.42	236.3	23.82	231	24.22	225.8	24.66	218.2	24.36	210.7	24.22	197.2	22.45
	0	-0.4	246.8	23.07	243.8	23.51	240.8	23.95	233.3	24.49	225.8	24.79	218.2	24.22	210.7	23.55	197.2	21.64
	5	4.5	267.9	23.97	254.3	24.53	240.8	25.06	233.3	23.95	225.8	22.18	218.2	21.34	210.7	20.54	197.2	18.9
	10	9	267.9	24.53	254.3	25.07	240.8	24.09	233.3	22.45	225.8	20.81	218.2	20.14	210.7	19.3	197.2	17.79
	15	14	267.9	24.31	254.3	23.23	240.8	22.18	233.3	20.67	225.8	19.29	218.2	18.61	210.7	17.9	197.2	16.52
	20	19	267.9	23.1	254.3	22.19	240.8	21.23	233.3	19.82	225.8	18.41	218.2	17.72	210.7	17.17	197.2	15.76
	25	23	267.9	22.15	254.3	21.2	240.8	20.26	233.3	18.88	225.8	17.61	218.2	16.88	210.7	16.33	197.2	15.06
	30	28	267.9	21.08	254.3	20.21	240.8	19.34	233.3	18.07	225.8	16.93	218.2	16.24	210.7	15.68	197.2	14.54
	35	32	267.9	19.65	254.3	18.89	240.8	18.13	233.3	16.99	225.8	15.88	218.2	15.29	210.7	14.73	197.2	13.59
	40	36	267.9	18.25	254.3	17.64	240.8	17.03	233.3	16.05	225.8	14.91	218.2	14.37	210.7	13.85	197.2	12.88
	45	41	267.9	17.51	254.3	16.86	240.8	16.21	233.3	15.22	225.8	14.26	218.2	13.68	210.7	13.27	197.2	12.31
	47	43	267.9	16.64	254.3	15.99	240.8	15.34	233.3	14.37	225.8	13.7	218.2	13.17	210.7	12.63	197.2	11.75
	50	46	267.9	16.07	254.3	15.48	240.8	14.88	233.3	13.98	225.8	13.11	218.2	12.76	210.7	12.19	197.2	11.44
	55	51	267.9	15.31	254.3	14.78	240.8	14.24	233.3	13.4	225.8	12.6	218.2	12.2	210.7	11.76	197.2	10.96
	60	56	267.9	14.44	254.3	13.92	240.8	13.4	233.3	12.6	225.8	11.76	218.2	11.36	210.7	10.96	197.2	10.25
50	-4	-4.4	224.2	23.24	212.2	23.07	200.2	22.88	194.1	22.1	188.1	21.31	182.1	20.5	176.1	19.7	164	18.09
	0	-0.4	224.2	22.93	212.2	22.87	200.2	22.08	194.1	21.34	188.1	20.6	182.1	19.8	176.1	19.03	164	17.52
	5	4.5	224.2	20.64	212.2	20.01	200.2	19.36	194.1	18.68	188.1	17.99	182.1	17.42	176.1	16.75	164	15.48
	10	9	224.2	19.32	212.2	18.78	200.2	18.23	194.1	17.59	188.1	16.95	182.1	16.38	176.1	15.81	164	14.57
	15	14	224.2	17.76	212.2	17.26	200.2	16.75	194.1	16.18	188.1	15.61	182.1	15.14	176.1	14.57	164	13.43
	20	19	224.2	16.69	212.2	16.26	200.2	15.81	194.1	15.24	188.1	14.67	182.1	14.24	176.1	13.67	164	12.76
	25	23	224.2	15.91	212.2	15.49	200.2	15.04	194.1	14.52	188.1	14	182.1	13.54	176.1	13.1	164	12.2
	30	28	224.2	15.32	212.2	14.84	200.2	14.34	194.1	13.89	188.1	13.43	182.1	12.97	176.1	12.53	164	11.63
	35	32	224.2	14.13	212.2	13.84	200.2	13.54	194.1	13.08	188.1	12.63	182.1	12.2	176.1	11.83	164	10.92
	40	36	224.2	13.35	212.2	13.06	200.2	12.76	194.1	12.36	188.1	11.96	182.1	11.49	176.1	11.16	164	10.35
	45	41	224.2	12.97	212.2	12.64	200.2	12.3	194.1	11.89	188.1	11.49	182.1	11.16	176.1	10.82	164	10.02
	47	43	224.2	12.37	212.2	12.07	200.2	11.76	194.1	11.46	188.1	11.16	182.1	10.6	176.1	10.28	164	9.59
	50	46	224.2	12.03	212.2	11.77	200.2	11.49	194.1	11.16	188.1	10.82	182.1	10.49	176.1	10.15	164	9.45
	55	51	224.2	11.66	212.2	11.41	200.2	11.16	194.1	10.82	188.1	10.49	182.1	10.15	176.1	9.78	164	9.21
	60	56	224.2	11.03	212.2	10.77	200.2	10.49	194.1	10.2	188.1	9.92	182.1	9.58	176.1	9.21	164	8.64

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN360BT3, ARUN360DT3 / ARUB360BT3, ARUB360DT3

360,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	302.2	25.05	302.2	25.62	302.2	26.19	301.2	26.76	300.3	27.23	300.3	27.75	300.3	28.35	298.4	29.07
	0	-0.4	309.7	25.56	309.7	26.07	309.7	26.57	308.7	27.08	307.8	27.57	307.8	27.99	306	28.66	306	29.44
	5	4.5	339.8	26.59	339.8	27.13	339.8	27.66	338.9	28.2	338	28.48	338	29.29	338	30.1	336.2	30.9
	10	9	356.8	27.05	354.9	27.6	353.1	28.14	353.1	28.69	353.1	28.9	351.3	29.84	351.3	30.77	351.3	31.53
	15	14	377.7	27.89	377.7	28.48	377.7	29.08	376.8	29.67	375.9	29.94	375.9	30.78	375.9	31.72	374.1	32.44
	20	19	397.6	28.68	395.8	29.24	394	29.8	394	30.36	394	30.62	392.2	31.45	392.2	32.44	392.2	31.92
	25	23	410.9	29.15	410.9	29.76	410.9	30.37	410	30.99	409.1	31.32	409.1	32.18	409.1	32.19	407.3	31.48
	30	28	428.7	29.66	426.9	30.28	425.1	30.9	424.2	31.52	423.3	31.92	423.3	32.44	423.3	31.74	421.6	30.96
	35	32	449.2	30.5	447.5	31.06	445.7	31.62	445.7	32.18	445.7	32.44	445.7	31.82	444	30.92	444	30.14
	40	36	470.6	31.38	468.9	31.81	467.1	32.13	467.1	32.44	467.1	31.92	467.1	30.88	465.4	30.15	465.4	29.26
	45	41	482.8	31.87	482.8	32.25	482.8	32.44	481.9	31.92	481	31.14	481	30.26	479.3	29.46	479.3	28.56
	47	43	496.5	32.26	496.5	32.45	496.5	31.82	495.6	31.19	494.8	30.49	494.8	29.6	494.8	28.72	489.6	27.86
	50	46	510.1	32.44	510.1	31.9	510.1	31.26	509.3	30.62	508.4	29.73	508.4	28.82	508.4	28.03	487.7	26.99
	55	51	527	31.96	525.3	31.24	523.6	30.52	522.7	29.8	521.8	29.06	521.8	28.1	521.8	27.11	485.8	26.22
	60	56	523.5	30.26	523.5	29.6	523.5	28.94	522.6	28.28	521.8	27.08	508.9	26.22	491.1	25.33	457.2	24.37
120	-4	-4.4	304.7	27.12	302.8	27.41	300.9	27.7	300	27.99	299.1	28.54	299.1	29.06	299.1	29.5	297.2	30.09
	0	-0.4	308.4	27.39	308.4	27.7	308.4	28.01	307.5	28.33	306.6	28.87	306.6	29.32	306.6	29.72	304.7	30.37
	5	4.5	342.3	28.3	340.4	28.67	338.6	29.05	337.7	29.42	336.8	29.79	336.8	30.38	336.8	30.77	334.9	31.69
	10	9	353.7	28.82	353.7	29.17	353.7	29.52	352.8	29.87	351.9	30.2	351.9	30.86	351.9	31.33	350.1	32.31
	15	14	378.2	29.79	376.4	30.16	374.6	30.46	374.6	30.76	374.6	31.25	372.8	31.77	372.8	32.32	371	32.14
	20	19	394.5	30.4	394.5	30.73	394.5	31.07	393.7	31.4	392.8	32.05	392.8	32.31	392.8	32.03	391	31.67
	25	23	411.4	30.86	409.6	31.17	407.8	31.55	407.8	31.92	407.8	32.31	406.1	31.88	406.1	31.57	406.1	31.22
	30	28	425.6	31.37	423.9	31.69	422.1	32	422.1	32.31	422.1	31.85	422.1	31.43	420.3	31.08	420.3	30.77
	35	32	446.2	31.81	446.2	32.06	446.2	32.31	445.4	31.65	444.5	31.14	444.5	30.62	444.5	30.27	442.7	29.94
	40	36	467.6	32.16	467.6	32.31	467.6	31.66	466.8	30.9	465.9	30.28	465.9	29.84	465.9	29.53	455.4	29.13
	45	41	481.5	32.31	481.5	31.76	481.5	31.12	480.7	30.36	479.8	29.76	479.8	29.24	479.8	28.93	453.7	28.54
	47	43	495.3	31.79	495.3	31.2	495.3	30.6	494.4	29.77	493.5	29.19	493.5	28.63	486.6	28.36	452	27.85
	50	46	496.9	31.25	495.2	30.65	493.5	30.06	493.5	29.28	493.5	28.56	485.2	27.96	470.1	27.76	436.7	27.22
	55	51	503.4	30.72	501.8	30.11	500.1	29.5	496.8	28.69	493.5	27.96	477.1	27.33	462.3	27.04	429.4	26.48
	60	56	532.3	29.37	528.6	28.77	524.8	28.16	509.2	27.05	493.5	26.06	477.1	25.24	462.3	24.86	429.4	24.16
110	-4	-4.4	301.2	29.27	299.3	29.49	297.4	29.71	297.4	29.92	297.4	30.28	297.4	30.65	295.6	31.17	295.6	31.67
	0	-0.4	308.6	29.53	306.8	29.76	304.9	30	304.9	30.23	304.9	30.62	303.1	31.06	303.1	31.52	303.1	32.01
	5	4.5	338.8	30.44	337	30.72	335.1	31.02	335.1	31.26	335.1	31.58	335.1	31.97	333.3	32.65	333.3	32.45
	10	9	352.1	30.88	352.1	31.19	352.1	31.5	351.2	31.76	350.3	32.05	350.3	32.65	350.3	32.44	348.5	31.92
	15	14	376.6	31.53	374.8	31.92	373	32.32	373	32.65	373	32.47	373	32.21	371.2	31.77	371.2	31.12
	20	19	392.9	32.16	392.9	32.65	392.9	32.24	392	31.98	391.1	31.72	391.1	31.45	391.1	31.01	389.4	30.32
	25	23	409.8	32.65	408	32.03	406.2	31.64	406.2	31.38	406.2	31.12	406.2	30.81	404.4	30.42	404.4	29.77
	30	28	422.3	32.05	422.3	31.45	422.3	31.07	421.4	30.73	420.5	30.49	420.5	30.18	420.5	29.81	418.7	29.16
	35	32	442.9	31.03	442.9	30.64	442.9	30.24	442.9	29.85	442.9	29.63	441.1	29.32	441.1	28.89	420.1	28.21
	40	36	444.5	30.18	444.5	29.79	444.5	29.4	443.7	29.01	442.9	28.77	442.9	28.38	427.9	27.97	399.6	27.42
	45	41	447.7	29.66	446.1	29.26	444.5	28.86	443.7	28.46	442.9	28.14	428.4	27.81	413.9	27.48	386.5	26.73
	47	43	462.2	29.05	460.6	28.67	459	28.28	450.9	27.86	442.9	27.55	428.4	27.21	413.9	26.86	386.5	26.03
	50	46	478.3	28.37	475.1	27.99	471.9	27.61	457.4	27.26	442.9	26.76	428.4	26.47	413.9	26.01	386.5	25.31
	55	51	507.3	27.77	489.6	27.34	471.9	26.92	457.4	26.49	442.9	26.01	428.4	25.73	413.9	25.35	386.5	24.58
	60	56	526.6	25.77	499.2	25.53	471.9	25.29	457.4	25.06	442.9	24.55	428.4	24.26	413.9	23.82	386.5	23.19

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN360BT3, ARUN360DT3 / ARUB360BT3, ARUB360DT3 — Heating Capacity

360,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
100	-4	-4.4	298.1	30.78	298.1	31.01	298.1	31.25	297.1	31.48	296.2	31.77	296.2	32.28	296.2	32.54	294.4	32.5
	0	-0.4	307.4	30.99	305.6	31.28	303.7	31.57	303.7	31.85	303.7	32.11	303.7	32.51	301.9	32.76	301.9	32.1
	5	4.5	335.7	31.75	335.7	32	335.7	32.25	334.8	32.5	333.9	32.76	333.9	32.26	333.9	31.4	332.1	30.69
	10	9	352.7	31.99	350.9	32.25	349.1	32.5	349.1	32.76	349.1	32.13	349.1	31.75	347.3	30.81	347.3	29.98
	15	14	373.6	32.58	373.6	32.76	373.6	32.59	372.7	31.79	371.8	31.14	371.8	30.59	371.8	29.67	370	28.82
	20	19	393.5	32.51	391.7	32.14	389.9	31.76	389.9	31.01	389.9	30.28	388.1	29.73	388.1	28.88	388.1	28.04
	25	23	406.8	31.99	406.8	31.61	406.8	31.24	405.9	30.49	405	29.63	405	29.14	405	27.96	387.2	27.22
	30	28	406.7	31.33	406.7	30.92	406.7	30.52	405.9	29.78	405	29.01	405	28.43	399.9	27.33	372.5	26.64
	35	32	411.5	30.31	409.9	29.92	408.2	29.52	406.6	28.73	405	28.09	392	27.32	379.1	26.34	353.2	25.58
	40	36	434.2	29.49	432.5	29.06	430.9	28.63	418	27.75	405	27.23	392	26.45	379.1	25.29	353.2	24.53
	45	41	463.3	28.84	447.1	28.39	430.9	27.94	418	27.16	405	26.66	392	25.61	379.1	24.59	353.2	23.8
	47	**43**	482.8	28.24	456.8	27.81	430.9	27.38	418	26.52	**405**	**26.06**	392	24.93	379.1	23.85	353.2	22.94
	50	46	482.8	27.61	456.8	27.14	430.9	26.68	418	26.01	405	25.41	392	24.38	379.1	23.15	353.2	22.38
	55	51	482.8	26.99	456.8	26.51	430.9	26.04	418	25.24	405	24.6	392	23.68	379.1	22.5	353.2	21.71
	60	56	482.8	25.77	456.8	25.29	430.9	24.81	418	23.84	405	23.06	392	22.14	379.1	21.2	353.2	20.31
90	-4	-4.4	296.9	29.23	296.9	29.58	296.9	29.92	295.9	30.37	295	30.62	295	30.94	295	30.81	295	29.76
	0	-0.4	304.4	29.42	304.4	29.79	304.4	30.16	303.4	30.57	302.5	30.84	302.5	31.07	302.5	30.43	300.7	29.33
	5	4.5	334.5	30.22	334.5	30.54	334.5	30.86	333.6	31.06	332.7	30.75	332.7	29.91	332.7	29.15	332.7	27.92
	10	9	351.5	30.59	349.7	30.83	347.8	31.07	347.8	30.55	347.8	29.97	347.8	29.24	347.8	28.38	346	27.16
	15	14	372.4	31.06	372.4	30.78	372.4	30.17	371.5	29.65	370.6	28.64	370.6	28.07	370.6	27.33	352.6	26.26
	20	19	374	30.33	372.3	29.92	370.6	29.24	370.6	28.56	370.6	27.81	370.6	27.32	358.7	26.58	333.2	25.54
	25	23	375.5	29.71	375.5	29.21	375.5	28.44	373	27.78	370.6	27.18	359	26.66	347.5	25.86	322.8	24.71
	30	28	393.6	29.14	392	28.59	390.3	27.9	380.4	27.21	370.6	26.56	359	26.02	347.5	25.24	322.8	24.13
	35	32	436.4	28.2	415	27.75	393.6	27.07	382.1	26.31	370.6	25.7	359	25.02	347.5	24.16	322.8	23.13
	40	36	443	27.36	418.3	26.85	393.6	26.22	382.1	25.59	370.6	24.84	359	24.15	347.5	23.42	322.8	22.11
	45	41	443	26.79	418.3	26.27	393.6	25.59	382.1	25	370.6	24.21	359	23.46	347.5	22.68	322.8	21.51
	47	43	443	26.22	418.3	25.67	393.6	25.02	382.1	24.25	370.6	23.6	359	22.8	347.5	22.12	322.8	20.86
	50	46	443	25.7	418.3	25.15	393.6	24.39	382.1	23.47	370.6	22.83	359	22.11	347.5	21.42	322.8	20.07
	55	51	443	25.12	418.3	24.48	393.6	23.61	382.1	22.74	370.6	22.07	359	21.36	347.5	20.63	322.8	19.49
	60	56	443	23.51	418.3	22.83	393.6	22.03	382.1	21.23	370.6	20.54	359	19.82	347.5	19.1	322.8	18.15
80	-4	-4.4	293.8	25.98	293.8	26.23	293.8	26.47	293.8	26.71	293.8	27.11	293.8	27.41	291.9	27.44	291.9	26.71
	0	-0.4	301.3	26.22	301.3	26.44	301.3	26.71	301.3	26.98	301.3	27.32	299.5	27.55	299.5	27.18	299.5	26.36
	5	4.5	331.5	26.97	331.5	27.18	331.5	27.39	331.5	27.55	331.5	27.23	331.5	26.48	329.7	25.86	316.9	25.06
	10	9	333.2	27.28	333.2	27.42	333.2	27.55	332.4	27.04	331.5	26.45	331.5	25.71	324.6	25.24	302	24.33
	15	14	341.4	27.55	341.4	27.26	341.4	26.67	336.5	25.95	331.5	25.2	321.5	24.73	309.9	24.18	288.4	23.41
	20	19	369.6	27.24	361.3	26.5	353	25.76	342.3	25.02	331.5	24.26	321.5	23.8	309.9	23.41	288.4	22.61
	25	23	396.1	26.62	374.6	25.9	353	25.19	342.3	24.35	331.5	23.66	321.5	23.17	309.9	22.71	288.4	21.9
	30	28	396.1	26.01	374.6	25.32	353	24.52	342.3	23.72	331.5	23.04	321.5	22.49	309.9	22.02	288.4	21.13
	35	32	396.1	24.97	374.6	24.27	353	23.56	342.3	22.86	331.5	22.18	321.5	21.58	309.9	20.99	288.4	20.13
	40	36	396.1	23.85	374.6	23.25	353	22.65	342.3	21.91	331.5	21.24	321.5	20.57	309.9	19.97	288.4	19.11
	45	41	396.1	23.14	374.6	22.54	353	21.94	342.3	21.39	331.5	20.69	321.5	19.88	309.9	19.27	288.4	18.34
	47	43	396.1	22.47	374.6	21.89	353	21.31	342.3	20.69	331.5	20.08	321.5	19.25	309.9	18.61	288.4	17.77
	50	46	396.1	21.82	374.6	21.21	353	20.6	342.3	19.94	331.5	19.32	321.5	18.48	309.9	17.86	288.4	17.03
	55	51	396.1	21.09	374.6	20.51	353	19.93	342.3	19.29	331.5	18.55	321.5	17.8	309.9	17.31	288.4	16.31
	60	56	396.1	19.54	374.6	19.02	353	18.51	342.3	17.77	331.5	17.02	321.5	16.34	309.9	15.83	288.4	14.88

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN360BT3, ARUN360DT3 / ARUB360BT3, ARUB360DT3

360,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW	MBh	kW
70	-4	-4.4	295.1	25.14	293.5	25.43	291.9	25.73	287	26.09	282.2	26.67	272.5	26.84	264.5	26.83	246.7	26.41
	0	-0.4	316.1	25.81	308	26.01	299.9	26.2	291.1	26.59	282.2	26.87	272.5	26.89	264.5	26.71	246.7	26.18
	5	4.5	335.4	26.71	317.7	26.79	299.9	26.87	291.1	26.9	282.2	26.29	272.5	25.76	264.5	25.3	246.7	24.31
	10	9	335.4	26.79	317.7	26.84	299.9	26.9	291.1	25.98	282.2	25.15	272.5	24.49	264.5	23.86	246.7	22.5
	15	14	335.4	26.89	317.7	26.53	299.9	25.41	291.1	24.2	282.2	22.96	272.5	21.99	264.5	21.44	246.7	20.58
	20	19	335.4	25.49	317.7	24.66	299.9	23.68	291.1	22.7	282.2	21.92	272.5	21.1	264.5	20.54	246.7	19.68
	25	23	335.4	24.37	317.7	23.64	299.9	22.75	291.1	21.85	282.2	21.19	272.5	20.35	264.5	19.79	246.7	19.05
	30	28	335.4	23.45	317.7	22.78	299.9	22.01	291.1	21.23	282.2	20.54	272.5	19.86	264.5	19.34	246.7	18.44
	35	32	335.4	22.15	317.7	21.58	299.9	20.95	291.1	20.06	282.2	19.55	272.5	18.86	264.5	18.39	246.7	17.28
	40	36	335.4	21.36	317.7	20.69	299.9	20.02	291.1	19.19	282.2	18.55	272.5	17.86	264.5	17.32	246.7	16.31
	45	41	335.4	20.81	317.7	20.09	299.9	19.37	291.1	18.5	282.2	17.88	272.5	17.15	264.5	16.56	246.7	15.75
	47	43	335.4	20.05	317.7	19.3	299.9	18.56	291.1	17.81	282.2	17.22	272.5	16.44	264.5	15.94	246.7	14.99
	50	46	335.4	19.45	317.7	18.71	299.9	17.97	291.1	17.08	282.2	16.55	272.5	15.87	264.5	15.33	246.7	14.28
	55	51	335.4	18.94	317.7	18.14	299.9	17.33	291.1	16.42	282.2	15.79	272.5	15.08	264.5	14.58	246.7	13.55
	60	56	335.4	17.45	317.7	16.68	299.9	15.91	291.1	14.9	282.2	14.25	272.5	13.58	264.5	13.08	246.7	12.25
60	-4	-4.4	253.2	24.69	253.2	25.13	253.2	25.56	247.5	25.99	241.9	26.46	233.8	26.13	225.8	25.99	211.2	24.08
	0	-0.4	264.5	24.75	261.2	25.23	258	25.7	249.9	26.28	241.9	26.6	233.8	25.99	225.8	25.27	211.2	23.22
	5	4.5	287	25.72	272.5	26.32	258	26.89	249.9	25.7	241.9	23.8	233.8	22.9	225.8	22.03	211.2	20.27
	10	9	287	26.32	272.5	26.89	258	25.84	249.9	24.08	241.9	22.32	233.8	21.6	225.8	20.7	211.2	19.09
	15	14	287	26.09	272.5	24.92	258	23.8	249.9	22.17	241.9	20.69	233.8	19.97	225.8	19.21	211.2	17.72
	20	19	287	24.78	272.5	23.81	258	22.78	249.9	21.27	241.9	19.75	233.8	19.01	225.8	18.42	211.2	16.91
	25	23	287	23.76	272.5	22.75	258	21.74	249.9	20.26	241.9	18.89	233.8	18.11	225.8	17.52	211.2	16.15
	30	28	287	22.61	272.5	21.68	258	20.75	249.9	19.38	241.9	18.16	233.8	17.42	225.8	16.83	211.2	15.6
	35	32	287	21.08	272.5	20.27	258	19.45	249.9	18.23	241.9	17.04	233.8	16.4	225.8	15.81	211.2	14.58
	40	36	287	19.58	272.5	18.93	258	18.27	249.9	17.22	241.9	15.99	233.8	15.42	225.8	14.86	211.2	13.82
	45	41	287	18.78	272.5	18.09	258	17.39	249.9	16.33	241.9	15.3	233.8	14.68	225.8	14.24	211.2	13.21
	47	43	287	17.85	272.5	17.16	258	16.46	249.9	15.42	241.9	14.7	233.8	14.13	225.8	13.55	211.2	12.6
	50	46	287	17.24	272.5	16.6	258	15.97	249.9	15	241.9	14.06	233.8	13.69	225.8	13.08	211.2	12.27
	55	51	287	16.43	272.5	15.85	258	15.28	249.9	14.38	241.9	13.52	233.8	13.08	225.8	12.62	211.2	11.75
	60	56	287	15.49	272.5	14.94	258	14.38	249.9	13.52	241.9	12.62	233.8	12.19	225.8	11.75	211.2	11
50	-4	-4.4	240.3	24.94	227.4	24.76	214.5	24.55	208	23.71	201.6	22.86	195.1	22	188.7	21.14	175.8	19.41
	0	-0.4	240.3	24.6	227.4	24.54	214.5	23.69	208	22.9	201.6	22.11	195.1	21.24	188.7	20.42	175.8	18.8
	5	4.5	240.3	22.14	227.4	21.47	214.5	20.78	208	20.04	201.6	19.3	195.1	18.69	188.7	17.97	175.8	16.61
	10	9	240.3	20.73	227.4	20.15	214.5	19.55	208	18.87	201.6	18.19	195.1	17.58	188.7	16.97	175.8	15.64
	15	14	240.3	19.05	227.4	18.52	214.5	17.97	208	17.36	201.6	16.75	195.1	16.25	188.7	15.64	175.8	14.41
	20	19	240.3	17.91	227.4	17.45	214.5	16.97	208	16.35	201.6	15.74	195.1	15.28	188.7	14.67	175.8	13.69
	25	23	240.3	17.07	227.4	16.61	214.5	16.14	208	15.58	201.6	15.02	195.1	14.52	188.7	14.05	175.8	13.08
	30	28	240.3	16.44	227.4	15.92	214.5	15.38	208	14.9	201.6	14.41	195.1	13.91	188.7	13.44	175.8	12.47
	35	32	240.3	15.15	227.4	14.85	214.5	14.52	208	14.04	201.6	13.55	195.1	13.08	188.7	12.69	175.8	11.72
	40	36	240.3	14.32	227.4	14.01	214.5	13.69	208	13.26	201.6	12.83	195.1	12.33	188.7	11.97	175.8	11.11
	45	41	240.3	13.92	227.4	13.56	214.5	13.19	208	12.76	201.6	12.33	195.1	11.97	188.7	11.61	175.8	10.75
	47	43	240.3	13.28	227.4	12.95	214.5	12.61	208	12.29	201.6	11.98	195.1	11.38	188.7	11.03	175.8	10.29
	50	46	240.3	12.91	227.4	12.63	214.5	12.33	208	11.97	201.6	11.61	195.1	11.25	188.7	10.89	175.8	10.14
	55	51	240.3	12.51	227.4	12.24	214.5	11.97	208	11.61	201.6	11.25	195.1	10.89	188.7	10.5	175.8	9.88
	60	56	240.3	11.84	227.4	11.55	214.5	11.25	208	10.95	201.6	10.64	195.1	10.28	188.7	9.88	175.8	9.27

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN384BT3, ARUN384DT3 / ARUB384BT3, ARUB384DT3 Heating Capacity

384,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	322.3	26.66	322.3	27.27	322.3	27.87	321.3	28.48	320.3	28.99	320.3	29.54	320.3	30.18	318.3	30.95
	0	-0.4	330.3	27.21	330.3	27.75	330.3	28.29	329.3	28.83	328.3	29.35	328.3	29.79	326.3	30.51	326.3	31.34
	5	4.5	362.5	28.31	362.5	28.88	362.5	29.45	361.5	30.01	360.5	30.32	360.5	31.18	360.5	32.04	358.6	32.89
	10	9	380.5	28.79	378.6	29.37	376.7	29.96	376.7	30.54	376.7	30.76	374.7	31.76	374.7	32.75	374.7	33.56
	15	14	402.8	29.69	402.8	30.32	402.8	30.95	401.9	31.58	400.9	31.87	400.9	32.76	400.9	33.76	399	34.54
	20	19	424.1	30.53	422.2	31.12	420.3	31.72	420.3	32.32	420.3	32.59	418.4	33.48	418.4	34.54	418.4	33.98
	25	23	438.2	31.03	438.2	31.68	438.2	32.33	437.3	32.98	436.3	33.34	436.3	34.26	436.3	34.26	434.4	33.51
	30	28	457.2	31.57	455.3	32.23	453.5	32.89	452.5	33.55	451.6	33.98	451.6	34.54	451.6	33.79	449.7	32.96
	35	32	479.2	32.46	477.3	33.06	475.4	33.66	475.4	34.26	475.4	34.54	475.4	33.87	473.6	32.92	473.6	32.09
	40	36	502	33.4	500.1	33.86	498.3	34.2	498.3	34.54	498.3	33.98	498.3	32.87	496.4	32.09	496.4	31.14
	45	41	514.9	33.93	514.9	34.33	514.9	34.54	514	33.98	513.1	33.15	513.1	32.21	511.2	31.36	511.2	30.4
	47	43	529.6	34.34	529.6	34.54	529.6	33.87	528.7	33.2	527.8	32.46	527.8	31.51	527.8	30.57	522.2	29.66
	50	46	544.1	34.54	544.1	33.95	544.1	33.27	543.2	32.59	542.3	31.64	542.3	30.68	542.3	29.83	520.2	28.73
	55	51	562.1	34.02	560.3	33.26	558.5	32.49	557.5	31.73	556.6	30.93	556.6	29.91	556.6	28.86	518.2	27.91
	60	56	558.4	32.21	558.4	31.5	558.4	30.8	557.5	30.1	556.6	28.82	542.8	27.91	523.9	26.96	487.7	25.94
120	-4	-4.4	325	28.87	323	29.18	321	29.49	320	29.79	319	30.38	319	30.93	319	31.4	317	32.03
	0	-0.4	329	29.15	329	29.49	329	29.82	328	30.15	327	30.74	327	31.21	327	31.64	325	32.33
	5	4.5	365.1	30.12	363.1	30.52	361.2	30.92	360.2	31.32	359.2	31.71	359.2	32.34	359.2	32.75	357.3	33.73
	10	9	377.3	30.67	377.3	31.05	377.3	31.42	376.3	31.8	375.4	32.15	375.4	32.84	375.4	33.35	373.4	34.4
	15	14	403.4	31.71	401.5	32.11	399.6	32.43	399.6	32.74	399.6	33.26	397.7	33.82	397.7	34.4	395.8	34.21
	20	19	420.9	32.36	420.9	32.71	420.9	33.07	419.9	33.43	418.9	34.12	418.9	34.4	418.9	34.09	417	33.71
	25	23	438.8	32.84	436.9	33.18	435	33.58	435	33.98	435	34.4	433.1	33.94	433.1	33.61	433.1	33.23
	30	28	454	33.39	452.1	33.73	450.2	34.06	450.2	34.4	450.2	33.9	450.2	33.45	448.4	33.08	448.4	32.75
	35	32	476	33.86	476	34.13	476	34.4	475.1	33.7	474.1	33.15	474.1	32.59	474.1	32.23	472.2	31.87
	40	36	498.8	34.23	498.8	34.4	498.8	33.7	497.9	32.89	497	32.23	497	31.76	497	31.44	485.8	31.01
	45	41	513.6	34.4	513.6	33.81	513.6	33.13	512.7	32.32	511.8	31.68	511.8	31.12	511.8	30.8	484	30.38
	47	43	528.3	33.84	528.3	33.21	528.3	32.58	527.4	31.69	526.4	31.07	526.4	30.47	519.1	30.19	482.1	29.65
	50	46	530	33.26	528.2	32.63	526.4	32	526.4	31.16	526.4	30.4	517.5	29.76	501.5	29.55	465.8	28.97
	55	51	537	32.7	535.2	32.05	533.5	31.4	530	30.54	526.4	29.77	508.9	29.09	493.1	28.78	458	28.18
	60	56	567.8	31.26	563.8	30.62	559.8	29.98	543.1	28.79	526.4	27.74	508.9	26.87	493.1	26.47	458	25.72
110	-4	-4.4	321.2	31.16	319.2	31.39	317.3	31.62	317.3	31.85	317.3	32.23	317.3	32.62	315.3	33.18	315.3	33.71
	0	-0.4	329.2	31.43	327.3	31.68	325.3	31.93	325.3	32.18	325.3	32.59	323.3	33.07	323.3	33.55	323.3	34.08
	5	4.5	361.4	32.4	359.4	32.71	357.5	33.02	357.5	33.28	357.5	33.62	357.5	34.03	355.5	34.75	355.5	34.54
	10	9	375.6	32.87	375.6	33.2	375.6	33.53	374.6	33.81	373.6	34.12	373.6	34.75	373.6	34.53	371.7	33.98
	15	14	401.7	33.56	399.8	33.98	397.9	34.4	397.9	34.76	397.9	34.56	397.9	34.29	396	33.82	396	33.12
	20	19	419.1	34.23	419.1	34.76	419.1	34.31	418.2	34.04	417.2	33.76	417.2	33.48	417.2	33.01	415.3	32.27
	25	23	437.1	34.76	435.2	34.09	433.3	33.68	433.3	33.4	433.3	33.12	433.3	32.8	431.4	32.38	431.4	31.69
	30	28	450.4	34.12	450.4	33.48	450.4	33.07	449.5	32.71	448.5	32.46	448.5	32.12	448.5	31.73	446.6	31.04
	35	32	472.4	33.03	472.4	32.61	472.4	32.19	472.4	31.78	472.4	31.54	470.5	31.21	470.5	30.75	448.1	30.03
	40	36	474.2	32.12	474.2	31.71	474.2	31.29	473.3	30.88	472.4	30.62	472.4	30.21	456.4	29.77	426.2	29.18
	45	41	477.5	31.57	475.8	31.15	474.1	30.72	473.3	30.29	472.4	29.96	456.9	29.6	441.5	29.25	412.3	28.45
	47	43	493	30.92	491.3	30.51	489.6	30.11	481	29.65	472.4	29.32	456.9	28.96	441.5	28.59	412.3	27.71
	50	46	510.2	30.2	506.7	29.79	503.3	29.39	487.9	29.01	472.4	28.49	456.9	28.18	441.5	27.69	412.3	26.94
	55	51	541.1	29.56	522.2	29.11	503.3	28.65	487.9	28.2	472.4	27.68	456.9	27.39	441.5	26.98	412.3	26.16
	60	56	561.7	27.43	532.5	27.18	503.3	26.92	487.9	26.67	472.4	26.13	456.9	25.83	441.5	25.35	412.3	24.68

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN384BT3, ARUN384DT3 / ARUB384BT3, ARUB384DT3

384,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	317.9	32.77	317.9	33.01	317.9	33.26	317	33.51	316	33.82	316	34.36	316	34.64	314	34.59
	0	-0.4	327.9	32.99	326	33.29	324	33.6	324	33.91	324	34.18	324	34.61	322	34.87	322	34.17
	5	4.5	358.1	33.79	358.1	34.06	358.1	34.33	357.2	34.6	356.2	34.87	356.2	34.34	356.2	33.43	354.2	32.67
	10	9	376.2	34.05	374.3	34.33	372.3	34.6	372.3	34.87	372.3	34.2	372.3	33.8	370.4	32.8	370.4	31.91
	15	14	398.5	34.68	398.5	34.87	398.5	34.69	397.5	33.83	396.6	33.15	396.6	32.56	396.6	31.58	394.6	30.68
	20	19	419.7	34.61	417.8	34.21	415.9	33.81	415.9	33.01	415.9	32.23	414	31.64	414	30.74	414	29.85
	25	23	433.9	34.05	433.9	33.65	433.9	33.25	432.9	32.46	432	31.54	432	31.02	432	29.76	413.1	28.97
	30	28	433.8	33.35	433.8	32.92	433.8	32.48	432.9	31.7	432	30.88	432	30.26	426.5	29.09	397.4	28.36
	35	32	438.9	32.27	437.2	31.85	435.5	31.43	433.7	30.59	432	29.9	418.2	29.08	404.4	28.04	376.7	27.23
	40	36	463.1	31.39	461.4	30.93	459.6	30.48	445.8	29.54	432	28.99	418.2	28.16	404.4	26.92	376.7	26.11
	45	41	494.2	30.7	476.9	30.22	459.6	29.74	445.8	28.91	432	28.38	418.2	27.26	404.4	26.18	376.7	25.34
	47	**43**	514.9	30.06	487.3	29.6	459.6	29.15	445.8	28.23	**432**	**27.74**	418.2	26.54	404.4	25.39	376.7	24.42
	50	46	514.9	29.39	487.3	28.89	459.6	28.4	445.8	27.68	432	27.05	418.2	25.96	404.4	24.65	376.7	23.83
	55	51	514.9	28.73	487.3	28.22	459.6	27.72	445.8	26.87	432	26.19	418.2	25.21	404.4	23.95	376.7	23.11
	60	56	514.9	27.43	487.3	26.92	459.6	26.41	445.8	25.38	432	24.55	418.2	23.57	404.4	22.57	376.7	21.62
90	-4	-4.4	316.7	31.12	316.7	31.48	316.7	31.85	315.7	32.33	314.7	32.6	314.7	32.94	314.7	32.8	314.7	31.68
	0	-0.4	324.7	31.31	324.7	31.71	324.7	32.1	323.7	32.54	322.7	32.83	322.7	33.07	322.7	32.39	320.7	31.22
	5	4.5	356.8	32.17	356.8	32.51	356.8	32.85	355.9	33.07	354.9	32.73	354.9	31.83	354.9	31.03	354.9	29.72
	10	9	374.9	32.56	373	32.82	371	33.08	371	32.51	371	31.9	371	31.13	371	30.21	369.1	28.91
	15	14	397.2	33.07	397.2	32.76	397.2	32.12	396.2	31.56	395.3	30.49	395.3	29.88	395.3	29.09	376.1	27.95
	20	19	398.9	32.29	397.1	31.85	395.3	31.12	395.3	30.4	395.3	29.6	395.3	29.08	382.6	28.29	355.4	27.19
	25	23	400.5	31.62	400.5	31.1	400.5	30.28	397.9	29.57	395.3	28.93	383	28.38	370.7	27.53	344.3	26.3
	30	28	419.9	31.01	418.1	30.43	416.3	29.7	405.8	28.96	395.3	28.27	383	27.7	370.7	26.87	344.3	25.69
	35	32	465.5	30.01	442.7	29.54	419.9	28.82	407.6	28	395.3	27.35	383	26.63	370.7	25.72	344.3	24.62
	40	36	472.6	29.13	446.2	28.58	419.9	27.91	407.6	27.24	395.3	26.44	383	25.71	370.7	24.93	344.3	23.54
	45	41	472.6	28.52	446.2	27.96	419.9	27.24	407.6	26.61	395.3	25.77	383	24.97	370.7	24.14	344.3	22.9
	47	43	472.6	27.91	446.2	27.32	419.9	26.64	407.6	25.82	395.3	25.12	383	24.27	370.7	23.54	344.3	22.2
	50	46	472.6	27.35	446.2	26.77	419.9	25.96	407.6	24.98	395.3	24.31	383	23.54	370.7	22.8	344.3	21.37
	55	51	472.6	26.74	446.2	26.06	419.9	25.13	407.6	24.21	395.3	23.49	383	22.74	370.7	21.95	344.3	20.75
	60	56	472.6	25.02	446.2	24.3	419.9	23.45	407.6	22.59	395.3	21.86	383	21.1	370.7	20.33	344.3	19.32
80	-4	-4.4	313.4	27.66	313.4	27.92	313.4	28.17	313.4	28.43	313.4	28.85	313.4	29.18	311.4	29.21	311.4	28.44
	0	-0.4	321.4	27.91	321.4	28.14	321.4	28.43	321.4	28.71	321.4	29.08	319.4	29.32	319.4	28.94	319.4	28.05
	5	4.5	353.6	28.71	353.6	28.93	353.6	29.15	353.6	29.33	353.6	28.99	353.6	28.18	351.7	27.52	338.1	26.68
	10	9	355.4	29.04	355.4	29.18	355.4	29.33	354.5	28.79	353.6	28.16	353.6	27.37	346.2	26.87	322.1	25.9
	15	14	364.2	29.32	364.2	29.02	364.2	28.39	358.9	27.62	353.6	26.82	343	26.32	330.6	25.74	307.6	24.91
	20	19	394.3	29	385.4	28.21	376.6	27.42	365.1	26.63	353.6	25.83	343	25.34	330.6	24.92	307.6	24.07
	25	23	422.5	28.33	399.6	27.57	376.6	26.81	365.1	25.92	353.6	25.19	343	24.66	330.6	24.17	307.6	23.31
	30	28	422.5	27.68	399.6	26.96	376.6	26.11	365.1	25.25	353.6	24.52	343	23.94	330.6	23.44	307.6	22.49
	35	32	422.5	26.58	399.6	25.83	376.6	25.08	365.1	24.33	353.6	23.61	343	22.98	330.6	22.34	307.6	21.43
	40	36	422.5	25.38	399.6	24.74	376.6	24.11	365.1	23.32	353.6	22.61	343	21.9	330.6	21.26	307.6	20.35
	45	41	422.5	24.63	399.6	24	376.6	23.36	365.1	22.77	353.6	22.03	343	21.16	330.6	20.51	307.6	19.52
	47	43	422.5	23.92	399.6	23.3	376.6	22.69	365.1	22.03	353.6	21.38	343	20.49	330.6	19.81	307.6	18.92
	50	46	422.5	23.23	399.6	22.58	376.6	21.93	365.1	21.23	353.6	20.56	343	19.68	330.6	19.01	307.6	18.12
	55	51	422.5	22.44	399.6	21.83	376.6	21.22	365.1	20.54	353.6	19.75	343	18.95	330.6	18.43	307.6	17.36
	60	56	422.5	20.8	399.6	20.25	376.6	19.71	365.1	18.91	353.6	18.11	343	17.39	330.6	16.86	307.6	15.84

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN384BT3, ARUN384DT3 / ARUB384BT3, ARUB384DT3

Heating Capacity

384,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	314.8	26.76	313	27.07	311.3	27.39	306.2	27.77	301	28.39	290.7	28.58	282.1	28.56	263.2	28.11
	0	-0.4	337.1	27.48	328.5	27.68	319.9	27.89	310.5	28.31	301	28.6	290.7	28.63	282.1	28.43	263.2	27.87
	5	4.5	357.8	28.43	338.8	28.52	319.9	28.6	310.5	28.63	301	27.99	290.7	27.42	282.1	26.93	263.2	25.88
	10	9	357.8	28.51	338.8	28.57	319.9	28.63	310.5	27.66	301	26.77	290.7	26.07	282.1	25.4	263.2	23.95
	15	14	357.8	28.63	338.8	28.24	319.9	27.05	310.5	25.76	301	24.44	290.7	23.4	282.1	22.83	263.2	21.91
	20	19	357.8	27.13	338.8	26.25	319.9	25.2	310.5	24.16	301	23.33	290.7	22.46	282.1	21.86	263.2	20.94
	25	23	357.8	25.94	338.8	25.17	319.9	24.21	310.5	23.26	301	22.55	290.7	21.66	282.1	21.07	263.2	20.27
	30	28	357.8	24.97	338.8	24.25	319.9	23.42	310.5	22.6	301	21.86	290.7	21.14	282.1	20.59	263.2	19.63
	35	32	357.8	23.58	338.8	22.97	319.9	22.3	310.5	21.35	301	20.81	290.7	20.07	282.1	19.58	263.2	18.39
	40	36	357.8	22.74	338.8	22.03	319.9	21.31	310.5	20.43	301	19.75	290.7	19.02	282.1	18.44	263.2	17.36
	45	41	357.8	22.15	338.8	21.39	319.9	20.62	310.5	19.7	301	19.03	290.7	18.26	282.1	17.63	263.2	16.76
	47	43	357.8	21.34	338.8	20.55	319.9	19.75	310.5	18.96	301	18.33	290.7	17.5	282.1	16.97	263.2	15.95
	50	46	357.8	20.71	338.8	19.92	319.9	19.13	310.5	18.18	301	17.62	290.7	16.89	282.1	16.31	263.2	15.2
	55	51	357.8	20.17	338.8	19.31	319.9	18.45	310.5	17.48	301	16.81	290.7	16.05	282.1	15.52	263.2	14.42
	60	56	357.8	18.58	338.8	17.75	319.9	16.93	310.5	15.86	301	15.17	290.7	14.46	282.1	13.92	263.2	13.03
60	-4	-4.4	270	26.29	270	26.75	270	27.2	264	27.66	258	28.16	249.4	27.82	240.8	27.66	225.3	25.64
	0	-0.4	282.1	26.35	278.6	26.85	275.2	27.36	266.6	27.97	258	28.31	249.4	27.66	240.8	26.9	225.3	24.72
	5	4.5	306.2	27.38	290.7	28.02	275.2	28.62	266.6	27.36	258	25.33	249.4	24.37	240.8	23.45	225.3	21.58
	10	9	306.2	28.02	290.7	28.63	275.2	27.51	266.6	25.64	258	23.76	249.4	23	240.8	22.04	225.3	20.32
	15	14	306.2	27.77	290.7	26.53	275.2	25.34	266.6	23.6	258	22.02	249.4	21.25	240.8	20.45	225.3	18.87
	20	19	306.2	26.38	290.7	25.34	275.2	24.25	266.6	22.64	258	21.03	249.4	20.24	240.8	19.61	225.3	18
	25	23	306.2	25.3	290.7	24.22	275.2	23.14	266.6	21.56	258	20.11	249.4	19.28	240.8	18.65	225.3	17.19
	30	28	306.2	24.07	290.7	23.08	275.2	22.09	266.6	20.63	258	19.33	249.4	18.54	240.8	17.91	225.3	16.61
	35	32	306.2	22.44	290.7	21.57	275.2	20.71	266.6	19.4	258	18.13	249.4	17.46	240.8	16.83	225.3	15.52
	40	36	306.2	20.85	290.7	20.15	275.2	19.45	266.6	18.33	258	17.02	249.4	16.41	240.8	15.82	225.3	14.71
	45	41	306.2	19.99	290.7	19.25	275.2	18.51	266.6	17.38	258	16.29	249.4	15.62	240.8	15.16	225.3	14.06
	47	43	306.2	19	290.7	18.26	275.2	17.52	266.6	16.41	258	15.65	249.4	15.04	240.8	14.43	225.3	13.42
	50	46	306.2	18.35	290.7	17.67	275.2	17	266.6	15.96	258	14.97	249.4	14.57	240.8	13.92	225.3	13.06
	55	51	306.2	17.49	290.7	16.87	275.2	16.26	266.6	15.3	258	14.39	249.4	13.93	240.8	13.43	225.3	12.51
	60	56	306.2	16.49	290.7	15.9	275.2	15.3	266.6	14.39	258	13.43	249.4	12.97	240.8	12.51	225.3	11.71
50	-4	-4.4	256.3	26.54	242.5	26.35	228.8	26.13	221.9	25.23	215	24.33	208.1	23.42	201.2	22.5	187.5	20.66
	0	-0.4	256.3	26.19	242.5	26.12	228.8	25.21	221.9	24.37	215	23.53	208.1	22.61	201.2	21.73	187.5	20.01
	5	4.5	256.3	23.57	242.5	22.86	228.8	22.12	221.9	21.33	215	20.55	208.1	19.9	201.2	19.13	187.5	17.68
	10	9	256.3	22.07	242.5	21.45	228.8	20.81	221.9	20.09	215	19.36	208.1	18.71	201.2	18.06	187.5	16.64
	15	14	256.3	20.28	242.5	19.72	228.8	19.13	221.9	18.48	215	17.83	208.1	17.29	201.2	16.64	187.5	15.34
	20	19	256.3	19.07	242.5	18.57	228.8	18.06	221.9	17.41	215	16.76	208.1	16.26	201.2	15.61	187.5	14.58
	25	23	256.3	18.17	242.5	17.69	228.8	17.18	221.9	16.59	215	15.99	208.1	15.46	201.2	14.96	187.5	13.93
	30	28	256.3	17.5	242.5	16.95	228.8	16.38	221.9	15.86	215	15.34	208.1	14.81	201.2	14.31	187.5	13.28
	35	32	256.3	16.13	242.5	15.8	228.8	15.46	221.9	14.94	215	14.42	208.1	13.93	201.2	13.51	187.5	12.47
	40	36	256.3	15.24	242.5	14.92	228.8	14.58	221.9	14.12	215	13.66	208.1	13.12	201.2	12.74	187.5	11.82
	45	41	256.3	14.82	242.5	14.44	228.8	14.04	221.9	13.58	215	13.12	208.1	12.74	201.2	12.36	187.5	11.44
	47	43	256.3	14.13	242.5	13.79	228.8	13.43	221.9	13.09	215	12.75	208.1	12.11	201.2	11.74	187.5	10.95
	50	46	256.3	13.74	242.5	13.44	228.8	13.12	221.9	12.74	215	12.36	208.1	11.98	201.2	11.59	187.5	10.79
	55	51	256.3	13.31	242.5	13.03	228.8	12.74	221.9	12.36	215	11.98	208.1	11.59	201.2	11.17	187.5	10.52
	60	56	256.3	12.6	242.5	12.3	228.8	11.98	221.9	11.65	215	11.33	208.1	10.94	201.2	10.52	187.5	9.87

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN408BT3, ARUN408DT3 / ARUB408BT3, ARUB408DT3

408,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	342.4	28.4	342.4	29.05	342.4	29.69	341.4	30.34	340.3	30.88	340.3	31.47	340.3	32.15	338.2	32.97
	0	-0.4	350.9	28.98	350.9	29.56	350.9	30.13	349.9	30.71	348.8	31.26	348.8	31.74	346.7	32.5	346.7	33.38
	5	4.5	385.1	30.15	385.1	30.76	385.1	31.37	384.1	31.97	383.1	32.3	383.1	33.21	383.1	34.13	381	35.04
	10	9	404.3	30.67	402.3	31.29	400.2	31.91	400.2	32.53	400.2	32.77	398.2	33.83	398.2	34.89	398.2	35.75
	15	14	428	31.63	428	32.3	428	32.97	427	33.64	426	33.95	426	34.9	426	35.96	423.9	36.79
	20	19	450.6	32.52	448.6	33.16	446.5	33.79	446.5	34.43	446.5	34.72	444.5	35.67	444.5	36.79	444.5	36.19
	25	23	465.6	33.05	465.6	33.75	465.6	34.44	464.6	35.13	463.6	35.52	463.6	36.49	463.6	36.5	461.6	35.7
	30	28	485.8	33.63	483.8	34.34	481.8	35.04	480.8	35.74	479.8	36.2	479.8	36.79	479.8	35.99	477.8	35.11
	35	32	509.1	34.58	507.1	35.22	505.2	35.86	505.2	36.49	505.2	36.79	505.2	36.08	503.2	35.07	503.2	34.18
	40	36	533.4	35.58	531.4	36.07	529.4	36.43	529.4	36.79	529.4	36.2	529.4	35.02	527.4	34.18	527.4	33.17
	45	41	547.1	36.14	547.1	36.57	547.1	36.79	546.1	36.2	545.2	35.31	545.2	34.31	543.2	33.41	543.2	32.38
	47	43	562.7	36.58	562.7	36.79	562.7	36.08	561.7	35.37	560.8	34.57	560.8	33.57	560.8	32.57	554.9	31.59
	50	46	578.1	36.79	578.1	36.17	578.1	35.45	577.2	34.72	576.2	33.71	576.2	32.68	576.2	31.78	552.7	30.6
	55	51	597.3	36.24	595.3	35.43	593.4	34.61	592.4	33.8	591.4	32.95	591.4	31.86	591.4	30.74	550.6	29.73
	60	56	593.2	34.31	593.2	33.56	593.2	32.81	592.3	32.06	591.4	30.7	576.8	29.73	556.6	28.72	518.2	27.63
120	-4	-4.4	345.3	30.75	343.2	31.08	341	31.41	340	31.74	338.9	32.36	338.9	32.95	338.9	33.45	336.8	34.12
	0	-0.4	349.6	31.06	349.6	31.41	349.6	31.76	348.5	32.12	347.4	32.74	347.4	33.24	347.4	33.7	345.3	34.44
	5	4.5	387.9	32.09	385.8	32.51	383.7	32.94	382.7	33.36	381.7	33.78	381.7	34.45	381.7	34.89	379.6	35.93
	10	9	400.9	32.68	400.9	33.07	400.9	33.47	399.8	33.87	398.8	34.25	398.8	34.99	398.8	35.53	396.8	36.64
	15	14	428.6	33.78	426.6	34.2	424.6	34.54	424.6	34.88	424.6	35.43	422.5	36.02	422.5	36.65	420.5	36.44
	20	19	447.2	34.47	447.2	34.85	447.2	35.23	446.1	35.61	445.1	36.35	445.1	36.64	445.1	36.32	443.1	35.91
	25	23	466.2	34.99	464.2	35.34	462.2	35.77	462.2	36.2	462.2	36.64	460.2	36.15	460.2	35.8	460.2	35.4
	30	28	482.4	35.57	480.4	35.93	478.4	36.29	478.4	36.64	478.4	36.11	478.4	35.64	476.4	35.24	476.4	34.89
	35	32	505.7	36.07	505.7	36.36	505.7	36.64	504.7	35.89	503.8	35.31	503.8	34.72	503.8	34.33	501.8	33.94
	40	36	530	36.46	530	36.64	530	35.9	529	35.04	528	34.34	528	33.83	528	33.49	516.2	33.03
	45	41	545.7	36.64	545.7	36.01	545.7	35.29	544.7	34.43	543.8	33.75	543.8	33.16	543.8	32.81	514.2	32.36
	47	43	561.3	36.05	561.3	35.38	561.3	34.7	560.3	33.76	559.4	33.1	559.4	32.46	551.5	32.16	512.2	31.58
	50	46	563.1	35.44	561.2	34.76	559.4	34.09	559.4	33.2	559.4	32.39	549.9	31.71	532.8	31.48	494.9	30.86
	55	51	570.5	34.84	568.7	34.14	566.8	33.45	563.1	32.53	559.4	31.71	540.7	30.99	523.9	30.66	486.6	30.02
	60	56	603.3	33.3	599	32.62	594.8	31.94	577.1	30.67	559.4	29.55	540.7	28.62	523.9	28.19	486.6	27.4
110	-4	-4.4	341.3	33.19	339.2	33.44	337.1	33.68	337.1	33.93	337.1	34.34	337.1	34.75	335	35.34	335	35.91
	0	-0.4	349.8	33.48	347.7	33.75	345.6	34.01	345.6	34.28	345.6	34.72	343.5	35.22	343.5	35.74	343.5	36.3
	5	4.5	384	34.51	381.9	34.84	379.8	35.17	379.8	35.45	379.8	35.81	379.8	36.25	377.8	37.02	377.8	36.8
	10	9	399	35.02	399	35.37	399	35.72	398	36.02	397	36.34	397	37.02	397	36.78	394.9	36.19
	15	14	426.8	35.75	424.8	36.2	422.7	36.65	422.7	37.03	422.7	36.82	422.7	36.52	420.7	36.02	420.7	35.28
	20	19	445.3	36.46	445.3	37.03	445.3	36.55	444.3	36.26	443.3	35.96	443.3	35.67	443.3	35.16	441.3	34.38
	25	23	464.4	37.03	462.4	36.32	460.4	35.87	460.4	35.58	460.4	35.28	460.4	34.93	458.4	34.49	458.4	33.76
	30	28	478.6	36.35	478.6	35.67	478.6	35.23	477.6	34.85	476.6	34.58	476.6	34.22	476.6	33.8	474.5	33.07
	35	32	501.9	35.18	501.9	34.74	501.9	34.3	501.9	33.85	501.9	33.6	499.9	33.24	499.9	32.75	476.1	31.99
	40	36	503.8	34.22	503.8	33.78	503.8	33.33	502.9	32.89	501.9	32.62	501.9	32.18	484.9	31.72	452.9	31.09
	45	41	507.4	33.63	505.6	33.18	503.7	32.72	502.8	32.27	501.9	31.91	485.5	31.53	469.1	31.16	438	30.31
	47	43	523.8	32.94	522	32.51	520.2	32.07	511	31.59	501.9	31.23	485.5	30.85	469.1	30.46	438	29.52
	50	46	542.1	32.17	538.4	31.74	534.8	31.31	518.3	30.91	501.9	30.35	485.5	30.02	469.1	29.5	438	28.7
	55	51	574.9	31.49	554.8	31.01	534.8	30.52	518.3	30.04	501.9	29.49	485.5	29.17	469.1	28.74	438	27.87
	60	56	596.8	29.22	565.8	28.95	534.8	28.68	518.3	28.41	501.9	27.84	485.5	27.51	469.1	27.01	438	26.29

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

ARUN408BT3, ARUN408DT3 / ARUB408BT3, ARUB408DT3

Heating Capacity

408,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	337.8	34.9	337.8	35.17	337.8	35.43	336.8	35.7	335.7	36.02	335.7	36.6	335.7	36.9	333.6	36.85
	0	-0.4	348.4	35.14	346.3	35.47	344.2	35.79	344.2	36.12	344.2	36.41	344.2	36.87	342.1	37.15	342.1	36.4
	5	4.5	380.5	36	380.5	36.28	380.5	36.57	379.5	36.86	378.4	37.14	378.4	36.59	378.4	35.61	376.4	34.8
	10	9	399.7	36.28	397.7	36.57	395.6	36.85	395.6	37.14	395.6	36.44	395.6	36	393.6	34.94	393.6	33.99
	15	14	423.4	36.94	423.4	37.14	423.4	36.95	422.4	36.04	421.4	35.31	421.4	34.69	421.4	33.64	419.3	32.68
	20	19	445.9	36.87	443.9	36.44	441.9	36.02	441.9	35.16	441.9	34.34	439.9	33.71	439.9	32.75	439.9	31.79
	25	23	461	36.27	461	35.85	461	35.42	460	34.57	459	33.6	459	33.04	459	31.71	438.9	30.87
	30	28	460.9	35.52	460.9	35.06	460.9	34.6	460	33.77	459	32.89	459	32.24	453.2	30.99	422.2	30.21
	35	32	466.3	34.37	464.5	33.92	462.7	33.48	460.8	32.58	459	31.85	444.3	30.98	429.6	29.87	400.2	29.01
	40	36	492	33.43	490.2	32.95	488.4	32.46	473.7	31.47	459	30.88	444.3	29.99	429.6	28.67	400.2	27.82
	45	41	525.1	32.7	506.7	32.19	488.4	31.68	473.7	30.8	459	30.23	444.3	29.04	429.6	27.89	400.2	26.99
	47	**43**	547.1	32.02	517.8	31.54	488.4	31.05	473.7	30.07	**459**	**29.55**	444.3	28.27	429.6	27.05	400.2	26.01
	50	46	547.1	31.3	517.8	30.78	488.4	30.25	473.7	29.49	459	28.81	444.3	27.65	429.6	26.25	400.2	25.38
	55	51	547.1	30.6	517.8	30.07	488.4	29.53	473.7	28.62	459	27.9	444.3	26.85	429.6	25.51	400.2	24.62
	60	56	547.1	29.22	517.8	28.68	488.4	28.13	473.7	27.04	459	26.15	444.3	25.11	429.6	24.04	400.2	23.03
90	-4	-4.4	336.4	33.15	336.4	33.54	336.4	33.93	335.4	34.43	334.3	34.73	334.3	35.09	334.3	34.94	334.3	33.74
	0	-0.4	345	33.35	345	33.78	345	34.2	343.9	34.67	342.9	34.97	342.9	35.23	342.9	34.5	340.7	33.26
	5	4.5	379.1	34.27	379.1	34.63	379.1	34.99	378.1	35.22	377.1	34.87	377.1	33.91	377.1	33.06	377.1	31.66
	10	9	398.3	34.68	396.3	34.96	394.2	35.23	394.2	34.64	394.2	33.98	394.2	33.16	394.2	32.18	392.2	30.8
	15	14	422	35.22	422	34.9	422	34.21	421	33.62	420	32.48	420	31.83	420	30.99	399.6	29.78
	20	19	423.8	34.4	421.9	33.92	420	33.16	420	32.39	420	31.53	420	30.98	406.5	30.14	377.6	28.96
	25	23	425.6	33.69	425.6	33.13	425.6	32.25	422.8	31.5	420	30.82	406.9	30.23	393.8	29.33	365.8	28.02
	30	28	446.1	33.04	444.2	32.42	442.4	31.63	431.2	30.85	420	30.11	406.9	29.51	393.8	28.62	365.8	27.36
	35	32	494.6	31.97	470.4	31.47	446.1	30.7	433	29.83	420	29.14	406.9	28.37	393.8	27.39	365.8	26.23
	40	36	502.1	31.03	474.1	30.45	446.1	29.73	433	29.01	420	28.16	406.9	27.38	393.8	26.56	365.8	25.07
	45	41	502.1	30.38	474.1	29.79	446.1	29.02	433	28.34	420	27.45	406.9	26.6	393.8	25.71	365.8	24.39
	47	43	502.1	29.73	474.1	29.11	446.1	28.37	433	27.5	420	26.76	406.9	25.85	393.8	25.08	365.8	23.65
	50	46	502.1	29.14	474.1	28.52	446.1	27.66	433	26.61	420	25.89	406.9	25.08	393.8	24.28	365.8	22.76
	55	51	502.1	28.49	474.1	27.76	446.1	26.78	433	25.79	420	25.02	406.9	24.22	393.8	23.39	365.8	22.11
	60	56	502.1	26.65	474.1	25.88	446.1	24.98	433	24.07	420	23.29	406.9	22.47	393.8	21.66	365.8	20.58
80	-4	-4.4	333	29.46	333	29.74	333	30.01	333	30.29	333	30.74	333	31.08	330.9	31.12	330.9	30.29
	0	-0.4	341.5	29.73	341.5	29.98	341.5	30.28	341.5	30.59	341.5	30.98	339.4	31.24	339.4	30.82	339.4	29.88
	5	4.5	375.7	30.58	375.7	30.82	375.7	31.06	375.7	31.24	375.7	30.88	375.7	30.02	373.6	29.32	359.2	28.42
	10	9	377.7	30.93	377.7	31.09	377.7	31.24	376.7	30.67	375.7	29.99	375.7	29.15	367.8	28.62	342.3	27.59
	15	14	387	31.23	387	30.91	387	30.24	381.3	29.42	375.7	28.57	364.4	28.04	351.3	27.42	326.9	26.54
	20	19	418.9	30.89	409.5	30.05	400.1	29.21	387.9	28.37	375.7	27.51	364.4	26.99	351.3	26.55	326.9	25.64
	25	23	449	30.18	424.5	29.37	400.1	28.56	387.9	27.62	375.7	26.83	364.4	26.27	351.3	25.75	326.9	24.84
	30	28	449	29.49	424.5	28.72	400.1	27.81	387.9	26.9	375.7	26.12	364.4	25.5	351.3	24.97	326.9	23.95
	35	32	449	28.31	424.5	27.52	400.1	26.72	387.9	25.92	375.7	25.15	364.4	24.47	351.3	23.8	326.9	22.82
	40	36	449	27.04	424.5	26.36	400.1	25.68	387.9	24.84	375.7	24.08	364.4	23.33	351.3	22.65	326.9	21.67
	45	41	449	26.24	424.5	25.56	400.1	24.88	387.9	24.25	375.7	23.46	364.4	22.54	351.3	21.85	326.9	20.8
	47	43	449	25.48	424.5	24.82	400.1	24.17	387.9	23.46	375.7	22.77	364.4	21.82	351.3	21.11	326.9	20.15
	50	46	449	24.75	424.5	24.05	400.1	23.36	387.9	22.62	375.7	21.9	364.4	20.96	351.3	20.25	326.9	19.31
	55	51	449	23.91	424.5	23.26	400.1	22.6	387.9	21.88	375.7	21.03	364.4	20.18	351.3	19.63	326.9	18.49
	60	56	449	22.15	424.5	21.57	400.1	20.99	387.9	20.15	375.7	19.3	364.4	18.53	351.3	17.96	326.9	16.87

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN408BT3, ARUN408DT3 / ARUB408BT3, ARUB408DT3

408,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	334.4	28.51	332.6	28.84	330.8	29.17	325.3	29.58	319.8	30.24	308.8	30.44	299.7	30.42	279.6	29.95
	0	-0.4	358.2	29.27	349.1	29.49	339.9	29.71	329.9	30.15	319.8	30.47	308.8	30.5	299.7	30.28	279.6	29.69
	5	4.5	380.1	30.28	360	30.38	339.9	30.47	329.9	30.5	319.8	29.82	308.8	29.21	299.7	28.69	279.6	27.57
	10	9	380.1	30.38	360	30.44	339.9	30.5	329.9	29.46	319.8	28.52	308.8	27.77	299.7	27.06	279.6	25.52
	15	14	380.1	30.5	360	30.08	339.9	28.82	329.9	27.44	319.8	26.03	308.8	24.93	299.7	24.31	279.6	23.34
	20	19	380.1	28.9	360	27.96	339.9	26.85	329.9	25.74	319.8	24.85	308.8	23.92	299.7	23.29	279.6	22.31
	25	23	380.1	27.63	360	26.81	339.9	25.79	329.9	24.78	319.8	24.02	308.8	23.07	299.7	22.44	279.6	21.6
	30	28	380.1	26.6	360	25.83	339.9	24.95	329.9	24.08	319.8	23.29	308.8	22.52	299.7	21.93	279.6	20.91
	35	32	380.1	25.12	360	24.47	339.9	23.75	329.9	22.75	319.8	22.16	308.8	21.38	299.7	20.86	279.6	19.59
	40	36	380.1	24.22	360	23.46	339.9	22.7	329.9	21.76	319.8	21.04	308.8	20.26	299.7	19.64	279.6	18.49
	45	41	380.1	23.6	360	22.78	339.9	21.97	329.9	20.98	319.8	20.27	308.8	19.45	299.7	18.78	279.6	17.85
	47	43	380.1	22.73	360	21.89	339.9	21.04	329.9	20.2	319.8	19.52	308.8	18.64	299.7	18.08	279.6	16.99
	50	46	380.1	22.06	360	21.22	339.9	20.38	329.9	19.37	319.8	18.77	308.8	17.99	299.7	17.38	279.6	16.19
	55	51	380.1	21.48	360	20.57	339.9	19.65	329.9	18.62	319.8	17.9	308.8	17.1	299.7	16.53	279.6	15.36
	60	56	380.1	19.79	360	18.91	339.9	18.04	329.9	16.9	319.8	16.16	308.8	15.4	299.7	14.83	279.6	13.89
60	-4	-4.4	286.9	28	286.9	28.49	286.9	28.98	280.5	29.47	274.1	30	265	29.63	255.9	29.47	239.4	27.31
	0	-0.4	299.7	28.07	296.1	28.6	292.4	29.14	283.3	29.79	274.1	30.16	265	29.47	255.9	28.65	239.4	26.33
	5	4.5	325.3	29.17	308.8	29.85	292.4	30.49	283.3	29.14	274.1	26.98	265	25.96	255.9	24.99	239.4	22.99
	10	9	325.3	29.85	308.8	30.5	292.4	29.31	283.3	27.31	274.1	25.31	265	24.5	255.9	23.48	239.4	21.64
	15	14	325.3	29.58	308.8	28.26	292.4	26.99	283.3	25.14	274.1	23.46	265	22.64	255.9	21.78	239.4	20.1
	20	19	325.3	28.1	308.8	27	292.4	25.83	283.3	24.11	274.1	22.4	265	21.56	255.9	20.89	239.4	19.17
	25	23	325.3	26.95	308.8	25.8	292.4	24.65	283.3	22.97	274.1	21.42	265	20.54	255.9	19.87	239.4	18.32
	30	28	325.3	25.64	308.8	24.59	292.4	23.53	283.3	21.98	274.1	20.59	265	19.75	255.9	19.08	239.4	17.69
	35	32	325.3	23.9	308.8	22.98	292.4	22.06	283.3	20.67	274.1	19.32	265	18.6	255.9	17.93	239.4	16.53
	40	36	325.3	22.21	308.8	21.46	292.4	20.71	283.3	19.53	274.1	18.14	265	17.48	255.9	16.85	239.4	15.67
	45	41	325.3	21.3	308.8	20.51	292.4	19.72	283.3	18.52	274.1	17.35	265	16.64	255.9	16.14	239.4	14.98
	47	43	325.3	20.24	308.8	19.45	292.4	18.67	283.3	17.49	274.1	16.67	265	16.02	255.9	15.37	239.4	14.29
	50	46	325.3	19.55	308.8	18.83	292.4	18.11	283.3	17	274.1	15.95	265	15.53	255.9	14.83	239.4	13.91
	55	51	325.3	18.63	308.8	17.97	292.4	17.32	283.3	16.3	274.1	15.33	265	14.84	255.9	14.31	239.4	13.33
	60	56	325.3	17.57	308.8	16.94	292.4	16.3	283.3	15.33	274.1	14.31	265	13.82	255.9	13.33	239.4	12.47
50	-4	-4.4	272.3	28.27	257.7	28.07	243.1	27.84	235.7	26.88	228.4	25.92	221.1	24.94	213.8	23.97	199.2	22.01
	0	-0.4	272.3	27.9	257.7	27.83	243.1	26.86	235.7	25.96	228.4	25.07	221.1	24.09	213.8	23.15	199.2	21.32
	5	4.5	272.3	25.11	257.7	24.35	243.1	23.56	235.7	22.72	228.4	21.89	221.1	21.19	213.8	20.38	199.2	18.83
	10	9	272.3	23.51	257.7	22.85	243.1	22.17	235.7	21.4	228.4	20.62	221.1	19.93	213.8	19.24	199.2	17.73
	15	14	272.3	21.61	257.7	21	243.1	20.38	235.7	19.69	228.4	18.99	221.1	18.42	213.8	17.73	199.2	16.34
	20	19	272.3	20.31	257.7	19.78	243.1	19.24	235.7	18.55	228.4	17.85	221.1	17.32	213.8	16.63	199.2	15.53
	25	23	272.3	19.36	257.7	18.84	243.1	18.3	235.7	17.67	228.4	17.04	221.1	16.47	213.8	15.94	199.2	14.84
	30	28	272.3	18.64	257.7	18.05	243.1	17.44	235.7	16.89	228.4	16.34	221.1	15.77	213.8	15.24	199.2	14.14
	35	32	272.3	17.18	257.7	16.83	243.1	16.47	235.7	15.92	228.4	15.37	221.1	14.84	213.8	14.39	199.2	13.29
	40	36	272.3	16.24	257.7	15.89	243.1	15.53	235.7	15.04	228.4	14.55	221.1	13.98	213.8	13.57	199.2	12.59
	45	41	272.3	15.78	257.7	15.38	243.1	14.96	235.7	14.47	228.4	13.98	221.1	13.57	213.8	13.17	199.2	12.19
	47	43	272.3	15.05	257.7	14.69	243.1	14.3	235.7	13.94	228.4	13.58	221.1	12.9	213.8	12.5	199.2	11.66
	50	46	272.3	14.64	257.7	14.32	243.1	13.98	235.7	13.57	228.4	13.17	221.1	12.76	213.8	12.35	199.2	11.49
	55	51	272.3	14.18	257.7	13.88	243.1	13.57	235.7	13.17	228.4	12.76	221.1	12.35	213.8	11.9	199.2	11.21
	60	56	272.3	13.42	257.7	13.1	243.1	12.76	235.7	12.41	228.4	12.06	221.1	11.66	213.8	11.21	199.2	10.52

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN432BT3, ARUN432DT3 / ARUB432BT3, ARUB432DT3 — Heating Capacity

432,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
130	-4	-4.4	362.6	30.11	362.6	30.79	362.6	31.47	361.5	32.16	360.3	32.73	360.3	33.36	360.3	34.08	358.1	34.94
	0	-0.4	371.6	30.72	371.6	31.33	371.6	31.94	370.5	32.55	369.4	33.14	369.4	33.64	367.1	34.44	367.1	35.38
	5	4.5	407.8	31.96	407.8	32.6	407.8	33.25	406.7	33.89	405.6	34.23	405.6	35.2	405.6	36.18	403.4	37.14
	10	9	428.1	32.51	425.9	33.17	423.8	33.82	423.8	34.48	423.8	34.73	421.6	35.86	421.6	36.98	421.6	37.89
	15	14	453.2	33.52	453.2	34.23	453.2	34.95	452.1	35.66	451	35.99	451	36.99	451	38.12	448.9	38.99
	20	19	477.1	34.47	474.9	35.14	472.8	35.81	472.8	36.49	472.8	36.8	470.7	37.8	470.7	38.99	470.7	38.36
	25	23	493	35.03	493	35.77	493	36.5	492	37.24	490.9	37.65	490.9	38.68	490.9	38.69	488.8	37.84
	30	28	514.4	35.65	512.3	36.39	510.1	37.14	509.1	37.88	508	38.37	508	38.99	508	38.15	505.9	37.21
	35	32	539.1	36.65	537	37.33	534.9	38	534.9	38.68	534.9	38.99	534.9	38.24	532.8	37.17	532.8	36.23
	40	36	564.8	37.71	562.7	38.23	560.6	38.61	560.6	38.99	560.6	38.37	560.6	37.11	558.5	36.23	558.5	35.16
	45	41	579.3	38.3	579.3	38.76	579.3	38.99	578.3	38.37	577.2	37.43	577.2	36.36	575.1	35.41	575.1	34.32
	47	43	595.8	38.77	595.8	39	595.8	38.24	594.8	37.49	593.7	36.64	593.7	35.58	593.7	34.52	587.5	33.48
	50	46	612.1	38.99	612.1	38.34	612.1	37.57	611.1	36.8	610.1	35.73	610.1	34.64	610.1	33.68	585.3	32.43
	55	51	632.4	38.41	630.3	37.55	628.3	36.68	627.2	35.82	626.2	34.92	626.2	33.77	626.2	32.59	583	31.51
	60	56	628.1	36.36	628.1	35.57	628.1	34.78	627.2	33.98	626.2	32.54	610.7	31.51	589.4	30.44	548.7	29.29
120	-4	-4.4	365.6	32.59	363.3	32.94	361.1	33.29	360	33.64	358.9	34.3	358.9	34.92	358.9	35.45	356.6	36.16
	0	-0.4	370.1	32.92	370.1	33.29	370.1	33.67	369	34.04	367.9	34.7	367.9	35.24	367.9	35.72	365.7	36.5
	5	4.5	410.7	34.01	408.5	34.46	406.3	34.91	405.2	35.36	404.1	35.8	404.1	36.51	404.1	36.98	401.9	38.08
	10	9	424.5	34.63	424.5	35.06	424.5	35.48	423.4	35.9	422.3	36.3	422.3	37.08	422.3	37.66	420.1	38.84
	15	14	453.8	35.8	451.7	36.25	449.5	36.61	449.5	36.97	449.5	37.55	447.4	38.18	447.4	38.84	445.2	38.62
	20	19	473.5	36.53	473.5	36.94	473.5	37.34	472.4	37.74	471.3	38.52	471.3	38.84	471.3	38.49	469.2	38.07
	25	23	493.7	37.08	491.5	37.46	489.4	37.91	489.4	38.37	489.4	38.84	487.3	38.32	487.3	37.94	487.3	37.52
	30	28	510.8	37.7	508.6	38.08	506.5	38.46	506.5	38.84	506.5	38.27	506.5	37.77	504.4	37.35	504.4	36.98
	35	32	535.5	38.23	535.5	38.54	535.5	38.84	534.4	38.04	533.4	37.43	533.4	36.8	533.4	36.39	531.3	35.98
	40	36	561.2	38.65	561.2	38.84	561.2	38.05	560.1	37.14	559.1	36.39	559.1	35.86	559.1	35.49	546.5	35.01
	45	41	577.8	38.84	577.8	38.17	577.8	37.4	576.8	36.49	575.7	35.77	575.7	35.14	575.7	34.77	544.5	34.3
	47	43	594.3	38.21	594.3	37.5	594.3	36.78	593.3	35.78	592.3	35.08	592.3	34.41	583.9	34.08	542.4	33.47
	50	46	596.3	37.56	594.3	36.84	592.3	36.13	592.3	35.19	592.3	34.33	582.2	33.6	564.1	33.36	524	32.71
	55	51	604.1	36.92	602.1	36.19	600.2	35.45	596.2	34.48	592.3	33.61	572.5	32.85	554.7	32.49	515.3	31.82
	60	56	638.8	35.29	634.3	34.57	629.8	33.85	611	32.51	592.3	31.32	572.5	30.34	554.7	29.88	515.3	29.04
110	-4	-4.4	361.4	35.18	359.2	35.44	356.9	35.7	356.9	35.96	356.9	36.39	356.9	36.83	354.7	37.46	354.7	38.06
	0	-0.4	370.4	35.49	368.2	35.77	365.9	36.05	365.9	36.33	365.9	36.8	363.7	37.33	363.7	37.88	363.7	38.47
	5	4.5	406.5	36.58	404.4	36.93	402.2	37.28	402.2	37.57	402.2	37.96	402.2	38.42	400	39.24	400	39
	10	9	422.5	37.11	422.5	37.49	422.5	37.86	421.4	38.17	420.3	38.52	420.3	39.24	420.3	38.99	418.2	38.36
	15	14	451.9	37.89	449.7	38.37	447.6	38.84	447.6	39.24	447.6	39.02	447.6	38.71	445.4	38.18	445.4	37.4
	20	19	471.5	38.65	471.5	39.24	471.5	38.74	470.4	38.43	469.4	38.12	469.4	37.8	469.4	37.27	467.2	36.44
	25	23	491.7	39.24	489.6	38.49	487.5	38.02	487.5	37.71	487.5	37.4	487.5	37.03	485.3	36.56	485.3	35.78
	30	28	506.7	38.52	506.7	37.8	506.7	37.34	505.6	36.93	504.6	36.65	504.6	36.27	504.6	35.83	502.5	35.05
	35	32	531.4	37.29	531.4	36.82	531.4	36.35	531.4	35.88	531.4	35.61	529.3	35.24	529.3	34.72	504.1	33.9
	40	36	533.4	36.27	533.4	35.8	533.4	35.33	532.4	34.86	531.4	34.58	531.4	34.11	513.5	33.62	479.5	32.95
	45	41	537.2	35.65	535.3	35.17	533.4	34.69	532.4	34.2	531.4	33.83	514	33.42	496.7	33.03	463.8	32.12
	47	43	554.6	34.91	552.7	34.45	550.8	33.99	541.1	33.48	531.4	33.11	514	32.7	496.7	32.28	463.8	31.29
	50	46	574	34.09	570.1	33.64	566.2	33.18	548.8	32.76	531.4	32.17	514	31.81	496.7	31.26	463.8	30.42
	55	51	608.7	33.37	587.5	32.86	566.2	32.35	548.8	31.84	531.4	31.26	514	30.92	496.7	30.46	463.8	29.54
	60	56	631.9	30.97	599.1	30.68	566.2	30.4	548.8	30.11	531.4	29.5	514	29.16	496.7	28.62	463.8	27.87

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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PERFORMANCE DATA

MULTI V III

Heating Capacity

ARUN432BT3, ARUN432DT3 / ARUB432BT3, ARUB432DT3

432,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		**70**		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
100	-4	-4.4	357.7	37	357.7	37.27	357.7	37.55	356.6	37.83	355.5	38.18	355.5	38.79	355.5	39.11	353.2	39.06
	0	-0.4	368.9	37.25	366.7	37.59	364.5	37.94	364.5	38.28	364.5	38.59	364.5	39.08	362.3	39.37	362.3	38.58
	5	4.5	402.9	38.15	402.9	38.46	402.9	38.76	401.8	39.07	400.7	39.37	400.7	38.78	400.7	37.74	398.5	36.89
	10	9	423.2	38.45	421	38.76	418.9	39.06	418.9	39.37	418.9	38.62	418.9	38.16	416.7	37.03	416.7	36.03
	15	14	448.3	39.15	448.3	39.37	448.3	39.17	447.2	38.2	446.1	37.43	446.1	36.76	446.1	35.66	444	34.63
	20	19	472.2	39.08	470	38.63	467.9	38.17	467.9	37.27	467.9	36.39	465.8	35.73	465.8	34.71	465.8	33.7
	25	23	488.1	38.45	488.1	38	488.1	37.55	487.1	36.64	486	35.61	486	35.02	486	33.61	464.7	32.71
	30	28	488.1	37.65	488.1	37.16	488.1	36.68	487	35.79	486	34.86	486	34.17	479.8	32.85	447	32.02
	35	32	493.8	36.43	491.8	35.96	489.9	35.48	487.9	34.53	486	33.76	470.4	32.83	454.9	31.66	423.8	30.75
	40	36	521	35.44	519	34.92	517.1	34.41	501.6	33.35	486	32.73	470.4	31.79	454.9	30.39	423.8	29.48
	45	41	556	34.66	536.5	34.12	517.1	33.58	501.6	32.64	486	32.04	470.4	30.78	454.9	29.56	423.8	28.61
	47	**43**	579.3	33.94	548.2	33.42	517.1	32.91	501.6	31.87	**486**	**31.32**	470.4	29.96	454.9	28.67	423.8	27.57
	50	46	579.3	33.18	548.2	32.62	517.1	32.06	501.6	31.26	486	30.54	470.4	29.31	454.9	27.83	423.8	26.9
	55	51	579.3	32.44	548.2	31.87	517.1	31.29	501.6	30.34	486	29.57	470.4	28.46	454.9	27.04	423.8	26.09
	60	56	579.3	30.98	548.2	30.4	517.1	29.82	501.6	28.66	486	27.72	470.4	26.61	454.9	25.48	423.8	24.41
90	-4	-4.4	356.2	35.13	356.2	35.55	356.2	35.97	355.1	36.5	354	36.81	354	37.19	354	37.03	354	35.76
	0	-0.4	365.2	35.35	365.2	35.8	365.2	36.24	364.1	36.74	363	37.07	363	37.34	363	36.57	360.8	35.25
	5	4.5	401.4	36.32	401.4	36.71	401.4	37.09	400.3	37.33	399.2	36.96	399.2	35.94	399.2	35.04	399.2	33.56
	10	9	421.8	36.76	419.6	37.05	417.4	37.34	417.4	36.71	417.4	36.02	417.4	35.14	417.4	34.1	415.2	32.64
	15	14	446.8	37.33	446.8	36.99	446.8	36.26	445.8	35.63	444.7	34.42	444.7	33.74	444.7	32.84	423.1	31.56
	20	19	448.8	36.46	446.7	35.96	444.7	35.14	444.7	34.33	444.7	33.42	444.7	32.83	430.4	31.95	399.8	30.69
	25	23	450.6	35.7	450.6	35.11	450.6	34.19	447.6	33.38	444.7	32.67	430.8	32.04	417	31.08	387.4	29.7
	30	28	472.3	35.02	470.4	34.36	468.4	33.53	456.5	32.7	444.7	31.92	430.8	31.27	417	30.33	387.4	29
	35	32	523.7	33.89	498	33.36	472.3	32.53	458.5	31.62	444.7	30.88	430.8	30.07	417	29.03	387.4	27.8
	40	36	531.6	32.89	502	32.27	472.3	31.51	458.5	30.75	444.7	29.85	430.8	29.02	417	28.15	387.4	26.58
	45	41	531.6	32.2	502	31.57	472.3	30.76	458.5	30.04	444.7	29.1	430.8	28.19	417	27.25	387.4	25.85
	47	43	531.6	31.51	502	30.85	472.3	30.07	458.5	29.15	444.7	28.36	430.8	27.4	417	26.58	387.4	25.07
	50	46	531.6	30.88	502	30.22	472.3	29.31	458.5	28.2	444.7	27.44	430.8	26.58	417	25.74	387.4	24.12
	55	51	531.6	30.19	502	29.42	472.3	28.38	458.5	27.33	444.7	26.52	430.8	25.68	417	24.79	387.4	23.43
	60	56	531.6	28.25	502	27.44	472.3	26.47	458.5	25.51	444.7	24.68	430.8	23.82	417	22.96	387.4	21.81
80	-4	-4.4	352.5	31.23	352.5	31.52	352.5	31.81	352.5	32.1	352.5	32.58	352.5	32.94	350.3	32.98	350.3	32.1
	0	-0.4	361.6	31.51	361.6	31.78	361.6	32.1	361.6	32.42	361.6	32.84	359.3	33.11	359.3	32.67	359.3	31.67
	5	4.5	397.8	32.42	397.8	32.67	397.8	32.92	397.8	33.11	397.8	32.73	397.8	31.82	395.6	31.08	380.3	30.12
	10	9	399.9	32.78	399.9	32.95	399.9	33.11	398.8	32.5	397.8	31.79	397.8	30.9	389.5	30.34	362.4	29.24
	15	14	409.7	33.11	409.7	32.76	409.7	32.05	403.8	31.18	397.8	30.29	385.9	29.72	371.9	29.06	346.1	28.13
	20	19	443.5	32.74	433.6	31.85	423.7	30.96	410.7	30.07	397.8	29.16	385.9	28.61	371.9	28.14	346.1	27.18
	25	23	475.4	31.99	449.5	31.13	423.7	30.27	410.7	29.27	397.8	28.44	385.9	27.84	371.9	27.29	346.1	26.32
	30	28	475.4	31.26	449.5	30.44	423.7	29.47	410.7	28.51	397.8	27.69	385.9	27.03	371.9	26.47	346.1	25.39
	35	32	475.4	30.01	449.5	29.16	423.7	28.32	410.7	27.47	397.8	26.65	385.9	25.94	371.9	25.23	346.1	24.19
	40	36	475.4	28.66	449.5	27.94	423.7	27.22	410.7	26.33	397.8	25.53	385.9	24.72	371.9	24	346.1	22.97
	45	41	475.4	27.81	449.5	27.09	423.7	26.37	410.7	25.7	397.8	24.87	385.9	23.89	371.9	23.16	346.1	22.04
	47	43	475.4	27	449.5	26.31	423.7	25.61	410.7	24.87	397.8	24.14	385.9	23.13	371.9	22.37	346.1	21.36
	50	46	475.4	26.23	449.5	25.49	423.7	24.76	410.7	23.97	397.8	23.22	385.9	22.21	371.9	21.46	346.1	20.46
	55	51	475.4	25.34	449.5	24.65	423.7	23.96	410.7	23.19	397.8	22.29	385.9	21.39	371.9	20.8	346.1	19.6
	60	56	475.4	23.48	449.5	22.86	423.7	22.25	410.7	21.35	397.8	20.45	385.9	19.64	371.9	19.03	346.1	17.88

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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ARUN432BT3, ARUN432DT3 / ARUB432BT3, ARUB432DT3 — Heating Capacity

432,000 Btu/h 208-230V, 460V Heat Pump / Heat Recovery Units

Combination (%)	Outdoor air temp.		Indoor Air Temp. °F DB/°F WB															
			59		61		64		67		70		73		76		80	
	°F DB	°F WB	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW	TC MBh	PI kW
70	-4	-4.4	354.1	30.22	352.2	30.57	350.2	30.92	344.4	31.36	338.6	32.05	327	32.26	317.3	32.24	296.1	31.74
	0	-0.4	379.3	31.02	369.6	31.26	359.9	31.49	349.3	31.96	338.6	32.29	327	32.32	317.3	32.1	296.1	31.46
	5	4.5	402.5	32.1	381.2	32.2	359.9	32.3	349.3	32.33	338.6	31.6	327	30.96	317.3	30.41	296.1	29.22
	10	9	402.5	32.19	381.2	32.26	359.9	32.32	349.3	31.23	338.6	30.22	327	29.43	317.3	28.68	296.1	27.05
	15	14	402.5	32.32	381.2	31.88	359.9	30.54	349.3	29.09	338.6	27.59	327	26.42	317.3	25.77	296.1	24.74
	20	19	402.5	30.63	381.2	29.63	359.9	28.46	349.3	27.28	338.6	26.34	327	25.35	317.3	24.68	296.1	23.65
	25	23	402.5	29.28	381.2	28.41	359.9	27.34	349.3	26.27	338.6	25.46	327	24.46	317.3	23.78	296.1	22.89
	30	28	402.5	28.19	381.2	27.38	359.9	26.45	349.3	25.52	338.6	24.68	327	23.87	317.3	23.25	296.1	22.16
	35	32	402.5	26.62	381.2	25.93	359.9	25.18	349.3	24.11	338.6	23.49	327	22.66	317.3	22.11	296.1	20.77
	40	36	402.5	25.67	381.2	24.87	359.9	24.06	349.3	23.06	338.6	22.3	327	21.47	317.3	20.82	296.1	19.6
	45	41	402.5	25.01	381.2	24.15	359.9	23.28	349.3	22.24	338.6	21.49	327	20.61	317.3	19.91	296.1	18.92
	47	43	402.5	24.1	381.2	23.2	359.9	22.3	349.3	21.41	338.6	20.69	327	19.75	317.3	19.16	296.1	18.01
	50	46	402.5	23.38	381.2	22.49	359.9	21.6	349.3	20.53	338.6	19.9	327	19.07	317.3	18.42	296.1	17.16
	55	51	402.5	22.77	381.2	21.8	359.9	20.83	349.3	19.73	338.6	18.97	327	18.12	317.3	17.52	296.1	16.28
	60	56	402.5	20.97	381.2	20.04	359.9	19.12	349.3	17.91	338.6	17.13	327	16.32	317.3	15.72	296.1	14.72
60	-4	-4.4	303.8	29.68	303.8	30.2	303.8	30.72	297	31.23	290.3	31.8	280.6	31.41	270.9	31.23	253.5	28.94
	0	-0.4	317.3	29.75	313.5	30.32	309.6	30.89	299.9	31.58	290.3	31.97	280.6	31.23	270.9	30.37	253.5	27.91
	5	4.5	344.4	30.91	327	31.63	309.6	32.31	299.9	30.89	290.3	28.6	280.6	27.52	270.9	26.48	253.5	24.36
	10	9	344.4	31.63	327	32.32	309.6	31.06	299.9	28.94	290.3	26.83	280.6	25.96	270.9	24.88	253.5	22.94
	15	14	344.4	31.35	327	29.95	309.6	28.61	299.9	26.65	290.3	24.87	280.6	24	270.9	23.08	253.5	21.3
	20	19	344.4	29.79	327	28.61	309.6	27.38	299.9	25.56	290.3	23.74	280.6	22.85	270.9	22.14	253.5	20.32
	25	23	344.4	28.56	327	27.34	309.6	26.12	299.9	24.35	290.3	22.7	280.6	21.77	270.9	21.06	253.5	19.41
	30	28	344.4	27.18	327	26.06	309.6	24.94	299.9	23.3	290.3	21.83	280.6	20.93	270.9	20.22	253.5	18.75
	35	32	344.4	25.34	327	24.36	309.6	23.38	299.9	21.91	290.3	20.47	280.6	19.71	270.9	19	253.5	17.52
	40	36	344.4	23.54	327	22.75	309.6	21.96	299.9	20.7	290.3	19.22	280.6	18.53	270.9	17.86	253.5	16.61
	45	41	344.4	22.57	327	21.74	309.6	20.9	299.9	19.63	290.3	18.39	280.6	17.64	270.9	17.11	253.5	15.88
	47	43	344.4	21.45	327	20.62	309.6	19.79	299.9	18.53	290.3	17.67	280.6	16.98	270.9	16.29	253.5	15.15
	50	46	344.4	20.72	327	19.95	309.6	19.19	299.9	18.02	290.3	16.9	280.6	16.46	270.9	15.72	253.5	14.75
	55	51	344.4	19.74	327	19.05	309.6	18.36	299.9	17.28	290.3	16.24	280.6	15.72	270.9	15.16	253.5	14.13
	60	56	344.4	18.62	327	17.95	309.6	17.28	299.9	16.24	290.3	15.16	280.6	14.64	270.9	14.13	253.5	13.22
50	-4	-4.4	288.3	29.97	272.8	29.75	257.4	29.51	249.6	28.49	241.9	27.48	234.1	26.44	226.4	25.4	210.9	23.33
	0	-0.4	288.3	29.57	272.8	29.49	257.4	28.47	249.6	27.52	241.9	26.57	234.1	25.53	226.4	24.54	210.9	22.59
	5	4.5	288.3	26.61	272.8	25.8	257.4	24.97	249.6	24.08	241.9	23.2	234.1	22.46	226.4	21.6	210.9	19.96
	10	9	288.3	24.92	272.8	24.22	257.4	23.5	249.6	22.68	241.9	21.86	234.1	21.12	226.4	20.39	210.9	18.79
	15	14	288.3	22.9	272.8	22.26	257.4	21.6	249.6	20.87	241.9	20.13	234.1	19.53	226.4	18.79	210.9	17.32
	20	19	288.3	21.53	272.8	20.97	257.4	20.39	249.6	19.66	241.9	18.92	234.1	18.36	226.4	17.63	210.9	16.46
	25	23	288.3	20.52	272.8	19.97	257.4	19.4	249.6	18.73	241.9	18.06	234.1	17.45	226.4	16.89	210.9	15.72
	30	28	288.3	19.76	272.8	19.13	257.4	18.49	249.6	17.91	241.9	17.32	234.1	16.72	226.4	16.16	210.9	14.99
	35	32	288.3	18.21	272.8	17.84	257.4	17.45	249.6	16.87	241.9	16.29	234.1	15.72	226.4	15.25	210.9	14.08
	40	36	288.3	17.21	272.8	16.84	257.4	16.46	249.6	15.94	241.9	15.42	234.1	14.82	226.4	14.39	210.9	13.35
	45	41	288.3	16.73	272.8	16.3	257.4	15.85	249.6	15.34	241.9	14.82	234.1	14.39	226.4	13.95	210.9	12.92
	47	43	288.3	15.96	272.8	15.57	257.4	15.16	249.6	14.78	241.9	14.39	234.1	13.67	226.4	13.25	210.9	12.36
	50	46	288.3	15.52	272.8	15.17	257.4	14.82	249.6	14.39	241.9	13.95	234.1	13.52	226.4	13.09	210.9	12.18
	55	51	288.3	15.03	272.8	14.72	257.4	14.39	249.6	13.95	241.9	13.52	234.1	13.09	226.4	12.61	210.9	11.88
	60	56	288.3	14.23	272.8	13.88	257.4	13.52	249.6	13.15	241.9	12.79	234.1	12.36	226.4	11.88	210.9	11.15

TC = Total Capacity (MBh).

PI = Power Input (kW) (includes compressor and outdoor fan).

The System Combination Ratio must be between 50–130%.

Nominal capacity as rated: 0 ft. above sea level with 25 ft. of refrigerant piping.
0 ft. level difference between outdoor and indoor units.

Nominal heating capacity rating obtained with air entering the indoor unit at 70ºF dry bulb (DB) and 59ºF wet bulb (WB), and outdoor ambient conditions of 47ºF dry bulb (DB) and 43ºF wet bulb (WB).

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APPLICATION GUIDELINES

“Equipment Selection Procedure” on page 180
“Building Ventilation Design Guide” on page 191
“Placement Considerations” on page 194

⚠ Note:
The following procedure should not replace LG's LATS Multi V complimentary selection software, but should instead be used in conjunction with it. Contact your LG representative to obtain a copy of the software and the user's manual.

Always use LATS Multi V Software

To properly select, size, and verify that the Multi V system components are optimized, follow the recommendations and instructions provided in this section:

- Zone the building.
- Determine the ventilation method.
- Select the indoor unit(s).
- Select the outdoor unit(s).
- Perform system sizing checks.
  - Calculate the Corrected Capacity Ratio (CCR).
  - Determine the system Combination Ratio (CR).
  - Determine the Running (indoor) Unit Ratio (RUR).

When using the LATS Multi V software, the default indoor design day conditions of 80.6°F DB / 67 °F WB in cooling mode and 68°F DB / 56.7°F WB in heating mode may need to be adjusted to reflect the designer's preferred indoor room design temperature.

⚠ Note:
These indoor room temperature values are the space thermostat setpoints and should not be confused with entering coil conditions.

⚠ Note:
Data provided in the LATS tree mode diagram or report file is not valid until the "Auto-Piping" and "System Check" routines are run without errors. Errors will be reported immediately in pop-up dialog boxes or red lines surrounding indoor unit(s) and/or along pipe segments. If errors are indicated, modify the pipe system design and/or system components and re-run LATS.

Zone the Building–Multi V III Heat Pump Systems

Multi V III Heat Pump is a two-pipe heat pump system that can cool or heat, but not both simultaneously. When designing a heat pump system, the designer typically combines spaces with similar load profiles located near or adjacent to each other into "thermal zones." After combining like spaces into thermal zones that will be served by a single (or grouped) indoor unit(s), calculate the peak cooling and heating loads for each thermal zone.

Zone the Building–Multi V III Heat Recovery Systems

Multi V III Heat Recovery is a three-pipe heat pump system that can cool and heat simultaneously. To maximize the amount of heat recovered and optimize the system operating efficiency, it is best to combine spaces that require heating and cooling concurrently on each Multi V pipe system. LG multi-port heat recovery units are designed to serve spaces that need cooling and others that need heating at the same time. The heating/cooling operating mode selection is made at the heat recovery units' outbound pipe port, independent of the adjacent ports' operating mode.

In many buildings, to optimize system design, spaces on opposite sides of the building are combined on a single pipe system served by a common Multi V III Heat Recovery outdoor unit. If the building has multiple floors, connected load diversity is often maximized by combining spaces located on different floors (maximum 49 feet vertical height difference between indoor system components). Each building will be unique. To discover the best combination of spaces, use a building energy modeling software.

Determine the Ventilation Method

Decide how ventilation air will be introduced to each space. Some models of Multi V indoor units have field-installed accessories available to accommodate the direct connection of ventilation ductwork to the unit. It is recommended, however, that additional considerations be assessed and understood when using direct connection accessories. For more information, contact your LG applied equipment representative or visit www.lg-vrf.com for technical product information.

⚠ Note:
In all cases, LG recommends ducting pre-treated room neutral, ventilation air directly to the space. If the ventilation air is not tempered to room neutral conditions before introduction to the conditioned space, remember to add the ventilation air load(s) to the space load before sizing the indoor unit(s). Local codes or other professional design guidelines, such as ASHRAE 62.1, will dictate the volume of ventilation air required.

It may be prudent to oversize the dedicated outdoor air system considering there will be a few days of the year when weather conditions exceed the design day conditions. This will minimize the possibility of ventilation air conditions causing the space temperature to drift outside design day parameters in the case where a decoupled outside air system is used, or the indoor unit's entering air temperature falls outside the approved design temperature range if a coupled outside air system is used.

Designing for Extreme Climatic Conditions

The Multi V III air-cooled outdoor unit(s) may have to operate in weather conditions more extreme than a typical design day. Design days are the days of the year that either cooling or heating capacity is needed the most. In light of this, it may be prudent to size the outdoor unit considering the anticipated worst weather day conditions to ensure adequate capacity year round.

When design outdoor ambient conditions are outside the cataloged air-cooled outdoor unit operating range, the net refrigeration effect (capacity) delivered to the indoor units cannot be guaranteed. Under these conditions, the possibility exists that the liquid injection valve or hot gas bypass valve in the outdoor unit may be open. When open, the outdoor unit will sacrifice capacity to maintain operational

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stability. As a result, the outdoor unit's net refrigeration effect available for use by the indoor units will be slightly reduced under certain extreme ambient air conditions.

In lieu of designing for extreme weather conditions beyond the cataloged temperature range, consider limiting the maximum and /or minimum temperature of the air around the Multi V outdoor air-cooled unit, or consider a Multi V II water-cooled unit.

Heating Season

Provide a ventilated equipment enclosure equipped with an auxiliary heat source, or place the outdoor unit(s) within the confines of the building envelope. On retrofit projects, it is best practice to position the outdoor unit(s) in former chiller, boiler, or air handler rooms. These strategies are commonly used on air-cooled projects to eliminate "extreme" over-sizing of the outdoor unit(s).

The enclosure will eliminate other potential operational problems from occurring, including the build-up of snow and ice on the unit case, fan shroud and fan blade, limit the capacity reduction effect of operating the outdoor unit at extremely low temperatures, and may reduce the size and initial cost of the Multi V III outdoor unit.

Cooling Season

An enclosure housing the outdoor unit or roof structure designed to shade the outdoor unit will protect the unit(s) from the negative impact of direct sun exposure, hail, and on sunny days, increase the cooling capacity by reducing the refrigerant condensing temperature.

⚠ *Note:*

When the designer provides the LATS software with ambient air design conditions that are above or below the cataloged operational temperature range, the software will override the designer's specified conditions and will size the refrigerant pipe system using the maximum or minimum cataloged ambient air operating temperature.

The report generated by LATS will reflect the outdoor ambient air conditions the designer provides, but the indoor and outdoor unit(s) cooling and heating corrected capacities calculated and shown in the report will be based on the cataloged ambient air operating temperature limits shown in Table 24. On these projects, the designer must manually estimate the corrected cooling and heating capacity of the outdoor unit when specified ambient conditions are outside the cataloged range.

Select the Indoor Unit(s)

The building sensible cooling load is typically the critical load to satisfy. In coastal areas or humid applications, such as high occupancy spaces, both the latent and sensible cooling loads should be considered. In areas where the cooling and heating loads are similar or the heating load may exceed the total cooling load, the designer should verify the indoor unit selection satisfies both the heating and cooling requirements.

Determine how many indoor units will be required. Refer to Table 26 to obtain the maximum number of indoor units allowed on Multi V III Heat Pump and Heat Recovery units. If the quantity of indoor units exceeds the maximum allowed for the outdoor model selected, consider increasing the size of the outdoor unit or split the indoor units into two groups served by separate outdoor units.

Calculate the entering mixed air conditions. Verify the entering air temperature is below 76˚F WB in cooling mode and above 59 ˚F in heating mode.

⚠ *Note:*

When the indoor unit entering air temperature is outside the cataloged operational limits, the Multi V III system may continue to operate properly; however operational abnormalities may occur. These include frost accumulating on the coil, low or high suction temperature, low or high head pressure, low or high discharge temperature, or complete system shutdown.

To calculate the indoor unit entering mixed air temperature:

$$MAT = \frac{(RAT \times \%RA) + (OAT \times \%OA)}{100}$$

Where:

MAT = Mixed air temperature

RAT = Return air temperature

OAT = Outside air temperature

%RA = Percentage of return air

%OA = Percentage of outdoor air

Indoor unit *nominal* cooling capacity ratings, among other parameters, are based on an entering air condition of 80°F DB/67°F WB and a 95°F DB outdoor ambient temperature. *Nominal* heating capacity ratings are based on an indoor unit entering air condition of 70°F DB and an outdoor ambient air temperature of 47°F DB/43°F WB.

To determine an indoor unit's peak capacity using LATS, the system's Combination Ratio must be ≤100%. If the system is designed with a Combination Ratio above 100%, temporarily select an outdoor unit that drives the combination ratio ≤100%. Record the indoor unit corrected capacity cooling and heating values.

Capacity Correction

The *corrected* cooling/heating capacity is different from the nominal cooling/heating capacity. The corrected capacity reported by LATS includes changes in unit performance after considering refrigerant line pressure drop, the system's Combination Ratio (CR), and the effect design ambient operating conditions has on the system's cooling capability.

Depending on the location of the building, additional capacity correction factors may need to be applied to the corrected capacity values provided by LATS.

Altitude Correction

On air-cooled systems, the impact of air density must be considered on systems installed at a significant altitude above sea level. To calculate the effect on the indoor unit's cooling capacity, look up the appropriate altitude correction factor for a wet coil found in Table 25. For each indoor unit, multiply the sensible corrected cooling capacity detailed in the LATS report (with the Combination Ratio ≤100%) by the altitude correction factor. For indoor units located in humid areas, perform the same procedure to obtain the corrected

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total (sensible & latent) cooling capacity. Next, adjust the heating capacity for the change in air density. Look up the appropriate altitude correction factor for a dry coil found in Table 25. Multiply the corrected heating capacity detailed in the LATS report (with the Combination Ratio ≤100%) for each indoor unit by the altitude correction factor selected.

Minimum Air Change Requirements

Avoid over-sizing indoor units in an attempt to increase the air exchange rate in the space. VRF systems are designed for minimum airflow over the coil to maximize latent capacity while cooling, maintain a comfortable, consistent discharge air temperature while heating, and minimize fan motor power consumption. In extreme cases, over-sizing indoor units may compromise the outdoor unit's ability to effectively match the space load(s).

Check the Indoor Unit Selection(s)

Verify the sensible (and total) corrected cooling capacity. For each indoor unit the corrected capacity must be at least equal to the sum of the appropriate cooling design day space load(s) (plus ventilation load, if applicable) for the space(s) served by the indoor unit.

Verify the corrected heating capacity. For each indoor unit, the corrected capacity must be at least equal to the sum of the heating design day space load (plus ventilation load, if applicable) for all spaces served by the indoor unit.

Select the Outdoor Unit

After all indoor units are properly sized to offset the applicable loads in each space, begin the selection of the outdoor unit by choosing a size that meets both the block load cooling requirement and offsets the sum of the peak heating load.

> ⚠ ***Note:***
> *In LATS always run the Auto-Pipe and System Check features following any change in the outdoor unit selection to verify the system design is acceptable.*

After making an outdoor unit selection, look up the outdoor unit's corrected cooling and heating capacity at the specified ambient design conditions. Use values reported by LATS or find it in the tables provided in the Performance Data section of this manual.

Capacity Correction

For air-cooled systems operating in cooling mode, a capacity correction factor may apply to account for the length of the system's liquid pipe and elevation difference between the outdoor unit and the indoor unit(s). If the outdoor units corrected cooling capacity was derived from the LATS report, the elevation difference correction factor has already been applied. If the corrected cooling capacity was found using corrected capacity tables found in the Performance Data section, apply the appropriate elevation difference factor found in Tables 27 to 30 (choice of table depends on the architecture of the system design). Multiply the outdoor unit corrected cooling capacity by the elevation difference correction factor.

Frost Accumulation

The outdoor unit heating capacity may need to be adjusted for frost accumulation on air-cooled systems. If design day conditions are below the dew-point of the surrounding air, frost may not be a problem and no correction factor is needed. In certain weather conditions, however, frost may form and accumulate on the air-cooled outdoor unit coil and impact the coils ability to transfer heat.

If significant frost accumulates on the outdoor unit coil, a defrost algorithm will start automatically. The timing between defrost periods is determined by the system's ability to achieve a target head pressure value.

LATS will automatically apply a frost accumulation factor if the check box labeled "Defrost Factor" in the outdoor unit selection dialog box is marked. The dialog box can be accessed by double-clicking on the outdoor unit image. If checked, the corrected outdoor unit capacity provided by the LATS report and displayed on the tree mode piping diagram will already be adjusted for outdoor unit coil frost accumulation.

If the corrected heating capacity was found using the Performance Data tables, the frost accumulation factor must be applied. Multiply the outdoor unit's corrected heating capacity by the appropriate frost accumulation factor found in Table 31.

Check the Indoor Unit Selection(s)

After applying the appropriate correction factors to the outdoor unit, verify the corrected cooling capacity is at least equal to the total building load (considering building diversity, if applicable), and the corrected heating capacity is at least equal to the sum of the peak heating loads for all spaces and/or thermal zones served by the system.

System Sizing Checks

Calculate the Corrected Capacity Ratio (CCR)

The system's CCR is defined as the sum of the space loads divided by the outdoor unit corrected capacity after all applicable correction factors are applied. Calculate this ratio for both the cooling and heating design days.

$$CCR\%_{(Clg)} = \left(\frac{\text{Total Cooling Block Load}}{\text{Actual Corrected Outdoor Unit Cooling Capacity}} \right) \times 100 \leq 100\%$$

$$CCR\%_{(Htg)} = \left(\frac{\text{Heating Peak Load}}{\text{Actual Corrected Outdoor Unit Heating Capacity}} \right) \times 100 \leq 100\%$$

The outdoor unit selected should be large enough to offset the total block cooling load for all spaces served by the VRF system during the peak cooling load hour on the cooling design day (account for ventilation air cooling load if the ventilation air has not been pretreated to room neutral conditions).

The corrected cooling capacity ratio (CCR% [clg]) should never exceed 100% plus building diversity. If it does, increase the size of

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the outdoor unit or change the system design by moving some of the building load and associated indoor unit(s) to another Multi V system.

The outdoor unit should also be large enough to offset the sum of the building's space heating loads without considering building diversity. In the heating season, it is typical that all spaces served by the system will peak simultaneously in the early morning, thus building diversity should never be considered. If the corrected heating capacity ratio (CCR% [htg]) exceeds 100%, increase the size of the outdoor unit or change the system design by moving some of the building load to another Multi V system.

Determine the System Combination Ratio (CR)

The system's CR compares the nominal capacity of all connected indoor units with the nominal capacity of the outdoor unit serving them. Locate nominal capacity information for indoor and outdoor units in the General Data Tables of their respective Engineering Manuals.

For example,

If a VRF system has an outdoor unit with a nominal capacity of C and four indoor units having nominal capacity ratings of W, X, Y, and Z respectively, the CR would be determined as follows:

$$CR\% = \left(\frac{W + X + Y + Z}{C} \right) \times 100$$

⚠ Note:

The Multi V system will not commission, start or operate unless the CR is between 50% and 130%.

If the CR is over 100%, the designer is under-sizing the outdoor unit relative to the combined nominal capacity of the connected indoor units. In some applications, under-sizing of the outdoor unit is prudent as it reduces the initial equipment investment and will properly perform as long as the designer:

1. Knows the indoor unit(s) are oversized relative to the actual load(s) in the spaces served.
2. Knows the space loads will peak at different times of the day (i.e., building has "load diversity").

In some designs, over-sized indoor units may be unavoidable in the case where the smallest size indoor unit available from LG is larger than what is necessary to satisfy the space load. This scenario may occur when an indoor unit selection one size down from the selected unit is slightly short of fulfilling the design load requirements, and the designer must choose the next largest size unit.

⚠ Note:

If the outdoor unit is properly sized to offset the building's total cooling block load and the system's combination ratio is above 130%, indoor units are likely oversized. In applications where all indoor units are "right-sized" and there is no building diversity, the system's CR will likely be ≤100%.

If the CR is above 130%, review the indoor unit choices and downsize, or select a larger outdoor unit. Consider moving indoor units to another Multi V, Flex-Multi, or single-split system if the outdoor unit size cannot be increased.

If the CR falls below 50%, select a smaller outdoor unit or consider adding more or larger indoor unit(s) to the system. This situation is common on multi-phase projects where the design calls for the majority of indoor units be added to the system at a later date. To raise the CR above the minimum 50% requirement:

1. Consider including additional indoor units on the first phase
2. Design two smaller systems in lieu of a single larger system. Connect all "first phase" indoor units to the outdoor unit being installed on the first phase, and delay the installation of the additional outdoor unit until a later date.

Determine the Running Unit Ratio (RUR) (Indoor)

The (RUR is the sum of the nominal capacity of all indoor unit(s) that are enabled and calling for cooling or heating at the same time, divided by the nominal capacity of the outdoor unit multiplied by 100.

$$RUR(\%) = \left(\frac{\sum \text{Nominal capacity of all IDUs actively cooling or heating}}{\text{Nominal capacity of the ODU}} \right) \times 100\% \geq 10\%$$

Refer to the appropriate Multi V Engineering Manual to find nominal capacity information for indoor and outdoor units.

⚠ Note:

The RUR must always be ≥10%. If, at any time, the RUR is less than 10%, operational anomalies such as excessive compressor and indoor unit fan cycling, low suction, or high vapor line temperatures may occur. If the RUR exceeds 130%, the system will either not run at all or will run with limited heating or cooling capacity. The resulting condition depends on what model of outdoor unit is selected and current ambient conditions.

For example,

A VRF system has an outdoor unit with a nominal capacity of C and has four connected indoor units having nominal capacity ratings of W, X, Y, and Z respectively, but indoor unit X has been turned off at the zone controller, and indoor unit Y is thermally satisfied and is not calling for cooling or heating. The RUR for this system would be:

$$RUR(\%) = \left(\frac{W+Z}{C} \right) \times 100\% \geq 10\%$$

If the designer knows the base building heating and/or cooling load will always be above 10% of the outdoor unit's nominal capacity, the RUR software algorithm will never become an operational issue.

⚠ Note:

It is impossible to predict if and when each zone controller will initiate (or remove) a call for cooling or heating on a Multi V system. Therefore, the only way to ensure the system will not operate with an RUR of less than 10% is to manually turn selected indoor units off at the zone controller, or disable them using an LG central controller device or through the building automation system.

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Conclusions and Recommendations

- Always use LATS Multi V system design software to check a design.
- Validate that each indoor unit is appropriately sized. Before validating, if the indoor units have been properly sized, the outdoor unit's size must be temporarily adjusted to make the system's CR ≤100%.
- Using the indoor unit's corrected capacity for cooling and heating provided by LATS and apply a correction factor for altitude if appropriate.
- Verify that the outdoor unit selection for each system is properly sized. Verify that the corrected capacity for cooling and heating provided by LATS is sufficient to offset the block building space load after applying additional correction factors for capacity and frost accumulation, if appropriate.
- For each Multi V system, calculate the cooling and heating design days
  1. Corrected Capacity Ratio (CCR).
  2. Combination Ratio (CR).
  3. Running Unit Ratio (RUR).

After these system checks are complete and design limitations are adhered, the system's indoor and outdoor components should be properly sized and the system's performance should now be optimized. The VRF system component size selections should be acceptable.

At any time, if further system design assistance is needed or you have a unique application you would like to discuss, contact your LG applied equipment representative for assistance.

Operating Temperature Ranges

Table 24: Published Operating Temperature Ranges for LG Multi V III Products[1].

Product	Cooling Mode (°F DB)	Heating Mode (°F WB)	Simultaneous Cooling Mode[2] (°F DB)	Simultaneous Heating Mode[3] (°F WB)
Multi V III Heat Pump	23 – 122	-4 – +60	N/A	N/A
Multi V III Heat Recovery	23 – 122	-4 – +60	14 - 81	14 – 60

[1]Equivalent pipe length distance between outdoor and indoor units is 25 feet and no elevation difference between outdoor and indoor units.

[2]Reversing valve in cooling position.

[3]Reversing valve in heating position.

Altitude Correction Factor

Table 25: Altitude Correction Factor.

Altitude (feet)	0	100	200	300	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400
Capacity Derate	0.0%	-0.4%	-0.7%	-1.1%	-1.4%	-1.8%	-2.1%	-2.5%	-2.8%	-3.2%	-3.5%	-3.9%	-4.2%	-4.6%	-4.9%
Altitude (feet)	1,500	1,600	1,700	1,800	1,900	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	—
Capacity Derate	-5.3%	-5.6%	-6.0%	-6.3%	-6.6%	-7.0%	-10.3%	-13.6%	-16.8%	-19.9%	-22.8%	-25.7%	-28.6%	-31.3%-	—

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Table 26: Heat Pump and Heat Recovery Outdoor Unit / Indoor Unit Matching Limitations.

Model	Nominal Cooling (Btu/h)	Indoor Units		
		Max. Qty..	Sum of Indoor Unit Nominal Cooling Capacities (Btu/h)	
			Min. Capacity (Btu/h) (50%)[1]	Max. Capacity (Btu/h) (130%)[2]
Heat Pump (208-230V / 460V)				
ARUN072BT3 / ARUN072DT3	72,000	13	36,000	93,600
ARUN096BT3 / ARUN096DT3	96,000	16	48,000	124,800
ARUN121BT3 / ARUN121DT3	120,000	20	60,000	156,000
ARUN144BT3 / ARUN144DT3	144,000	23	72,000	187,200
ARUN168BT3 / ARUN168DT3	168,000	29	84,000	218,400
ARUN192BT3 / ARUN192DT3	192,000	32	96,000	249,600
ARUN216BT3 / ARUN216DT3	216,000	35	108,000	280,800
ARUN240BT3 / ARUN240DT3	240,000	39	120,000	312,000
ARUN264BT3 / ARUN264DT3	264,000	42	132,000	343,200
ARUN288BT3 / ARUN288DT3	288,000	45	144,000	374,400
ARUN312BT3 / ARUN312DT3	312,000	52	156,000	405,600
ARUN336BT3 / ARUN336DT3	336,000	55	168,000	436,800
ARUN360BT3 / ARUN360DT3	360,000	58	180,000	468,000
ARUN384BT3 / ARUN384DT3	384,000	61	192,000	499,200
ARUN408BT3 / ARUN408DT3	408,000	64	204,000	530,400
ARUN432BT3 / ARUN432DT3	432,000	64	216,000	561,600
Heat Recovery (208-230V / 460V)				
ARUB072BT3 / ARUB072DT3	72,000	13	36,000	93,600
ARUB096BT3 / ARUB096DT3	96,000	16	48,000	124,800
ARUB121BT3 / ARUB121DT3	120,000	20	60,000	156,000
ARUB144BT3 / ARUB144DT3	144,000	23	72,000	187,200
ARUB168BT3 / ARUB168DT3	168,000	29	84,000	218,400
ARUB192BT3 / ARUB192DT3	192,000	32	96,000	249,600
ARUB216BT3 / ARUB216DT3	216,000	35	108,000	280,800
ARUB240BT3 / ARUB240DT3	240,000	39	120,000	312,000
ARUB264BT3 / ARUB264DT3	264,000	42	132,000	343,200
ARUB288BT3 / ARUB288DT3	288,000	45	144,000	374,400
ARUB312BT3 / ARUB312DT3	312,000	52	156,000	405,600
ARUB336BT3 / ARUB336DT3	336,000	55	168,000	436,800
ARUB360BT3 / ARUB360DT3	360,000	58	180,000	468,000
ARUB384BT3 / ARUB384DT3	384,000	61	192,000	499,200
ARUB408BT3 / ARUB408DT3	408,000	64	204,000	530,400
ARUB432BT3 / ARUB432DT3	432,000	64	216,000	561,600

[1]50% = Minimum Combination Ratio.

[2]130% = Maximum Combination Ratio.

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Cooling / Heating Correction Factors

For each outdoor unit, calculate the equivalent length of the liquid line from the outdoor unit to the farthest indoor unit. Also, determine the elevation difference of farthest indoor unit above or below the outdoor unit. Find corresponding cooling capacity correction factor in tables below and on the next page. Multiply the cooling correction factor by standard cooling capacity. The resultant is the NET cooling capacity. Repeat for heating correction factor.

⚠ Note:

The correction factors shown below are calculated in the LATS Multi V software program. These factors are only to be used when performing manual calculations.

Table 27: Heat Pump Cooling Correction Factors (ARUN072BT3 / ARUN072DT3 to ARUN384BT3 / ARUN384DT3).

	Equivalent Length (ELF)[1]																							
Elevation Differences (ft.)	25	33	66	98	131	164	197	230	263	295	328	361	394	427	459	492	525	558	591	623	656	689	738	
HU—Indoor units above heat pump unit (ft.)																								
0	1	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82	
25	1	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82	
33	-	0.99	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82	
66	-	-	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82	
98	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.85	0.84	0.83	0.83	
131	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.86	0.86	0.85	0.85	0.84	0.83	0.83	
164	-	-	-	-	-	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.83	0.83	
197	-	-	-	-	-	-	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83	
230	-	-	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83	
263	-	-	-	-	-	-	-	-	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83	
295	-	-	-	-	-	-	-	-	-	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.86	0.85	0.84	0.84	0.83	
328	-	-	-	-	-	-	-	-	-	-	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	
360	-	-	-	-	-	-	-	-	-	-	-	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	
HL—Indoor units below heat pump unit (ft.)																								
0	1	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82	
25	0.99	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82	
33	-	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.88	0.87	0.86	0.85	0.85	0.84	0.84	0.83	0.82	
66	-	-	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83	0.82	
98	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83	0.82	
131	-	-	-	-	0.95	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83	0.82	
164	-	-	-	-	-	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.83	0.83	0.82	
197	-	-	-	-	-	-	0.93	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.83	0.83	0.82	
230	-	-	-	-	-	-	-	0.92	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.86	0.86	0.85	0.85	0.84	0.83	0.83	0.82	
263	-	-	-	-	-	-	-	-	0.92	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.83	0.82	
295	-	-	-	-	-	-	-	-	-	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.83	0.82	
328	-	-	-	-	-	-	-	-	-	-	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.83	0.82	
360	-	-	-	-	-	-	-	-	-	-	-	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.83	0.82	

[1]ELF = Equivalent Pipe Length in Feet—Sum of the actual pipe length plus allocations for pressure drop through elbows, valves, and other fittings in equivalent length.

⚠ Note:

Heat Pump Heating Correction Factor for ARUN072BT3 / ARUN072DT3 to ARUN384BT3 / ARUN384DT3 models is 1.0 for all equivalent lengths and elevation differences.

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⚠ Note:
The correction factors shown below are calculated in the LATS Multi V software program. These factors are only to be used when performing manual calculations.

Table 28: Heat Pump Cooling Correction Factors (ARUN408BT3 / ARUN408DT3 and ARUN432BT3 / ARUN432DT3).

	Equivalent Length (ELF)[1]																							
Elevation Differences (ft.)	25	33	66	98	131	164	197	230	263	295	328	361	394	427	459	492	525	558	591	623	656	689	738
HU—Indoor units above heat pump unit (ft.)																								
0	1.0	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76
25	1.0	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.89	0.88	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76
33	-	0.99	0.98	0.96	0.94	0.93	0.91	0.90	0.89	0.88	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76
66	-	-	0.98	0.96	0.94	0.93	0.91	0.90	0.89	0.88	0.87	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76
98	-	-	-	0.96	0.95	0.93	0.92	0.90	0.89	0.88	0.87	0.86	0.84	0.83	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76
131	-	-	-	-	0.95	0.93	0.92	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76
164	-	-	-	-	-	0.93	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76
197	-	-	-	-	-	-	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76
230	-	-	-	-	-	-	-	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76
263	-	-	-	-	-	-	-	-	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76
295	-	-	-	-	-	-	-	-	-	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.76
328	-	-	-	-	-	-	-	-	-	-	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.76
360	-	-	-	-	-	-	-	-	-	-	-	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.76
HL—Indoor units below heat pump unit (ft.)																								
0	1.0	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76
25	0.99	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76
33	-	0.99	0.97	0.96	0.94	0.92	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76
66	-	-	0.97	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76
98	-	-	-	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.76
131	-	-	-	-	0.94	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.75
164	-	-	-	-	-	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.75
197	-	-	-	-	-	-	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75
230	-	-	-	-	-	-	-	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75
263	-	-	-	-	-	-	-	-	0.88	0.87	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75
295	-	-	-	-	-	-	-	-	-	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75
328	-	-	-	-	-	-	-	-	-	-	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75
360	-	-	-	-	-	-	-	-	-	-	-	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75

[1]ELF = Equivalent Pipe Length in Feet—Sum of the actual pipe length plus allocations for pressure drop through elbows, valves, and other fittings in equivalent length.

⚠ Note:
Heat Pump Heating Correction Factor for ARUN408BT3 / ARUN408DT3 and ARUN432BT3 / ARUN432DT3 models is 1.0 for all equivalent lengths and elevation differences.

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⚠ Note:

The correction factors shown below are calculated in the LATS Multi V software program. These factors are only to be used when performing manual calculations.

Table 29: Heat Recovery Cooling Correction Factors (ARUB072BT3 / ARUB072DT3 to ARUB384BT3 / ARUB384DT3).

	Equivalent Length (ELF)[1]																						
Elevation Differences (ft.)	25	33	66	98	131	164	197	230	263	295	328	361	394	427	459	492	525	558	591	623	656	689	738
HU—Indoor units above heat pump unit (ft.)																							
0	1.0	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82
25	1.0	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82
33	-	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82
66	-	-	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82
98	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.85	0.84	0.83	0.83
131	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.86	0.86	0.85	0.85	0.84	0.83	0.83
164	-	-	-	-	-	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.83	0.83
197	-	-	-	-	-	-	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83
230	-	-	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83
263	-	-	-	-	-	-	-	-	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83
295	-	-	-	-	-	-	-	-	-	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.86	0.85	0.84	0.84	0.83
328	-	-	-	-	-	-	-	-	-	-	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83
360	-	-	-	-	-	-	-	-	-	-	-	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83
HL—Indoor units below heat pump unit (ft.)																							
0	1.0	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82
25	0.99	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82
33	-	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.82
66	-	-	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83	0.82
98	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83	0.82
131	-	-	-	-	0.95	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.84	0.83	0.82
164	-	-	-	-	-	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.83	0.83	0.82
197	-	-	-	-	-	-	0.93	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.87	0.86	0.85	0.85	0.84	0.83	0.83	0.82
230	-	-	-	-	-	-	-	0.92	0.92	0.91	0.90	0.89	0.89	0.88	0.87	0.86	0.86	0.85	0.85	0.84	0.83	0.83	0.82
263	-	-	-	-	-	-	-	-	0.92	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.83	0.82
295	-	-	-	-	-	-	-	-	-	0.91	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.83	0.82
328	-	-	-	-	-	-	-	-	-	-	0.90	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.83	0.82
360	-	-	-	-	-	-	-	-	-	-	-	0.89	0.88	0.88	0.87	0.86	0.86	0.85	0.84	0.84	0.83	0.83	0.82

[1]ELF = Equivalent Pipe Length in Feet—Sum of the actual pipe length plus allocations for pressure drop through elbows, valves, and other fittings in equivalent length.

⚠ Note:

Heat Recovery Heating Correction Factor for ARUB072BT3 / ARUB072DT3 to ARUB384BT3 / ARUB384DT3 models is 1.0 for all equivalent lengths and elevation differences.

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⚠ Note:

The correction factors shown below are calculated in the LATS Multi V software program. These factors are only to be used when performing manual calculations.

Table 30: Heat Recovery Cooling Correction Factors (ARUB408BT3 / ARUB408DT3 and ARUB432BT3 / ARUB432DT3).

	Equivalent Length (ELF)[1]																							
Elevation Differences (ft.)	25	33	66	98	131	164	197	230	263	295	328	361	394	427	459	492	525	558	591	623	656	689	738
HU—Indoor units above heat pump unit (ft.)																								
0	1.0	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76
25	1.0	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.89	0.88	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76
33	-	0.99	0.98	0.96	0.94	0.93	0.91	0.90	0.89	0.88	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76
66	-	-	0.98	0.96	0.94	0.93	0.91	0.90	0.89	0.88	0.87	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76
98	-	-	-	0.96	0.95	0.93	0.92	0.90	0.89	0.88	0.87	0.86	0.84	0.83	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76
131	-	-	-	-	0.95	0.93	0.92	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76
164	-	-	-	-	-	0.93	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76
197	-	-	-	-	-	-	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76
230	-	-	-	-	-	-	-	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76
263	-	-	-	-	-	-	-	-	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76
295	-	-	-	-	-	-	-	-	-	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.76
328	-	-	-	-	-	-	-	-	-	-	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.76
360	-	-	-	-	-	-	-	-	-	-	-	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.76
HL—Indoor units below heat pump unit (ft.)																								
0	1.0	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76
25	0.99	0.99	0.97	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76
33	-	0.99	0.97	0.96	0.94	0.92	0.91	0.90	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76
66	-	-	0.97	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.78	0.77	0.77	0.76
98	-	-	-	0.95	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.76
131	-	-	-	-	0.94	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.75
164	-	-	-	-	-	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76	0.75
197							0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75
230								0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75
263									0.88	0.87	0.85	0.84	0.83	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75
295										0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75
328											0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75
360												0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75

[1]ELF = Equivalent Pipe Length in Feet—Sum of the actual pipe length plus allocations for pressure drop through elbows, valves, and other fittings in equivalent length.

⚠ Note:

Heat Recovery Heating Correction Factor for ARUB408BT3 / ARUB408DT3 and ARUB432BT3 / ARUB432DT3 models is 1.0 for all equivalent lengths and elevation differences.

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⚠ Note:

The correction factors shown below are calculated in the LATS Multi V software program. These factors are only to be used when performing manual calculations.

Defrost Correction Factor for Heating Operation

Capacity tables do not take into consideration capacity reduction when frost has accumulated on the condenser coil, nor during defrost operation. Integrated heating capacity values can be obtained as follows:

Formula: A = B x C

Where: A = Integrated heating capacity
B = Value given in table of capacity characteristics
C = Integrated correction factor for frost accumulation

Table 31: Outdoor Unit Frost Accumulation factor (Heating)[1].

Entering DB (°F)	19.4	23.0	26.6	32.0	37.4	41.0	44.6
Derate factor	0.98	0.95	0.93	0.86	0.93	0.96	1.0

[1]At 85% outdoor air relative humidity.

The frost accumulation factor does not account for effects of snow accumulation restricting airflow through the outdoor unit coil.

⚠ Note:

There will be temporary reduction in capacity when snow piles up on the outside surface of the outdoor unit heat exchanger. The level of capacity reduction depends on a number of factors, for example, outdoor temperature (°F DB), relative humidity (RH), and the amount of frost present.

Equivalent Length Calculation for Correction Factors

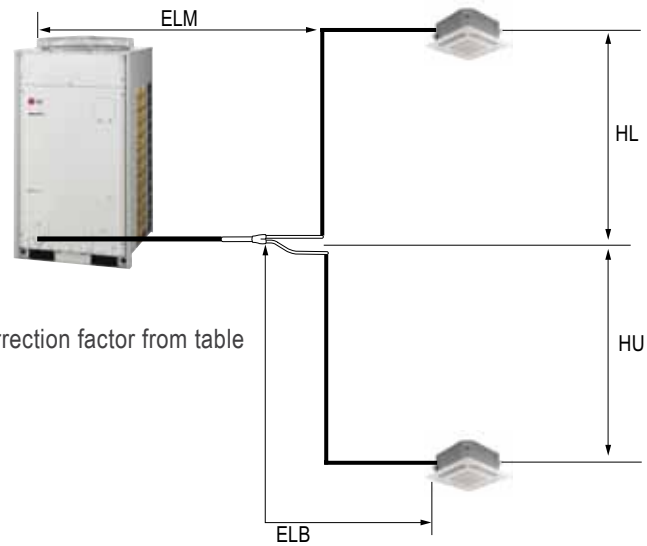
TEL = (ELM x Correction Factor) + ELB, where

TEL = Total equivalent length
ELM = Equivalent length to first Y-branch
ELB = Equivalent length from first Y-branch to farthest indoor unit
HU = Indoor units above outdoor unit
HL = Indoor units below outdoor unit

Example: ELM = 230'
ELB = 131'
HU = 33'
Outdoor Unit = ARUN072BT3

Total equivalent length = (230' x 1.0) + 131' = 361'. The cooling capacity correction factor from table below, when HU = 33' would be approximately 0.90.

Figure 24: Equivalent Length.



Correction Factor	Overall Equivalent Pipe Length	
	Standard Application	Overall Equivalent Length 295[1]
ARUN076-336BT3/DT3 / ARUB076-336BT3/DT3		
Cooling	1.0	0.5
Heating	1.0	0.2
ARUN360-432BT3/DT3 / ARUB360-432BT3/DT3		
Cooling	1.0	0.5
Heating	1.0	0.4

Equivalent Piping Length for Piping Components

Table 32: Equivalent Piping Length for Y-branches, Headers, and Other Piping Components.

Component	Size (Inches)													
	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2	1-5/8	1-3/4	2-1/8
Elbow (ft.)	0.5	0.6	0.7	0.8	1.2	1.3	1.5	1.6	1.8	2.0	2.1	2.3	2.5	2.8
Y-branch (ft.)	1.6													
Header (ft.)	3.3													
Heat Recovery Unit (ft.)	8.2													

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Building Ventilation Design Guide

ASHRAE 62.1 and local codes specify the minimum volume of outdoor air that must be provided to an occupied space. Outdoor air is required to minimize adverse health effects, and it provides acceptable indoor air quality for building occupants. The five methods of accomplishing this with LG Multi V III systems are summarized here.

⚠ *Note:*

Disclaimer

Although we believe that these building ventilation methods have been portrayed accurately, none of the methods have been tested, verified, or evaluated by LG Electronics, U.S.A., Inc., In all cases, the designer, installer, and contractor should understand if the suggested method is used, it is used at their own risk. LG Electronics U.S.A., Inc., takes no responsibility and offers no warranty, expressed or implied, of merchantability or fitness of purpose if this method fails to perform as stated or intended.

- *For a complete copy of Standard 62.1-2010, refer to the American Standard of Heating and Air Conditioning Engineers (ASHRAE) website at www.ashrae.org.*
- *For more information on how to properly size a ventilation air pretreatment system, refer to the article, "Selecting DOAS Equipment with Reserve Capacity" by John Murphy, published in the ASHRAE Journal, April 2010.*

Method 1: Decoupled Dedicated Outdoor Air System (DDOAS)

Provide a separate, dedicated outdoor-air system designed to filter, condition, and dehumidify ventilation air and deliver it directly to the conditioned space through a separate register or grille. This approach requires a separate independent ventilation duct system not associated with the Multi V III system.

⚠ *Note:*

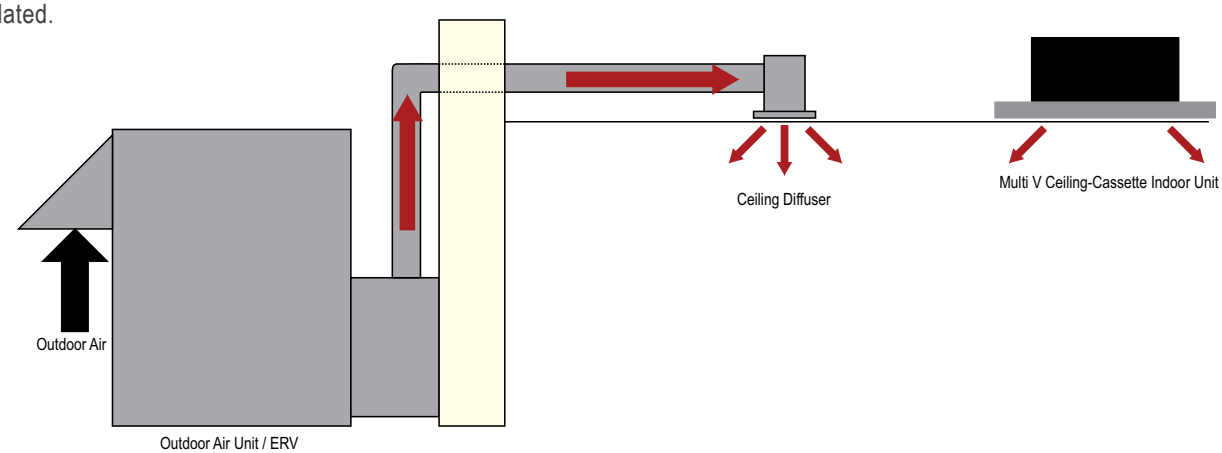
LG recommends using the DDOAS method in all installations.

Advantages

- Does not add additional heating or cooling loads to indoor units.
- May be used with a full lineup of the indoor units.
- If the outdoor air unit fails, the resulting untreated air will be readily noticed by the occupants.
- The outdoor air unit may supply “neutral” air to the occupant space even when the Multi V indoor unit fan changes speed or cycles on and off. DDOAS controls do not have to be interlocked with the Multi V III system.
- In lieu of installing localized smaller outside air treatment equipment throughout the building, this method centralizes the ventilation air source making service and filter changes easier and less disruptive for the building occupants.
- Indoor unit operation and performance will not be affected by the condition of outdoor air.
- Third-party demand control ventilation controls are more readily accommodated.

Disadvantages

- Ceiling space is required to accommodate ductwork between the centralized outdoor air unit and ceiling diffusers.



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Method 2: Unconditioned Outdoor Air (Non-Ducted, Natural Ventilation)

Natural ventilation devices, such as operable windows or louvers may be used to ventilate the building when local code permits. The open area of a window or the free area of a louver must meet the minimum percentage of the net occupied floor area.

Advantages

- Occupants control the volume of the ventilation air manually.
- Useful for historic buildings that have no ceiling space available for outdoor air ductwork.
- May be used with the full lineup of Multi V indoor units.

Disadvantages

- In some locations, it may be difficult to control humidity levels when windows are open.
- Thermal comfort levels may be substandard when windows are open.
- Indoor units may have to be oversized to account for the added heating and cooling loads when windows are open.
- Provides outdoor air to perimeter spaces only. Additional mechanical ventilation system may be required to satisfy requirements for interior spaces.
- Outdoor air loads may be difficult to calculate since the quantity of outdoor air is not regulated.
- May affect indoor unit proper operation when open.

Method 3: Unconditioned Outdoor Air Ducted to Indoor Units

Untreated outdoor air is channeled through a duct system that is piped to the return air duct on Multi V concealed indoor units or to the frame of Multi V 1-way and 4-way cassettes.

⚠ Note:

Outside air may flow backward through the return air-filter grille when the indoor unit fan speed slows or stops in response to changes in the space load. This may result in captured particulate on the filter media being blown back into the conditioned space.

Advantages

- May require less ductwork if indoor units are placed near outdoor walls or a roof deck.
- Controls must be interlocked to shut off the outdoor air supply fan when the space is unoccupied.
- Third-party demand-control ventilation controls may be installed to regulate outdoor intake based on the CO_2 levels of the occupied space.

Disadvantages

- Fan(s) will be required to push outdoor air to the indoor unit. Indoor units are engineered for low sound levels and are not designed to overcome the added static pressure caused by the outdoor air source ductwork.
- Ventilation air must be pre-filtered before mixing with the return air stream. LG indoor cassette models are configured to introduce the ventilation air downstream of the return air filter media.
- Ducted, 1-way, and 4-way cassette models are the only indoor units that accept the connection of an outdoor air duct to the unit case.
- Mixed air conditions must be between a minimum of 59°F DB while operating in heating and a maximum of 76°F WB while operating in cooling. Depending on the ventilation air volume requirement, the location choices are limited where untreated outside air may be introduced to the building using this method.
- Larger indoor units may be required to satisfy for additional outdoor air.
- Motorized dampers may be required to prevent outdoor air flow through the indoor unit when the indoor unit is not operating.
- An LG Dry Contact adapter may be necessary to interlock the motorized damper with the indoor unit.
- While operating in heating, the untreated outdoor air may delay the start of the indoor unit fan impacting building comfort.
- In most cases, in lieu of using the factory mounted return-air thermistor on indoor units, a remote wall temperature sensor or zone controller will be needed for each indoor unit to provide an accurate reading of the conditioned area temperature.

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Method 4: Unconditioned Outdoor Air (Non-Ducted, Fan Assisted Ventilation)

When approved by local codes, the fan assisted ventilation method uses exhaust fans to remove air from the building, and outdoor air is drawn into occupied spaces through a wall louver or gravity roof intake hood. Supply fans can also be used to push the outdoor air into the space and building positive pressure will vent the exhaust air through louvers or roof-mounted exhaust hoods. Outdoor air is neither cooled nor heated before entering the building.

⚠ ***Note:***

This may result in loss of building pressurization control, increasing infiltration loads with adverse effects.

Advantages

- Outdoor air may be manually controlled by the occupant or automatic controls may be installed to open/close outdoor air dampers or to turn on/off ventilation fans.
- Useful for large open spaces like warehouses, garages, and workshops.
- Outdoor air volume is a known quantity. Air loads may be easier to calculate since fans will regulate the amount of outdoor air.
- May be used with a full lineup of Multi V indoor units.

Disadvantages

- In some locations of the country, it may be difficult to control humidity levels while outdoor air louvers/hoods are opened.
- Thermal comfort levels may be substandard when louvers/hoods are opened.
- Indoor units may have to be oversized to account for the added heating/cooling loads when louvers/hoods are open.
- Hot, cold, and/or humid areas may be present if the outdoor air is not evenly distributed to the different spaces.

Method 5: Coupled Dedicated Outdoor Air (CDOA)

A separate, dedicated outdoor air system delivers air directly to a Multi V indoor unit or to the return air duct system. After mixing with the return air stream, ventilation air passes through the indoor unit and into the conditioned space. The pretreatment system is capable of filtering, conditioning, and dehumidifying outdoor air to room neutral conditions.

⚠ ***Note:***

Outside air may flow backward through the return air-filter grille when the indoor unit fan speed is reduced or stops when the space load is satisfied. This may result in captured particulate on the filter media being blown back into the conditioned space.

Advantages

- Separate ceiling registers or grilles for introduction of the outside air to the conditioned space may be avoided.

Disadvantages

- Ducted, 1-way, and 4-way cassette indoor units are the only models designed for direct connection of an outside air duct.
- The building occupant may not notice the outdoor air pretreatment system has malfunctioned until the unconditioned outdoor air exceeds the indoor unit mixed air limits of 59°F DB for heating and 76°F WB for cooling.
- If the coil entering air condition limitation is exceeded, the indoor unit may malfunction and ceases to operate.
- If the outdoor air unit cooling or heating system fails, the malfunction may be masked by the indoor unit ramping up operating parameters to compensate for the failure.
- Motorized dampers may be required to prevent outdoor air from entering the indoor unit while the indoor unit has cycled off.
- An LG Dry Contact adapter is necessary to interlock the motorized damper with the indoor unit fan operation.
- In lieu of using the factory mounted return-air thermistor, a remote wall temperature sensor or zone controller may be required to provide an accurate conditioned space temperature reading.

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PLACEMENT CONSIDERATIONS

Heat Pump and Heat Recovery Outdoor Units

Selecting the Best Location

Select a location for installing the outdoor unit that will meet the following conditions:

- Where the unit will not be subjected to direct thermal radiation from other heat sources.
- Where operating sound from the unit will not disturb inhabitants of surrounding buildings.
- Where the unit will not be exposed to direct, strong winds.
- Where there is enough strength to bear the weight of the unit.
- Include space for drainage to ensure condensate flows properly out of the unit when it is in heating mode.
- Include enough space for air flow and for service access.
- To avoid the possibility of fire, do not install the unit in an area where combustible gas may generate, flow, stagnate, or leak.
- Do not install the unit in a location where acidic solution and spray (sulfur) are often used.
- Do not use the unit in environments where oil, steam, or sulfuric gas are present.
- Install a fence to prevent vermin from crawling into the unit or unauthorized individuals from accessing it.

To ensure the outdoor unit operates properly, certain measures are required in locations where there is a possibility of heavy snowfall or severe windchill or cold:

1. Prepare for severe winter wind chills and heavy snowfall, even in areas of the country where these are unusual phenomena.
2. Position the outdoor unit so that its airflow fans are not buried by direct, heavy snowfall. If snow piles up and blocks the airflow, the system may malfunction.
3. Remove any snow that has accumulated 3-15/16 inches or more on the top of the outdoor unit.
4. Place the outdoor unit on a raised platform at least 19-11/16 inches higher than the average annual snowfall for the area. In environments where there is a possibility of heavy snow, the H frame height must be more than two (2) times the amount of average annual snowfall, and should not exceed the width of the outdoor unit (see page 196). If the frame width is wider than the outdoor unit, snow may accumulate.
5. Install a snow protection hood.
6. To prevent snow and heavy rain from entering the outdoor unit, install the suction and discharge ducts facing away from direct winds.

Additionally, the following conditions should be taken into considerations when the unit operates in defrost mode:

- If the outdoor unit is installed in a highly humid environment (near an ocean, lake, etc.), ensure that the site is well-ventilated and has a lot of natural light. (Example: Install on a rooftop.)
- Sidewalks or parking lots near the outdoor unit may accumulate moisture after unit operates in defrost mode that can turn to ice.

The indoor unit may take longer to provide heat, or heating performance will be reduced in winter if the unit is installed:

1. In a narrow, shady location.
2. Near a location that has a lot of ground moisture.
3. In a highly humid environment.
4. In an area in which condensate does not drain properly.

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PLACEMENT CONSIDERATIONS

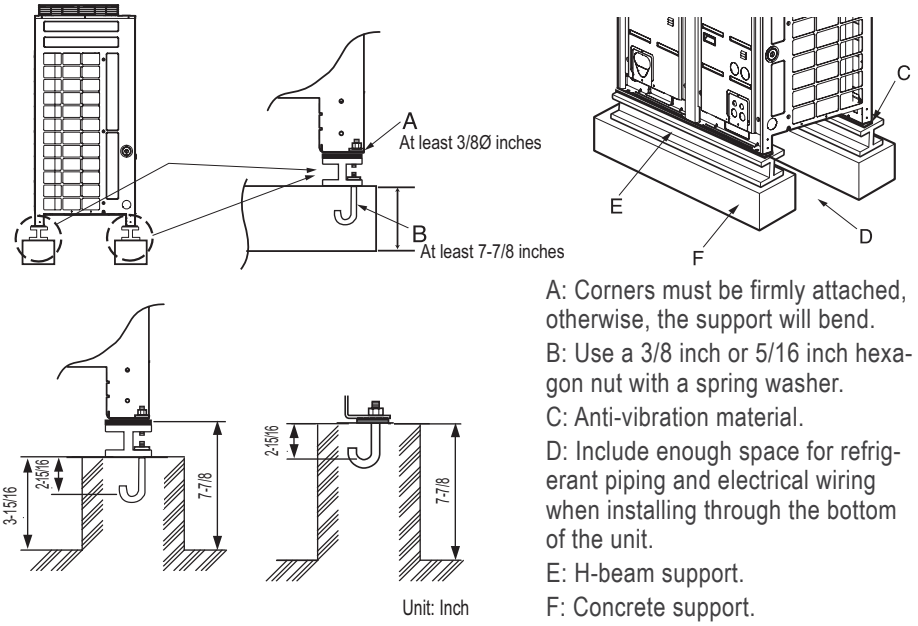
Heat Pump and Heat Recovery Outdoor Units

General Mounting

Securely attach the outdoor unit to a condenser pad, base rails, or other mounting platform that is securely anchored to the ground or building structure. Refer to dimensional drawings in the "Product Data" section on pages 33 to 38, and follow the applicable local code for clearance, mounting, anchor, and vibration attenuation requirements.

[1]All referenced materials are to be field-supplied. Images are not to scale. All dimensions ±0.25 inches.

Figure 25: Outdoor Unit—Mounting Methods[1].



A: Corners must be firmly attached, otherwise, the support will bend.

B: Use a 3/8 inch or 5/16 inch hexagon nut with a spring washer.

C: Anti-vibration material.

D: Include enough space for refrigerant piping and electrical wiring when installing through the bottom of the unit.

E: H-beam support.

F: Concrete support.

Mounting Platform

The underlying structure or foundation must be designed to support the weight of the unit. Avoid placing the unit in a low lying area where water may accumulate.

Tie-Downs and Wind Restraints

The strength of the Multi V III frame is adequate to be used with field-provided wind restraint tie-downs. The overall tie-down configuration must be approved by a local professional engineer. Always refer to local code when designing a wind restraint system.

Dealing with Snow and Ice

In climates that experience snow buildup, place the unit on a raised platform to ensure proper condenser airflow. The raised support platform must be high enough to allow the unit to remain above possible snow drifts. Mount the unit on a field-provided snow stand at a minimum height that is equal to the average annual snowfall, plus 20 inches. Design the mounting base to prevent snow accumulation on the platform in front or back of the unit case. If necessary, provide a field fabricated hood to keep snow and ice and/or drifting snow from accumulating on the coil surfaces. Use inlet and discharge duct or hoods to prevent snow or rain from accumulating on the fan inlet and outlet guards. Best practice prevents snow from accumulating on top of the unit. Consider tie-down requirements in case of high winds or where required by local codes. When the system is commissioned, adjust the dip switch for "snow throw" operation. In all cases, the outdoor unit supply and/or discharge duct work or hoods must be designed to have a combined air pressure drop rating that does not exceed 0.32" WG.

⚠ Note:

- *When deciding on a location to place the outdoor unit, be sure to choose an area where run-off from defrost mode will not accumulate and freeze on sidewalks or driveways.*
- *Snow throw mode does not prevent ice from forming on the fan blade or discharge grille.*

Ambient Air Conditions

Avoid exposing the outdoor unit to steam, combustible gases, or other corrosive elements. Avoid exposing the unit to discharge from boiler stacks, chimneys, steam relief ports, other air conditioning units, kitchen vents, plumbing vents, and other sources of extreme temperature, gases, or substances that may degrade performance or cause damage to the unit.

When installing multiple outdoor units, avoid placing the units where discharge of one outdoor unit will blow into the inlet side of an adjacent unit.

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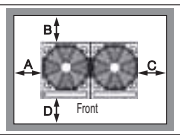
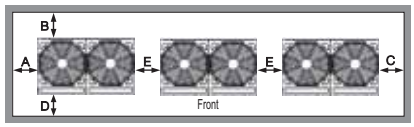
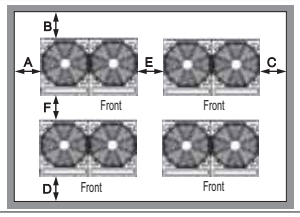
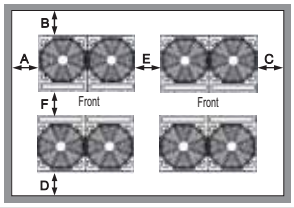
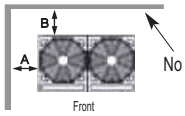
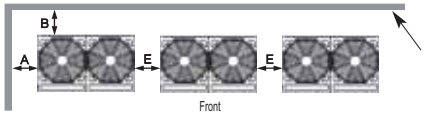
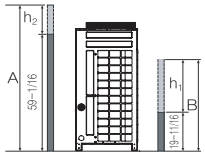
PLACEMENT CONSIDERATIONS

Heat Pump and Heat Recovery Outdoor Units

Installation Space

Proper airflow through the outdoor unit coil is critical for proper unit operation. When installing the outdoor unit, consider service, inlet, and outlet, and minimum allowable space requirements as illustrated in the diagrams below.

Figure 26: Minimum Space Requirements.

Description	Installation Area	Example No. 1 7/16" ≤ Space A, C ≤ 1-7/8"	Example No. 2 Space A, C ≥ 1-7/8"
Unit(s) is(are) enclosed by four (4) walls		A≥ 7/16" B≥ 11-13/16" C≥ 7/16" D≥ 19-11/16"	A≥ 2" B≥ 3-15/16" C≥ 2" D≥ 19-11/16"
		A≥ 7/16" B≥ 11-13/16" C≥ 7/16" D≥ 19-11/16" E≥ 2-3/4"	A≥ 2" B≥ 3-15/16" C≥ 2" D≥ 19-11/16" E≥ 3-15/16"
		A≥ 7/16" B≥ 11-13/16" C≥ 7/16" D≥ 19-11/16" E≥ 2-3/4" F≥ 23-5/8"	A≥ 2" B≥ 3-15/16" C≥ 2" D≥ 19-11/16" E≥ 3-15/16" F≥ 19-11/16"
		A≥ 7/16" B≥ 11-13/16" C≥ 7/16" D≥ 11-13/16" E≥ 2-3/4" F≥ 19-11/16"	A≥ 2" B≥ 13-15/16" C≥ 2" D≥ 3-15/16" E≥ 3-15/16" F≥ 19-11/16"
Two (2) sides are walls		A≥ 7/16" B≥ 11-13/16"	
		A≥ 7-7/8" B≥ 11-13/16" E≥ 15-3/4"	
Wall height limitations (when the unit(s) are surrounded by four [4] walls)		• Wall height at the front side of the unit must be ≤59-1/16 inches. • Wall height at the inlet side of the unit must be ≤19-11/16 inches. • There are no height limitations to the walls at the sides of the unit. • If the wall height at the front and the inlet sides of the unit are higher than allowable limits, additional space must be included. - Additional space on the inlet side by 1/2 of h1. - Additional space on the front side by 1/2 of h2 - h2 = A (actual height) - 59-1/16 inches. - h1 = B (actual height) - 19-11/16 inches.	

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⚠ *Note:*

Heat recovery units are for use with ARUB Series heat recovery systems only.

Select an installation space for the heat recovery unit that meets the following conditions:

- Install the heat recovery unit indoors in a level and upright position.
- Ensure there is enough space in the installation area for service access.
- Refrigerant pipes must not exceed lengths specified by LG Electronics, U.S.A., Inc.
- Do not install the heat recovery unit in a location where it would be subjected to strong radiation heat from heat sources.
- Avoid an installation environment where oil splattering, vapor spray, or high-frequency electric noise could occur.
- Install the heat recovery unit in a location where any sound it may generate will not disturb occupants in the surrounding rooms.
- Install the refrigerant piping and electrical wiring system in an easily accessible location.
- Condensate drain piping is not required.

Figure 27: Dimensions for Heat Recovery Units.

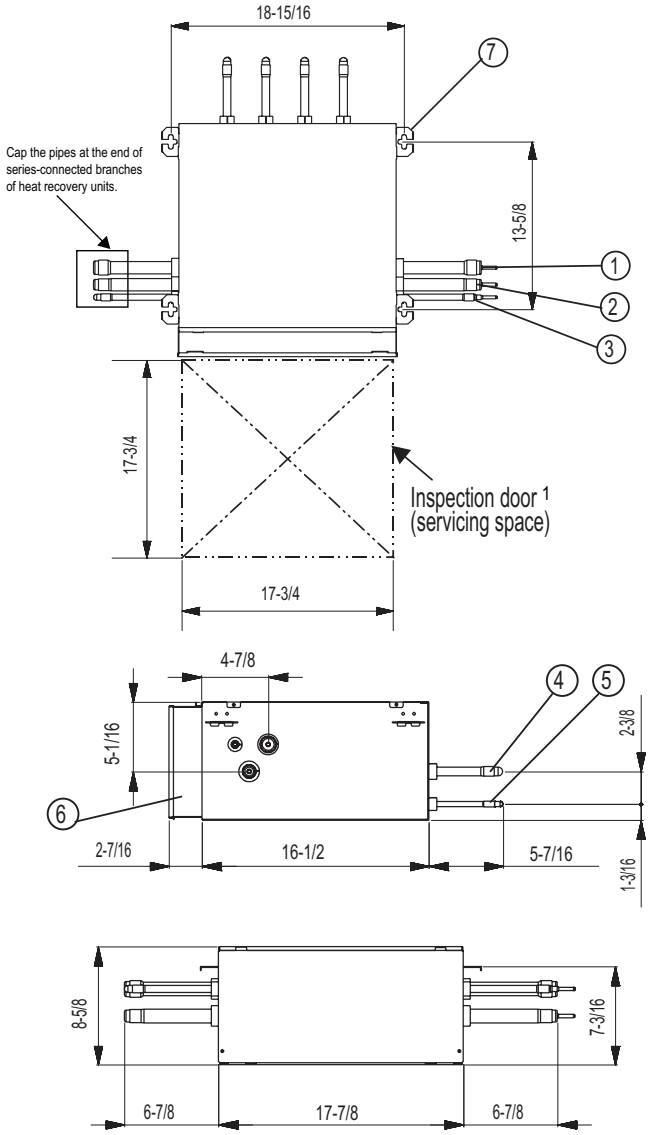


Figure 28: Minimum Service Clearances for Heat Recovery Units.

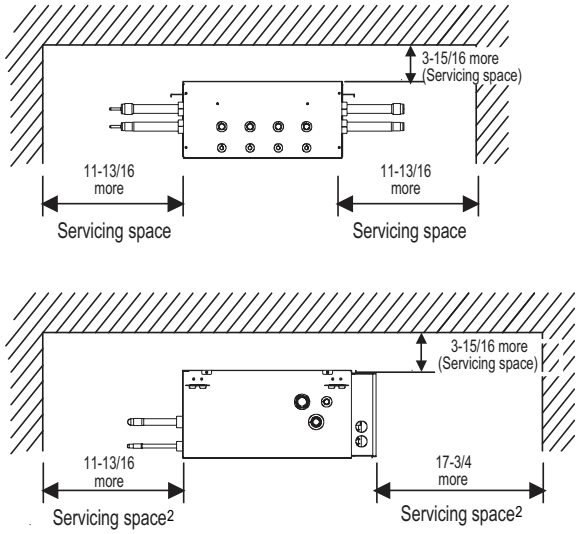


Table 33: Heat Recovery Unit Parts.

Tag No.	Part Name	Connection Size(in.)/Type	
		PRHR021A	PRHR031A/041A
1	Low pressure vapor pipe connection port	7/8 Braze	1-1/8 Braze
2	High pressure vapor pipe connection port	3/4 Braze	7/8 Braze
3	Liquid pipe connection port	3/8 Braze	1/2 Braze
4	Indoor unit vapor pipe connection port	5/8 Braze	5/8 Braze
5	Indoor unit liquid pipe connection port	3/8 Braze	3/8 Braze
6	Control box	–	–
7	Hanger bracket	3/8 or 5/16	3/8 or 5/16

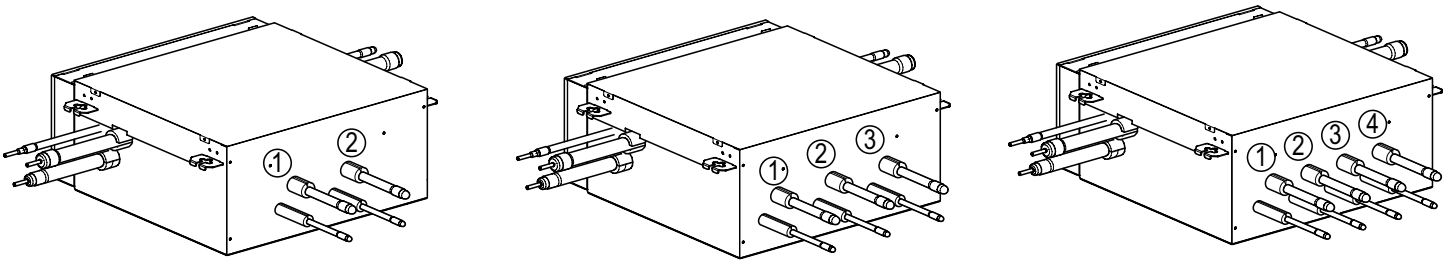
[1]Locate the inspection door at the control box side of the heat recovery unit.
[2]If reducers are used, space for service access must be increased to match the dimensions of the reducer.

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PLACEMENT CONSIDERATIONS

Heat Recovery Unit

Figure 29: Heat Recovery Unit Types.



PRHR021A (Two [2] ports) PRHR031A (Three [3] ports) PRHR041A (Four [4] ports)

1. Each heat recovery unit has a capacity up to 192,000 Btu/h.
2. Heat recovery units connected in series have a total capacity up to 192,000 Btu/h per series string. Series string is defined as heat recovery units piped in series at the same elevation.
3. Elevation difference between heat recovery units connected in series is permitted, but should not exceed 16 feet.
4. Each port on the heat recovery unit has a capacity up to 54,000 Btu/h.
5. Each port can be connected to a maximum of eight (8) indoor units. When multiple indoor units are connected to one port, all indoor units on that port must operate in the same mode (cooling or heating).
6. If an indoor unit larger than 54,000 Btu/h is to be used, two (2) ports must be twinned using a reverse Y-branch.
7. Connect largest indoor unit to first port of the heat recovery unit.
8. Elevation difference between the heat recovery unit and the indoor unit(s) should not exceed 49 feet.

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REFRIGERANT PIPING DESIGN & LAYOUT BEST PRACTICES

“LATS Multi V Design Software” on page 200
“Design Guideline Summary” on page 201
"Pipe Sizing" on page 203
"Creating a Balanced / Quality Piping System" on page 215
"Manual Layout Procedure" on page 216
"LG Engineered Y-branch Kits and Header Kits" on page 217
"Multi-frame Connectors" on page 219
"Refrigerant Charge" on page 221
"Selecting Field-Supplied Copper Tubing" on page 225
"Refrigerant Piping System Layout" on page 228
“Cut-Sheets” on page 236
"Electrical Connections" on page 242

REFRIGERANT PIPING DESIGN

LATS Multi V Piping Design Software

The proper design and installation of the refrigerant piping system is a critical element of the Multi V system. Multi V III Heat Pump requires two pipes between system components – a liquid line and a vapor line. Multi V III Heat Recovery requires three pipes between the outdoor unit and the heat recovery unit – a liquid line, a low-pressure vapor line, and a high-pressure vapor line. A properly designed refrigerant piping system ensures that refrigerant is delivered to the evaporator coil's electronic expansion valve (EEV) in a pure liquid state free of gas bubbles. A proper design also ensures a sufficient refrigerant gas flow rate in the vapor line that eliminates the possibility of refrigeration oil from collecting in the vapor lines.

Refrigerant Piping Quality Assurance

LG's LATS Multi V software makes designing the refrigerant system easy. LATS Multi V is a Windows®-based application that assists the engineer in the design of the refrigeration distribution pipe system, verifies the design complies with pipe design limitations, applies capacity correction factors, and calculates the system refrigerant charge. The piping system can be entered manually into LATS from a one-line pipe diagram.

The piping system can be engineered manually using the procedure outlined in the "Manual Layout Procedure" on page 214, however, the preferred method is to design the system using LG's LATS Multi V software. **To ensure that the refrigerant piping design meets LG's quality standards, a LATS refrigerant piping design must be provided with every Multi V III order. Following the installation, if any changes or variations to the design are necessary, a new LATS file must be created and provided to LG prior to system commissioning to ensure the proper pipe size has not changed.**

Adjusting LATS Multi V Output for Altitude

When a system is installed at elevations significantly above sea level, the designer must also consider the impact air density has on the capacity of the indoor and outdoor units. An Altitude Correction Factor must be manually applied to the indoor and outdoor unit data provided in the LATS report. Refer to the "Equipment Selection Procedure" on pages 180-190 for more information.

Design Choices

LATS Multi V software is flexible, offering the HVAC system engineer a choice of two design methods: CAD mode and Tree mode.

CAD Mode

Using the CAD mode, the refrigerant pipe design and layout work is performed concurrently. Simply import a copy of a plan view drawing (.dwg format) for floor of the structure into LATS Multi V software. Multi V air-source units, heat recovery units, and indoor units can be selected from drag and drop lists and placed on the floor plan drawing(s), and interconnecting pipes between system components will be drafted directly on the drawing set. LATS will size the refrigerant piping, certify the design, and provide a detailed materials report and system schematic. Use the export feature to create a CAD file (.dxf format) that can subsequently be imported into the building design drawings.

- Import the building's architectural CAD (.dwg format).
- Import building loads from an external file (.xls format).
- Layout refrigerant piping directly onto an overlay of the building drawing.
- Automatically calculates pipe segment lengths based on drawing layout.
- Creates an export image file for import to the building drawing set (.dxf format).
- Generates a system engineering report (.xls format).

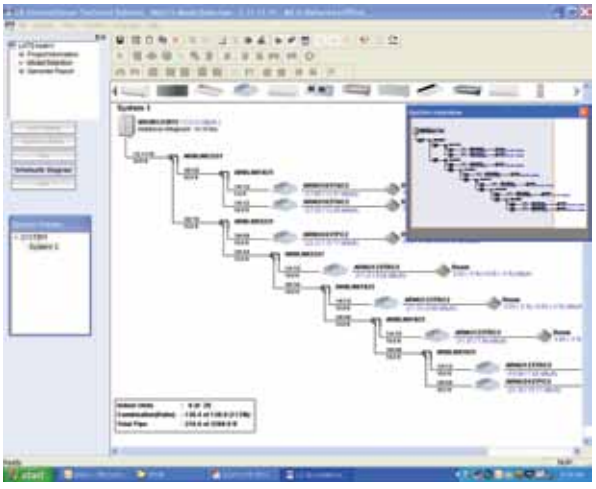
Tree Mode

Using the TREE mode, the engineer can quickly create a one-line schematic drawing of the Multi V III system. Integration of the engineered pipe system into the building drawings is done at a later date by the draftsperson using standard drafting software tools.

- Import building loads from an external file (.xls format).
- System components selected using an easy drag and drop process.
- Automatically analyzes and checks the design complies with most piping design limitations.
- Sizes refrigerant piping.
- Generates a system engineering report (.xls format).

In either case, LATS Multi V software generates a report file (.xls format) containing project design parameters, cooling and heating design day system component performance, and capacity data. The report calculates the system combination ratio, calculates the system refrigerant charge, and provides detailed bill of material information including a list of Multi V III outdoor units, air handlers, control devices, accessories, refrigerant pipe sizes segregated by building, by system, by pipe size, and by pipe segments.

Figure 30: Screenshot of LATS Pipe System Design Tool in Tree Mode.



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Device Connection Limitations

- The minimum number of connected and operating indoor units to Multi V III systems is one, taking into consideration of the minimum combination ratio.
- The maximum number of indoor units on Multi V III outdoor heat pump and heat recovery systems is:

ARUN072BT3-DT3 / ARUB072BT3-DT3 = 13
ARUN096BT3-DT3 / ARUB096BT3-DT3 = 16
ARUN121BT3-DT3 / ARUB121BT3-DT3 = 20
ARUN144BT3-DT3 / ARUB144BT3-DT3 = 23
ARUN168BT3-DT3 / ARUB168BT3-DT3 = 29
ARUN192BT3-DT3 / ARUB192BT3-DT3 = 32
ARUN216BT3-DT3 / ARUB216BT3-DT3 = 35
ARUN240BT3-DT3 / ARUB240BT3-DT3 = 39
ARUN264BT3-DT3 / ARUB264BT3-DT3 = 42
ARUN288BT3-DT3 / ARUB288BT3-DT3 = 45
ARUN312BT3-DT3 / ARUB312BT3-DT3 = 52
ARUN336BT3-DT3 / ARUB336BT3-DT3 = 55
ARUN360BT3-DT3 / ARUB360BT3-DT3 = 58
ARUN384BT3-DT3 / ARUB384BT3-DT3 = 61
ARUN408BT3-DT3 / ARUB408BT3-DT3 = 64
ARUN432BT3-DT3 / ARUB432BT3-DT3 = 64

One of the most critical elements of a Multi V III system is the refrigerant piping. The table below lists pipe length limits that must be followed in the design of a Multi V III refrigerant pipe system:

Table 34: Multi V III Refrigerant Piping System Limitations.

Pipe Length (ELF = Equivalent Length of pipe in Feet)	Longest total equivalent piping length	3,280 feet
	Longest distance from outdoor unit to indoor unit	656 feet (Actual) 738 feet (Equivalent)
	Distance between fittings and indoor units	≥20 inches
	Distance between fittings and Y-branches	≥20 inches
	Distance between two Y-branches	≥20 inches
	Distance between two series-piped heat recovery units	≥20 inches
	Minimum distance between indoor unit to any Y-branch	3 feet from indoor unit to Y-branch
	Maximum distance between first Y-branch to farthest indoor unit	131 feet (295 feet for conditional applications)
Elevation (All Elevation Limitations are Measured in Actual Feet)	If outdoor unit is above or below indoor unit	360 feet
	Between any two indoor units	49 feet
	Between indoor units connected to a heat recovery unit (ARUB Series only)	49 feet

Table 35: Equivalent Piping Length for Y-branches, Headers, and Other Piping Components.

Component	Size (Inches)													
	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2	1-5/8	1-3/4	2-1/8
Elbow (ft.)	0.5	0.6	0.7	0.8	1.2	1.3	1.5	1.6	1.8	2.0	2.1	2.3	2.5	2.8
Y-branch (ft.)[1]	1.6													
Header (ft.)	3.3													
Heat Recovery Unit (ft.) (For ARUB Heat Recovery Units only)	8.2													

[1]Kit for ARUN Heat Pump systems contains two Y-branches: one for liquid and one for vapor; Kit for ARUB Heat Recovery systems contains three Y-branches: one for liquid, one for low-pressure vapor, one for high-pressure vapor.

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REFRIGERANT PIPING DESIGN

Design Guideline Summary

Figure 31: Typical VRF Heat Pump System Building Layout.

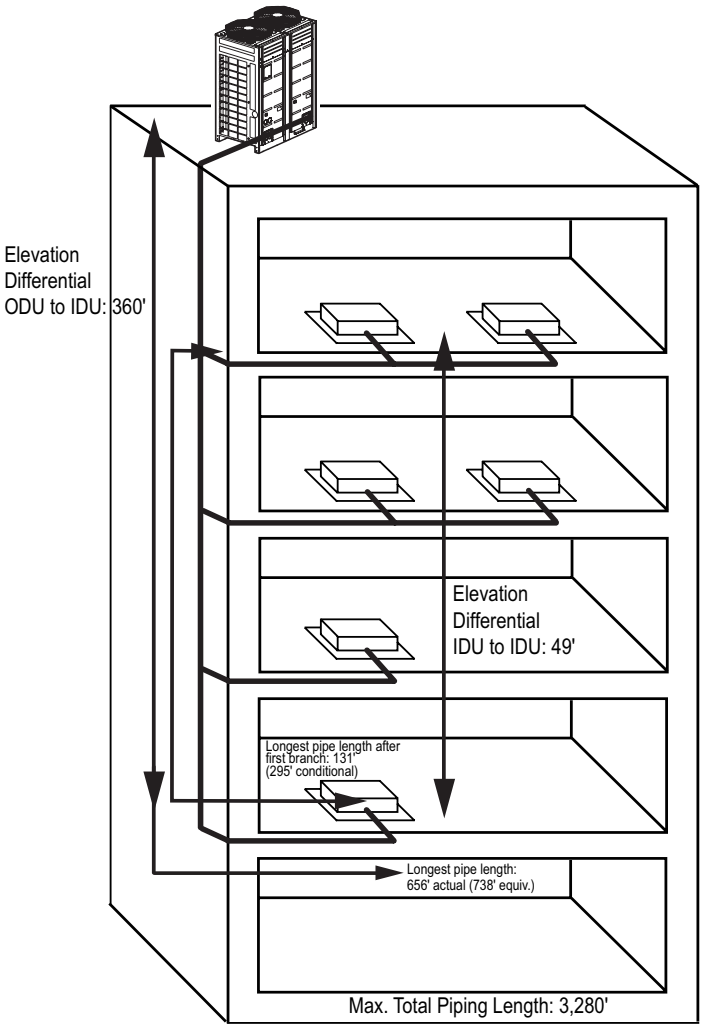
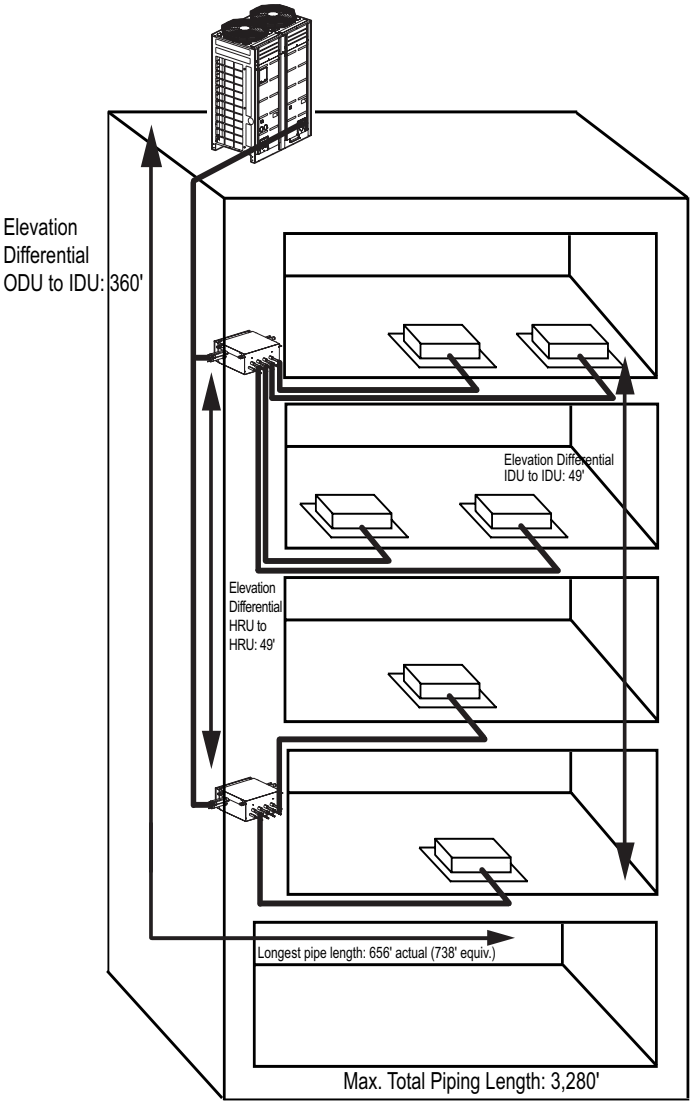


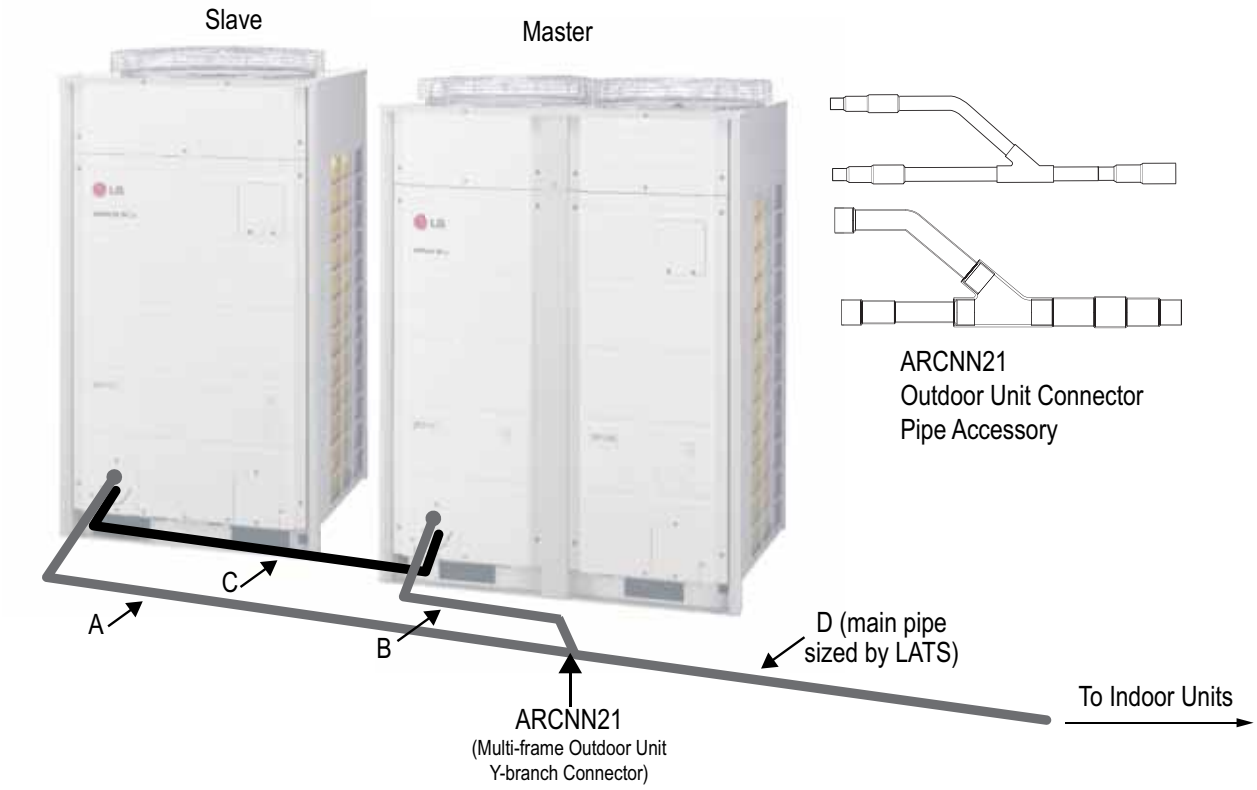
Figure 32: Typical VRF Heat Recovery System Building Layout.



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Dual-Frame Heat Pump Outdoor Unit Connections

Figure 33: Heat Pump Dual-Frame Connections.



A and B diameters match outdoor unit connection diameters. Main pipe D diameters are sized by LATS. See the table below for C diameter.

Table 36: Heat Pump Dual-Frame Connection Pipe Sizes.

Size (tons)	Model	Master	Slave	Common Pipe (C)
14	ARUN168BT3	ARUN096BT3	ARUN072BT3	3/4"
	ARUN168DT3	ARUN096DT3	ARUN072DT3	
16	ARUN192BT3	ARUN121BT3	ARUN072BT3	3/4"
	ARUN192DT3	ARUN121DT3	ARUN072DT3	
18	ARUN216BT3	ARUN144BT3	ARUN072BT3	3/4"
	ARUN216DT3	ARUN144DT3	ARUN072DT3	
20	ARUN240BT3	ARUN144BT3	ARUN096BT3	3/4"
	ARUN240DT3	ARUN144DT3	ARUN096DT3	
22	ARUN264BT3	ARUN144BT3	ARUN121BT3	3/4"
	ARUN264DT3	ARUN144DT3	ARUN121DT3	
24	ARUN288BT3	ARUN144BT3	ARUN144BT3	3/4"
	ARUN288DT3	ARUN144DT3	ARUN144DT3	

⚠ ***Not***

- *Larger-capacity outdoor units must be the master in a multi-frame system.*
- *Single-compressor outdoor units (72,000 Btu/h capacity) cannot be the master outdoor units in a multi-frame system.*
- *Master outdoor unit capacity must be greater than or equal to the slave1 outdoor unit capacity, and, where applicable, slave1 outdoor unit capacity must be greater than or equal to the slave2 outdoor unit capacity.*
- *Insulate all refrigerant system piping and piping connections as detailed on page 235.*

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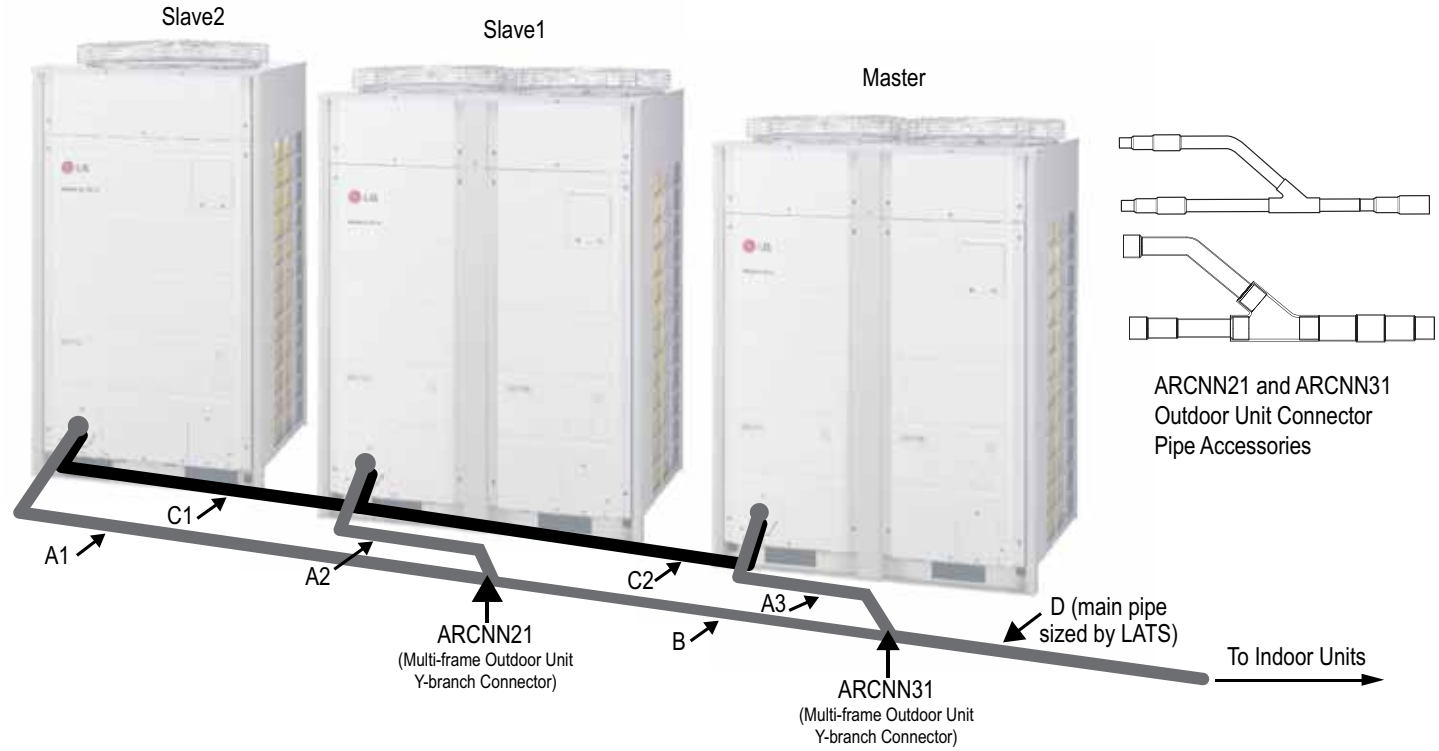
REFRIGERANT PIPING DESIGN

MULTI V III

Pipe Sizing for ARUN Series Heat Pump Systems

Triple-Frame Heat Pump Outdoor Unit Connections

Figure 34: Heat Pump Triple-Frame Connections.



A1, A2, and A3 diameters match the outdoor unit connection diameters. Main pipe D diameters are sized by LATS. See the table below for B, C1, and C2 diameters.

Table 37: Heat Pump Triple-Frame Connection Pipe Sizes.

Size (tons)	Model	Master	Slave1	Slave2	B		Common Pipe (C1)	Common Pipe (C2)
					Liquid	Vapor		
26	ARUN312BT3	ARUN144BT3	ARUN096BT3	ARUN072BT3	1/2"	1-1/8"	3/4"	3/4"
	ARUN312DT3	ARUN144DT3	ARUN096DT3	ARUN072DT3				
28	ARUN336BT3	ARUN144BT3	ARUN121BT3	ARUN072BT3	5/8"	1-1/8"	3/4"	3/4"
	ARUN336DT3	ARUN144DT3	ARUN121DT3	ARUN072DT3				
30	ARUN360BT3	ARUN144BT3	ARUN144BT3	ARUN072BT3	5/8"	1-1/8"	3/4"	3/4"
	ARUN360DT3	ARUN144DT3	ARUN144DT3	ARUN072DT3				
32	ARUN384BT3	ARUN144BT3	ARUN144BT3	ARUN096BT3	5/8"	1-3/8"	3/4"	3/4"
	ARUN384DT3	ARUN144DT3	ARUN144DT3	ARUN096DT3				
34	ARUN408BT3	ARUN144BT3	ARUN144BT3	ARUN121BT3	5/8"	1-3/8"	3/4"	3/4"
	ARUN408DT3	ARUN144DT3	ARUN144DT3	ARUN121DT3				
36	ARUN432BT3	ARUN144BT3	ARUN144BT3	ARUN144BT3	3/4"	1-3/8"	3/4"	3/4"
	ARUN432DT3	ARUN144DT3	ARUN144DT3	ARUN144DT3				

Note:

- *Larger-capacity outdoor units must be the master in a multi-frame system.*
- *Single-compressor outdoor units (72,000 Btu/h capacity) cannot be the master outdoor untis in a multi-frame system.*
- *Master outdoor unit capacity must be greater than or equal to the slave1 outdoor unit capacity, and, where applicable, slave1 outdoor unit capacity must be greater than or equal to the slave2 outdoor unit capacity.*
- *Insulate all refrigerant system piping and piping connections as detailed on page 235.*

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REFRIGERANT PIPING INSTALLATION

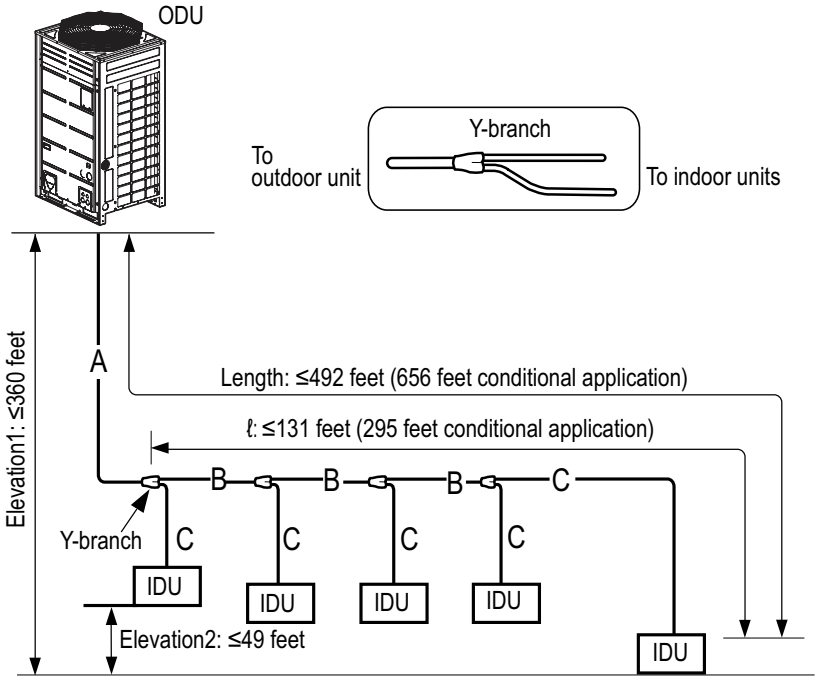
Pipe Sizing for ARUN Series Heat Pump Systems

The following is an example of manual pipe size calculations. Designers are highly encouraged to use LATS instead of manual calculations.

Y-branch Pipe Sizing for a Single Outdoor Unit System

Example: Five (5) indoor units connected

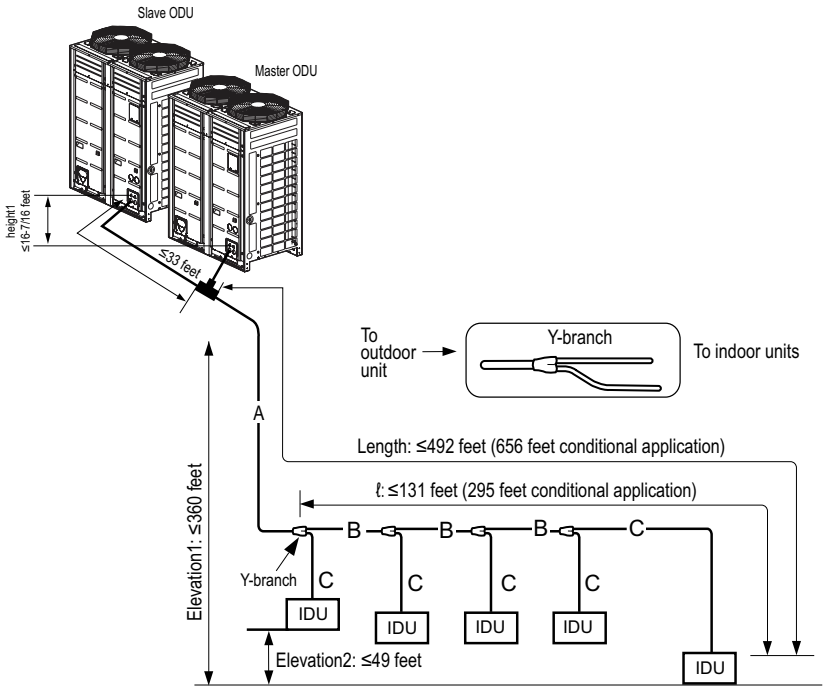
ODU: Outdoor Unit.
IDU: Indoor Units.
A: Main Pipe from Outdoor Unit to Y-branch.
B: Y-branch to Y-branch.
C: Y-branch to Indoor Unit.



Y-branch Pipe Sizing When Installing a Dual-Frame System

Example: Five (5) indoor units connected

ODU: Outdoor Units.
IDU: Indoor Units.
A: Main Pipe from Outdoor Unit to Y-branch.
B: Y-branch to Y-branch.
C: Y-branch to Indoor Unit.



⚠ *Note:*

- *Larger-capacity ODUs must be the master in a multi-frame system.*
- *Single-compressor ODUs (72,000 Btu/h capacity) cannot be the master ODU in a multi-frame system.*
- *Master ODU capacity must be greater than or equal to the slave ODU capacity.*

⚠ *Note:*

See pages 207-208 for refrigerant pipe diameter and pipe length tables.

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REFRIGERANT PIPING DESIGN

MULTI V III

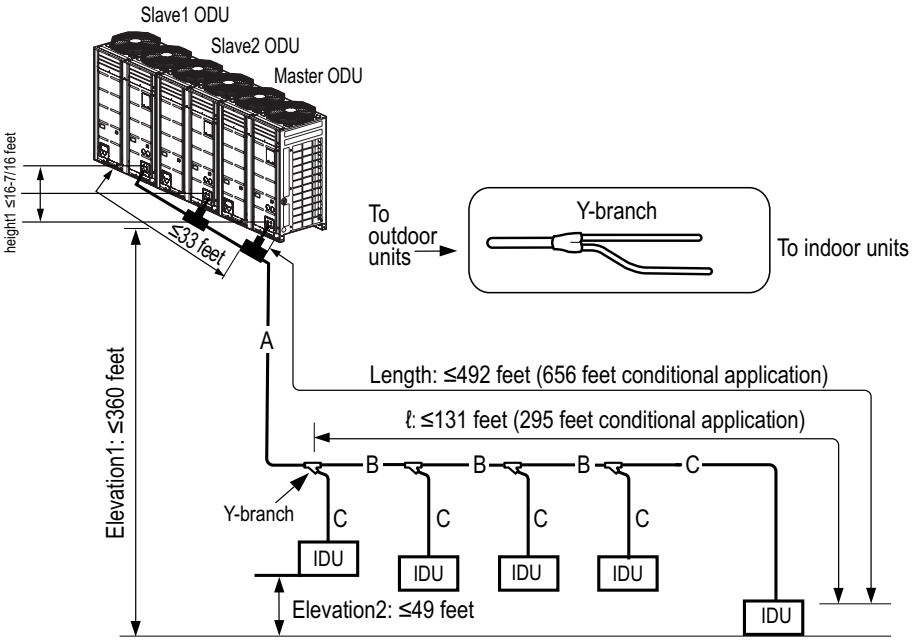
Pipe Sizing for ARUN Series Heat Pump Systems

The following is an example of manual pipe size calculations. Designers are highly encouraged to use LATS instead of manual calculations.

Y-branch Pipe Sizing When Installing a Triple-Frame System

Example: Five (5) indoor units connected

ODU: Outdoor Units.
IDU: Indoor Units.
A: Main Pipe from Outdoor Unit to Y-branch.
B: Y-branch to Y-branch.
C: Y-branch to Indoor Unit.



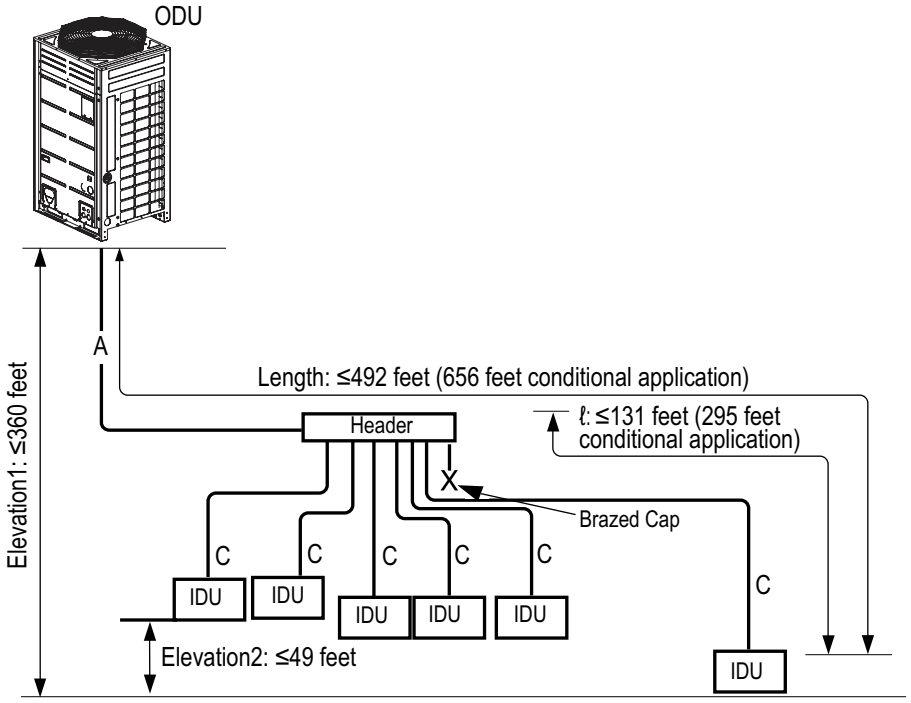
⚠ Note:

- *Larger-capacity outdoor units must be the master in a multi-frame system.*
- *Single-compressor outdoor units (72,000 Btu/h capacity) cannot be the master outdoor unit in a multi-frame system.*
- *Master outdoor unit capacity must be greater than or equal to the slave1 outdoor unit capacity, and, where applicable, slave1 outdoor unit capacity must be greater than or equal to the slave2 outdoor unit capacity.*

Header Pipe Sizing When Installing a Single Outdoor Unit System

Example: Six (6) indoor units connected

ODU: Outdoor Unit.
IDU: Indoor Units.
A: Main Pipe from Outdoor Unit to Header.
C: Header to Indoor Unit.



⚠ Note:

See pages 207-208 for refrigerant pipe diameter and pipe length tables.

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REFRIGERANT PIPING INSTALLATION

Pipe Sizing for ARUN Series Heat Pump Systems

The following is an example of manual pipe size calculations. Designers are highly encouraged to use LATS instead of manual calculations.

Combination Y-branch Pipe and Header Pipe Sizing When Installing a Dual-Frame System

Example: Five (5) indoor units connected

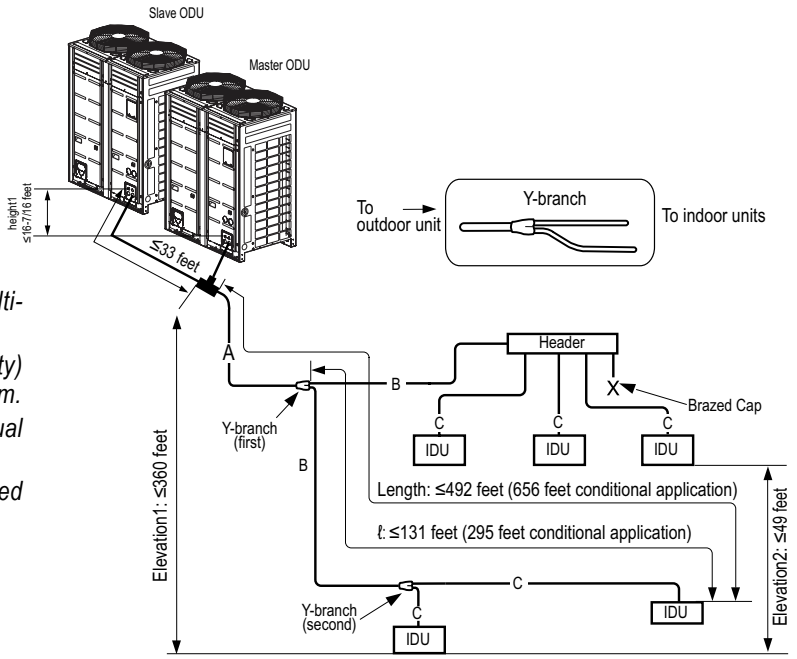
ODU: Outdoor Units.

IDU: Indoor Units.

A: Main Pipe from Outdoor Unit to First Y-branch.

B: Y-branch to Y-branch / Header.

C: Y-branch / Header to Indoor Unit.



⚠ Note:

- *Larger-capacity outdoor units must be the master in a multi-frame system.*
- *Single-compressor outdoor units (72,000 Btu/h capacity) cannot be the master outdoor units in a multi-frame system.*
- *Master outdoor unit capacity must be greater than or equal to the slave outdoor unit capacity.*
- *Y-branches and other header branches cannot be installed downstream of the initial header branch.*

⚠ Note:

See pages 207-208 for refrigerant pipe diameter and pipe length tables.

Table 38: Main Pipe (A) Diameter from Outdoor Unit to First Y-branch / Header Branch.

ODU Capacity (ton)	Pipe diameter when pipe length is <295 feet		Pipe diameter when pipe length is ≥295 feet		Pipe diameter when height differential (ODU ↔ IDU) is >164 feet	
	Liquid pipe (inches OD)	Vapor pipe (inches OD)	Liquid pipe (inches OD)	Vapor pipe (inches OD)	Liquid pipe (inches OD	Vapor pipe (inches OD)
6	3/8Ø	3/4Ø	1/2Ø	7/8Ø	1/2Ø	3/4Ø
8	3/8Ø	7/8Ø	1/2Ø	1Ø	1/2Ø	7/8Ø
10	1/2Ø	1-1/8Ø	5/8Ø	1-1/8Ø	5/8Ø	1-1/8Ø
12	1/2Ø	1-1/8Ø	5/8Ø	1-1/8Ø	5/8Ø	1-1/8Ø
14	5/8Ø	1-1/8Ø	3/4Ø	1-1/4Ø	3/4Ø	1-1/8Ø
16	5/8Ø	1-1/8Ø	3/4Ø	1-1/4Ø	3/4Ø	1-1/8Ø
18	5/8Ø	1-1/8Ø	3/4Ø	1-1/4Ø	3/4Ø	1-1/8Ø
20	5/8Ø	1-3/8Ø	3/4Ø	1-3/8Ø	3/4Ø	1-3/8Ø
22	3/4Ø	1-3/8Ø	7/8Ø	1-1/2Ø	7/8Ø	1-3/8Ø
24	3/4Ø	1-3/8Ø	7/8Ø	1-1/2Ø	7/8Ø	1-3/8Ø
26	3/4Ø	1-3/8Ø	7/8Ø	1-1/2Ø	7/8Ø	1-3/8Ø
28	3/4Ø	1-3/8Ø	7/8Ø	1-1/2Ø	7/8Ø	1-3/8Ø
30	3/4Ø	1-5/8Ø	7/8Ø	1-5/8Ø	7/8Ø	1-5/8Ø
32	3/4Ø	1-5/8Ø	7/8Ø	1-5/8Ø	7/8Ø	1-5/8Ø
34	3/4Ø	1-5/8Ø	7/8Ø	1-5/8Ø	7/8Ø	1-5/8Ø
36	3/4Ø	1-5/8Ø	7/8Ø	1-5/8Ø	7/8Ø	1-5/8Ø

Table 39: Refrigerant Pipe Diameter (B) from Y-branch to Y-branch / Header.

Downstream Total Capacity of IDUs (Btu/h)[1]	Liquid pipe (inches OD)	Vapor pipe (inches OD)
≤19,100	1/4Ø	1/2Ø
≤54,600	3/8Ø	5/8Ø
≤76,400	3/8Ø	3/4Ø
≤114,700	3/8Ø	7/8Ø
≤172,000	1/2Ø	1-1/8Ø
≤229,400	5/8Ø	1-1/8Ø
≤248,500	5/8Ø	1-3/8Ø
≤344,000	3/4Ø	1-3/8Ø
≤592,500	3/4Ø	1-5/8Ø

[1]For the first branch pipe, use the branch pipe that matches main pipe A diameter.

Table 40: Indoor Unit Connecting Pipe from Branch (C).

Indoor Unit Capacity[1]	Liquid pipe (inches OD)	Vapor pipe (inches OD)
≤19,100	1/4Ø	1/2Ø
≤54,600	3/8Ø	5/8Ø
≤76,400	3/8Ø	3/4Ø

[1]9,600-24,200 Btu/h 4-way 3 feet x 3 feet Cassette and 15,400-24,200 Btu/h High Static Ducted indoor untis have 3/8Ø (liquid) and 5/8Ø (vapor).

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REFRIGERANT PIPING DESIGN

Pipe Sizing for ARUN Series Heat Pump Systems

The following is an example of manual pipe size calculations. Designers are highly encouraged to use LATS instead of manual calculations.

Table 41: Pipe Capabilities.

Length	Total pipe length	Longest actual pipe length	Equivalent pipe length[1]
	A + ΣB + ΣC ≤ 3,280 feet	≤492 feet (656 feet conditional application)	≤574 feet (738 feet conditional application)
ℓ	Longest pipe length after first branch		
	≤131 feet (295 feet conditional application)		
Elevation1	Elevation differential (Outdoor Unit ↔ Indoor Unit)		
	Height ≤360 feet		
Elevation2	Elevation differential (Indoor Unit ↔ Indoor Unit)		
	height ≤49 feet		
height1	Elevation differential (Outdoor Unit ↔ Outdoor Unit)		
	16.4 feet		
Distance between ODU to ODU		≤33 feet (Max. 43 feet for ODU ≥12 tons)	
Distance between fittings and IDU		≥20 inches	
Distance between fittings and Y-branches / Headers		≥20 inches	
Distance between two Y-branches / Headers		≥20 inches	

[1]For calculation purposes, assume equivalent pipe length of Y branches to be 1.6 feet, and the equivalent pipe length of headers to be 3.3 feet.

⚠ *Note:*

- *Connection piping from branch to branch cannot exceed the main pipe diameter (A) used by the outdoor unit.*
- *Y-branches and other header branches cannot be installed downstream of the initial header branch.*
- *Indoor units must be installed at a position lower than the header.*
- *Install the header branch so that the pipe distances between the between the connected indoor units are minimized. Large differences in pipe distances can cause indoor unit performances to fluctuate.*
- *Always reference the LATS Multi V software report.*

Conditional Applications

Conditional application is computed in LATS. See below for an explanation of when pipes are upsized.

If the equivalent length between the first Y-branch to the farthest indoor unit is >131 feet (up to 295 feet maximum):

- Pipe segment diameters between the first Y-branch and the second Y-branch should be sized up by one following the information in Table 42. This applies to both liquid and vapor pipes. If the next size up is not available, or if the piping segment diameters are the same as main pipe (A) diameters, sizing up is not possible.
- While calculating the entire refrigerant pipe length, pipe lengths for ΣB should be multiplied by two: A+(ΣBx2)+ΣC ≤3,281 feet.
- Length of pipe (C) from each indoor unit to the closest Y-branch or header ≤ 131 ft.
- [Length of pipe from outdoor unit to farthest indoor unit (A+B+C)] - [Length of pipe from outdoor unit to closest indoor unit (A+B+C)] ≤131 feet.

Table 42: Pipe Diameters for Standard and Conditional Applications.

Pipe Diameters	
Standard Applications (in. OD)	Conditional Applications (in. OD)
1/4Ø	3/8Ø
3/8Ø	1/2Ø
1/2Ø	5/8Ø
5/8Ø	3/4Ø
3/4Ø	7/8Ø
7/8Ø	1Ø
1-1/8Ø	1-1/4Ø
1-3/8Ø	1-1/2Ø
1-5/8Ø	1-3/4Ø

If the pipe (B) diameters after the first branch are bigger than the main pipe (A) diameters, pipe (B) should changed to match main pipe (A) sizes.

Example: When an indoor unit combination ratio of 120% is connected to a 22-ton outdoor unit:
Outdoor unit main pipe (A) diameters: 1-3/8Ø inches (vapor) and 5/8Ø inches (liquid).

1. Pipe (B) diameters: 1-3/8Ø (vapor) and 3/4Ø (liquid) (after the first branch, when indoor unit combination ratio is 120% [26 tons]).
2. After the first branch, pipe (B) diameters must be changed to 1-3/8Ø inches (vapor) and 5/8Ø inches (liquid) to match main pipe (A) sizes.

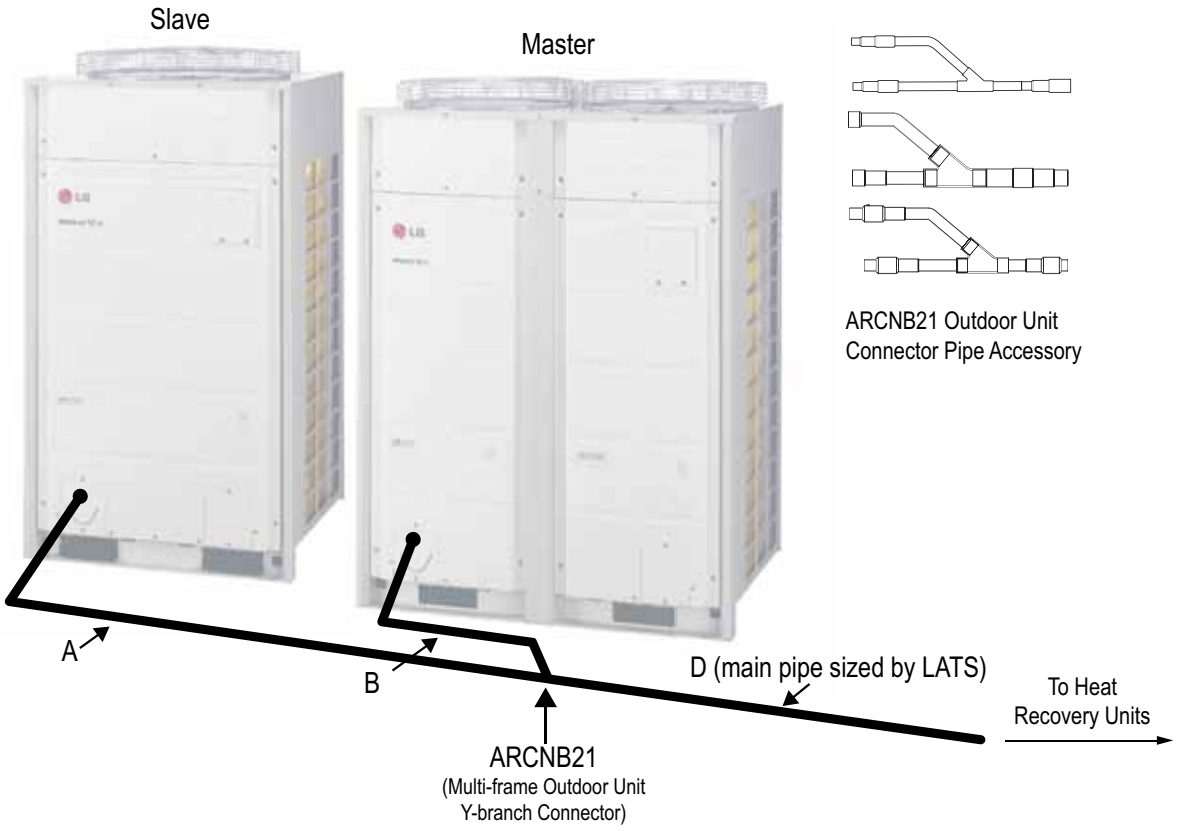
Instead of using the total indoor unit capacity to choose main pipe (A) diameters, use outdoor unit capacity to choose downstream main pipe (A) diameters. Do not permit connection pipes (B) from branch to branch to exceed main pipe (A) diameters as indicated by outdoor unit capacity. Example: When an indoor unit combination ratio of 120% is connected to a 20-ton outdoor unit (24 tons), and indoor unit with a 7,000 Btu/h capacity is located at the first branch:

1. Main pipe (A) diameters on a 20-ton outdoor unit: 1-1/8Ø inches (vapor) and 5/8Ø inches (liquid).
2. Pipe diameters between first and second branches, however, are: 1-3/8Ø (vapor) and 3/4Ø (liquid) (connected downstream indoor unit capacity is 20 tons).
3. If main pipe (A) diameters of a 20-ton outdoor unit are 1-1/8Ø (vapor) and 5/8Ø (liquid), then the pipe diameters between the first and second branches should be changed to match.

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Dual-Frame Heat Recovery Outdoor Unit Connections

Figure 35: Heat Recovery Dual-Frame Connections.



Diameters for A and B match the outdoor unit connection diameters. Main pipe D diameters are sized by LATS.

Table 43: Heat Recovery Dual-Frame Connection Pipe Sizes.

Size (tons)	Model	Master	Slave
14	ARUB168BT3	ARUB096BT3	ARUB072BT3
	ARUB168DT3	ARUB096DT3	ARUB072DT3
16	ARUB192BT3	ARUB121BT3	ARUB072BT3
	ARUB192DT3	ARUB121DT3	ARUB072DT3
18	ARUB216BT3	ARUB144BT3	ARUB072BT3
	ARUB216DT3	ARUB144DT3	ARUB072DT3
20	ARUB240BT3	ARUB144BT3	ARUB096BT3
	ARUB240DT3	ARUB144DT3	ARUB096DT3
22	ARUB264BT3	ARUB144BT3	ARUB121BT3
	ARUB264DT3	ARUB144DT3	ARUB121DT3
24	ARUB288BT3	ARUB144BT3	ARUB144BT3
	ARUB288DT3	ARUB144DT3	ARUB144DT3

⚠ ***Note:***

- *Larger-capacity outdoor units must be the master in a multi-frame system.*
- *Single-compressor outdoor units (72,000 Btu/h capacity) cannot be the master outdoor unit in a multi-frame system.*
- *Master outdoor unit capacity must be greater than or equal to the slave1 outdoor unit capacity, and, where applicable, slave1 outdoor unit capacity must be greater than or equal to the slave2 outdoor unit capacity.*
- *Insulate all refrigerant system piping and piping connections as detailed on page 235.*

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REFRIGERANT PIPING INSTALLATION

Pipe Sizing for ARUB Series Heat Recovery Systems

Triple-Frame Heat Recovery Outdoor Unit Connections

Figure 36: Heat Recovery Triple-Frame Connections.



Diameters for A1, A2, and A3 match the outdoor unit connection diameters. Main pipe D diameters are sized by LATS. See the table below for B diameters.

Table 44: Heat Recovery Triple-Frame Connection Pipe Sizes.

Size (tons)	Model	Master	Slave1	Slave2	B		
					Liquid	Low Pressure Vapor	High Pressure Vapor
26	ARUB312BT3	ARUB144BT3	ARUB096BT3	ARUB072BT3	1/2"	1-1/8"	7/8"
	ARUB312DT3	ARUB144DT3	ARUB096DT3	ARUB072DT3			
28	ARUB336BT3	ARUB144BT3	ARUB121BT3	ARUB072BT3	5/8"	1-1/8"	7/8"
	ARUB336DT3	ARUB144DT3	ARUB121DT3	ARUB072DT3			
30	ARUB360BT3	ARUB144BT3	ARUB144BT3	ARUB072BT3	5/8"	1-1/8"	7/8"
	ARUB360DT3	ARUB144DT3	ARUB144DT3	ARUB072DT3			
32	ARUB384BT3	ARUB144BT3	ARUB144BT3	ARUB096BT3	5/8"	1-3/8"	1-1/8"
	ARUB384DT3	ARUB144DT3	ARUB144DT3	ARUB096DT3			
34	ARUB408BT3	ARUB144BT3	ARUB144BT3	ARUB121BT3	5/8"	1-3/8"	1-1/8"
	ARUB408DT3	ARUB144DT3	ARUB144DT3	ARUB121DT3			
36	ARUB432BT3	ARUB144BT3	ARUB144BT3	ARUB144BT3	3/4"	1-3/8"	1-1/8"
	ARUB432DT3	ARUB144DT3	ARUB144DT3	ARUB144DT3			

Note:

- *Larger-capacity outdoor units must be the master in a multi-frame system.*
- *Single-compressor outdoor units (72,000 Btu/h capacity) cannot be the master outdoor unit in a multi-frame system.*
- *Master outdoor unit capacity must be greater than or equal to the slave1 outdoor unit capacity, and, where applicable, slave1 outdoor unit capacity must be greater than or equal to the slave2 outdoor unit capacity.*
- *Insulate all refrigerant system piping and piping connections as detailed on page 235.*

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REFRIGERANT PIPING DESIGN

Pipe Sizing for ARUB Series Heat Recovery Systems

The following is an example of manual pipe size calculations. Designers are highly encouraged to use LATS instead of manual calculations.

Pipe Sizing When Installing Heat Recovery Units

Example: Triple-frame system, four (4) heat recovery units, one (1) header, and twelve (12) indoor units connected

ODU: Outdoor Units.

HRU: Heat Recovery Units.

IDU: Indoor units.

A: Main Pipe from Outdoor Unit to First Y-branch.

B: Heat Recovery Unit to Heat Recovery Unit, Y-branch to Heat Recovery Unit, Heat Recovery Unit to Header, or Y-branch to Y-branch.

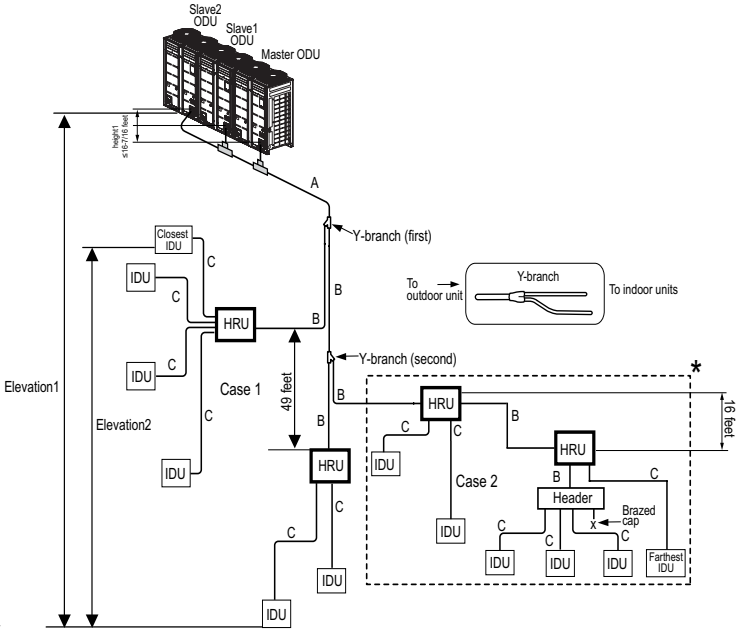
C: Heat Recovery Unit / Header to Indoor Unit.

⚠ *Note:*

- *Connection piping from branch to branch cannot exceed the main pipe diameter (A) used by the outdoor unit.*
- *Install the header branches or heat recovery units so that the pipe distances between the connected indoor units are minimized. Large differences in pipe distances can cause indoor unit performances to fluctuate.*
- *Y-branches and other headers branches cannot be installed downstream of the initial header branch.*
- *Indoor units must be installed at a position lower than the header.*
- *Total capacity of indoor units in series connection of heat recovery units ≤192,400 Btu/h.*
- *If large capacity indoor units (>12,000 Btu/h with piping sizes >5/8Ø / 3/8Ø) are installed, the valve group setting should be used. (Refer to the PCB of the heat recovery unit for the valve group control setting.)*
- *Always reference the LATS Multi V software report.*

⚠ *Note:*

See pages 211-212 for refrigerant pipe diameter and pipe length tables.



Case 1: Maximum height is 49 feet if installed with a Y-branch.
Case 2: Maximum height is 16 feet in heat recovery control unit series connection.

⚠ *Note:*

- *Larger-capacity outdoor units must be the master in a multi-frame system.*
- *Single-compressor outdoor units (72,000 Btu/h capacity) cannot be the master outdoor unit in a multi-frame system.*
- *Master outdoor unit capacity must be greater than or equal to the slave1 outdoor unit capacity, and, where applicable, slave1 outdoor unit capacity must be greater than or equal to the slave2 outdoor unit capacity.*

Table 45: Main Pipe (A) Diameter from Outdoor Unit to First Y-branch.

ODU Capacity (ton)	Standard Pipe Diameter			Pipe diameter when pipe length is ≥295 feet or when height differential (ODU ↔IDU) is >164 feet		
	Liquid Pipe (inches OD)	Low Pressure Vapor Pipe (inches OD)	High Pressure Vapor Pipe (inches OD)	Liquid Pipe (inches OD)	Low Pressure Vapor Pipe (inches OD)	High Pressure Vapor Pipe (inches OD)
6	3/8Ø	3/4Ø	5/8Ø	1/2Ø	3/4Ø	5/8Ø
8	3/8Ø	7/8Ø	3/4Ø	1/2Ø	7/8Ø	3/4Ø
10	1/2Ø	1-1/8Ø	3/4Ø	5/8Ø	1-1/8Ø	3/4Ø
12	1/2Ø	1-1/8Ø	7/8Ø	5/8Ø	1-1/8Ø	7/8Ø
14	5/8Ø	1-1/8Ø	7/8Ø	3/4Ø	1-1/8Ø	7/8Ø
16	5/8Ø	1-1/8Ø	7/8Ø	3/4Ø	1-1/8Ø	7/8Ø
18	5/8Ø	1-3/8Ø	1-1/8Ø	3/4Ø	1-3/8Ø	1-1/8Ø
20	5/8Ø	1-3/8Ø	1-1/8Ø	3/4Ø	1-3/8Ø	1-1/8Ø
22	3/4Ø	1-3/8Ø	1-1/8Ø	7/8Ø	1-3/8Ø	1-1/8Ø
24	3/4Ø	1-3/8Ø	1-1/8Ø	7/8Ø	1-3/8Ø	1-1/8Ø
26	3/4Ø	1-3/8Ø	1-1/8Ø	7/8Ø	1-3/8Ø	1-1/8Ø
28	3/4Ø	1-3/8Ø	1-1/8Ø	7/8Ø	1-3/8Ø	1-1/8Ø
30	3/4Ø	1-5/8Ø	1-1/8Ø	7/8Ø	1-5/8Ø	1-1/8Ø
32	3/4Ø	1-5/8Ø	1-3/8Ø	7/8Ø	1-5/8Ø	1-3/8Ø
34	3/4Ø	1-5/8Ø	1-3/8Ø	7/8Ø	1-5/8Ø	1-3/8Ø
36	3/4Ø	1-5/8Ø	1-3/8Ø	7/8Ø	1-5/8Ø	1-3/8Ø

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REFRIGERANT PIPING DESIGN

MULTI V III

Pipe Sizing for Heat Recovery ARUB Series

The following is an example of manual pipe size calculations. Designers are highly encouraged to use LATS instead of manual calculations.

Table 46: Refrigerant Pipe (B) Diameter between Y-branches and Y-branches / Heat Recovery Unit / Headers.

Downstream IDU total capacity (Btu/h)	Liquid pipe (inches OD)	Vapor pipe (inches OD)	
		Low pressure	High pressure
≤19,100	1/4Ø	1/2Ø	3/8Ø
<54,600	3/8Ø	5/8Ø	1/2Ø
<76,400	3/8Ø	3/4Ø	5/8Ø
<114,700	3/8Ø	7/8Ø	3/4Ø
<172,000	1/2Ø	1-1/8Ø	7/8Ø
<229,400	5/8Ø	1-1/8Ø	7/8Ø
<248.500	5/8Ø	1-3/8Ø	1-1/8Ø
<344,000	3/4Ø	1-3/8Ø	1-1/8Ø
<592,500	3/4Ø	1-5/8Ø	1-3/8Ø

Table 47: Indoor Unit Connecting Pipe from Branch (C).

Indoor Unit Capacity[1]	Liquid pipe (inches OD)	Vapor pipe (inches OD)
≤19,100	1/4Ø	1/2Ø
≤54,600	3/8Ø	5/8Ø
≤76,400	3/8Ø	3/4Ø

[1]9,600-24,200 Btu/h 4-way 3 feet x 3 feet Cassette and 15,400-24,200 Btu/h High Static Ducted IDUs have 3/8Ø (liquid) and 5/8Ø (vapor).

Table 48: Pipe Capabilities.

Length	Total pipe length	Longest actual pipe length	Equivalent pipe length[1]
	A + ΣB + ΣC ≤ 3,280 feet	≤492 feet (656 feet conditional application)	≤574 feet (738 feet conditional application)
ℓ	Longest pipe length after first branch		
	≤131 feet (295 feet conditional application)		
Elevation1	Elevation differential (Outdoor Unit ↔ Indoor Unit)		
	Height ≤360 feet		
Elevation2	Elevation differential (Indoor Unit ↔ Indoor Unit)		
	height ≤49 feet		
height1	Elevation differential (Outdoor Unit ↔ Outdoor Unit)		
	≤16.4 feet		
Distance between Outdoor Unit to Outdoor Unit		≤33 feet (Max. 43 feet for Outdoor Unit ≥12 tons)	
Distance between fittings and Indoor Unit		≥20 inches	
Distance between fittings and Y-branches / Headers		≥20 inches	
Distance between two Y-branches / Headers		≥20 inches	
Distance between two Heat Recovery Units if installed with a Y-branch		≤49 feet	
Height differential between two series-piped Heat Recovery Units		≤16 feet	

[1]For calculation purposes, assume equivalent pipe length of Y-branches to be 1.6 feet, and the equivalent pipe length of headers to be 3.3 feet.

Conditional Applications

Conditional application is computed in LATS. See below for an explanation of when pipes are upsized.

If the equivalent length between the first Y-branch to the farthest indoor unit is >131 feet (maximum 295 feet):

- Pipe segment diameters between the first branch and the last branch should be sized up by one following the information in Table 49. This applies to both liquid and low / high vapor pipes. If the next size up is not available, or if the pipe segment diameters are the same as main pipe (A) diameters, sizing up is not possible.
- While calculating total refrigerant piping length, pipe (B) segment lengths between the first Y-branch and second Y-branch, and between the second Y-branch and the heat recovery unit should be calculated by two.
- Length of pipe (C) from each indoor unit to the closest Y-branch, header, or heat recovery unit ≤131 feet.
- [Length of pipe from outdoor unit to farthest indoor unit (A+B+C)] - [Length of pipe from outdoor unit to closest indoor unit (A+B+C)] ≤131 feet.

Table 49: Pipe Diameters for Standard and Conditional Applications.

Pipe Diameters	
Standard Applications (in. OD)	Conditional Applications (in. OD)
1/4Ø	3/8Ø
3/8Ø	1/2Ø
1/2Ø	5/8Ø
5/8Ø	3/4Ø
3/4Ø	7/8Ø
7/8Ø	1Ø
1-1/8Ø	1-1/4Ø
1-3/8Ø	1-1/2Ø
1-5/8Ø	1-3/4Ø

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Other Examples of Y-branch, Header and Heat Recovery Unit Connections

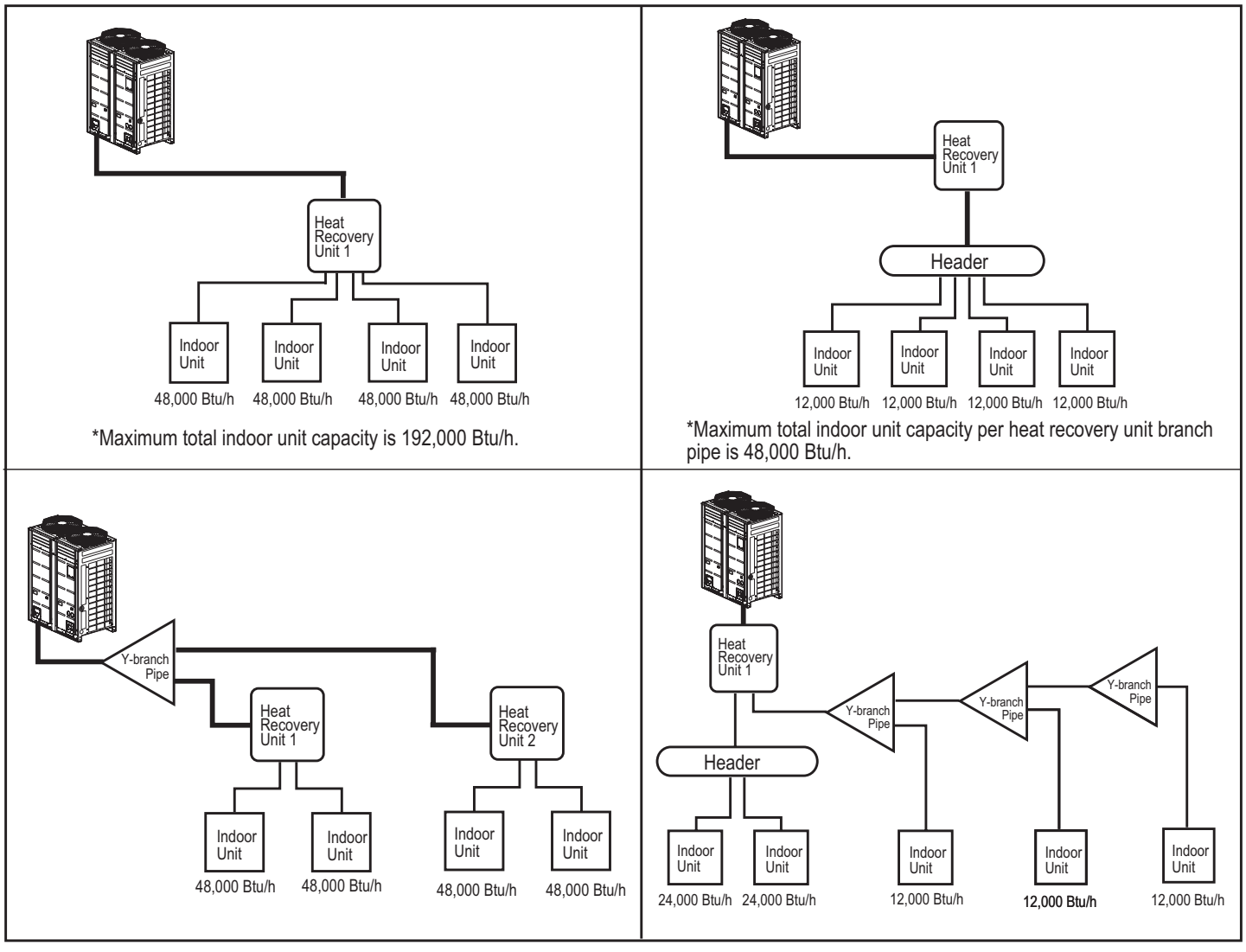


Pipe installation from outdoor units to heat recovery units

——— : Three (3) pipes (Low-pressure vapor pipe, High-pressure vapor pipe, Liquid pipe)

Pipe installation from heat recovery units to indoor units

——— : Two (2) pipes (Vapor pipe, Liquid pipe)



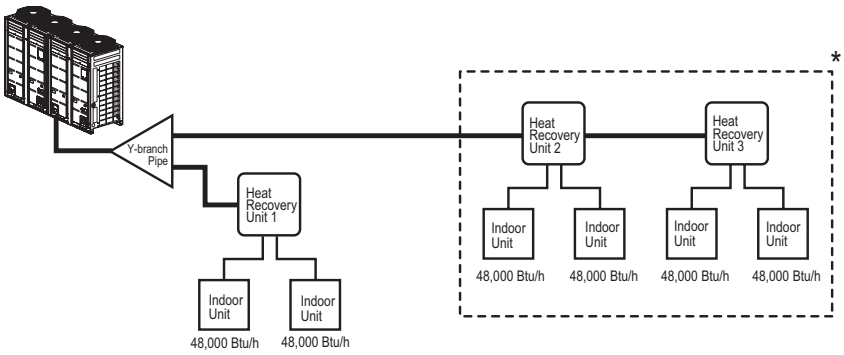
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REFRIGERANT PIPING DESIGN

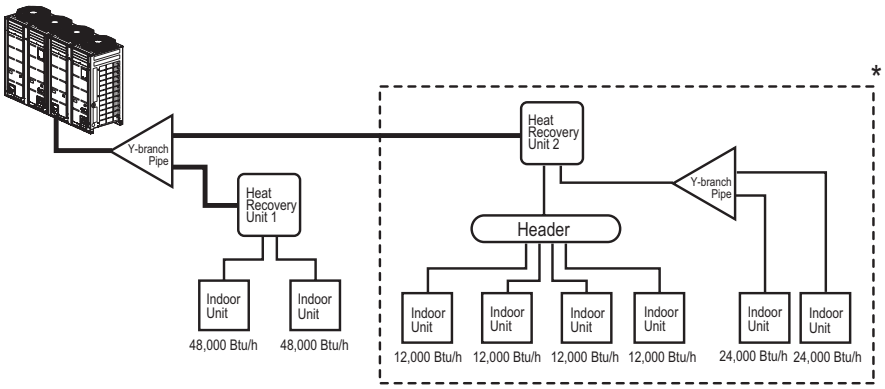
MULTI V III

Pipe Sizing for ARUB Series Heat Recovery Systems

Other Examples of Y-branch, Header and HRU Connections

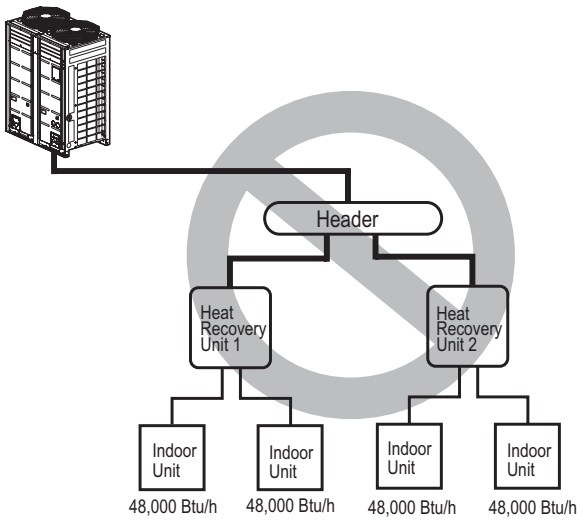


*Serial connection of Heat Recovery Units: Total capacity of indoor units ≤192,000 Btu/h.

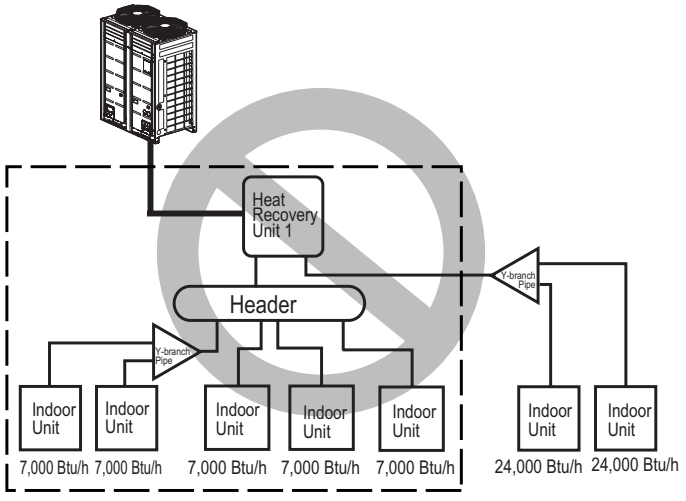


*Maximum indoor units per Header branch is eight (8).

Examples of Improper Connections



*Improper installation: Header branch pipe → heat recovery unit.



*Improper installation: Heat recovery unit → Header branch pipe → Y-branch and Header branch pipe.

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LG

REFRIGERANT PIPING DESIGN

Creating a Balanced / Quality Piping System

Creating a Balanced Piping System

Unlike designing duct-work or chilled and hot water pipe systems where balancing dampers, ball valves, orifices, circuit setters, or other flow control devices can be installed to modify or balance the flow of cooling medium, these cannot be used in a VRF system. Therefore, variable refrigerant flow systems have to be designed to be "self balanced." Balanced liquid refrigerant distribution is solely dependent on the designer choosing the correct pipe size for each segment. Pipe sizing considerations include pipe length, pipe segment pressure drop relative to other pipe segments in the system, type and quantity of elbows, bends present, fitting installation orientation, and end use device elevation differences.

⚠ ***Note:***

It is imperative the designer avoids creating excessive pressure drop. When liquid refrigerant is subjected to excessive pressure drop, liquid refrigerant will change state and "flash" to vapor. Vapor present in a stream of liquid refrigerant before reaching the electronic expansion valve (EEV) results in a loss of system control and causes damage to the valve. The pipe system must be designed in a manner that avoids the creation of unwanted vapor.

Refrigerant Piping System Quality Assurance

To ensure that the refrigerant piping design meets LG's quality standards, a LATS refrigerant piping design software report must be provided with every Multi V III order. Following the installation, if any changes or variations to the design were necessary, an "as-built" LATS piping design software report must be provided to LG prior to system commissioning.

Systems that are close to the standard application limits may be converted into a conditional application by field changes to pipe equivalent lengths. User should always check the LATS report actual pipe layout versus pipe limits. The user may want to increase pipe lengths when conditions close to the standard application limits are present, forcing increased pipe diameters seen in conditional applications to be used and avoiding pipe changes due to field installation variations.

⚠ ***Note:***

Any field changes, such as re-routing, shortening or lengthening a pipe segment, adding or eliminating elbows and/or fittings, re-sizing, adding, or eliminating indoor units, changing the mounting height or moving the location of a device or fitting during installation should be done with caution and ***ALWAYS VERIFIED in LATS MULTI V SOFTWARE*** *before supplies are purchased or installed. Doing so ensures profitable installation, eliminates rework, and ensures easier system commissioning.*

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REFRIGERANT PIPING DESIGN

Manual Layout Procedure

1. Choose the location of the indoor units on the building drawing.
2. Choose the location of all Y-branch fittings, header fittings, and heat recovery units, if possible, and draw them on the building drawings. Verify that all fittings are positioned per the guideline limitations set forth in "Y-branch Kits" on page 217 and "Header Kits" on page 218.
3. Plan the route for interconnecting piping. Draw a one-line depiction of the pipe route chosen on the building drawings.
4. Calculate the actual length of each pipe segment and note it on the drawing.
5. Using the data obtained while selecting the system components on pages 180-190, list the nominal cooling capacity next to each indoor unit on the drawing.
6. Starting at the indoor unit located farthest from the outdoor unit, sum the connected nominal capacity of all indoor units served by the pipe segment for each branch and runout pipe. Record these values next to each segment on the drawing.
7. Use tables on pages 203-204 or 207-208 to determine the pipe size of the liquid and vapor lines of all pipes.
8. Starting at the indoor unit located farthest from the outdoor unit, sum the capacity of liquid line pipe segments located between the indoor unit(s) and each Y-branch fitting, header fitting, and heat recovery unit. Record these values next to each Y-branch, header, and/or heat recovery unit on the drawing.
9. Use tables on pages 207-208 or 211-212 to verify the pipe size of the liquid and vapor line(s) of all pipes.
10. Refer to Cut-Sheets, “Y-branch Kits” on pages 237 and 239, “Header Kits” on pages 240-241, and heat recovery units on pages 39-41 to determine the part number of each Y-branch, header, and/or heat recovery unit based on the connected downstream nominal capacity served.
11. Calculate the equivalent pipe length in feet of each pipe segment. Y-branch and header equivalent lengths should be totaled with the upstream segment only. Use equivalent pipe length data when it is provided with the field purchased fittings. If not available, use the data provided on pages 190-191 to estimate the equivalent length of field-provided pipe and fittings for each segment. Y-branch and header equivalent lengths are also found in the Cut-Sheets on pages 237-241. Equivalent lengths should be totaled with the upstream segment only.
12. Verify if the equivalent pipe length complies with the limitations in “Multi V III Refrigerant Piping System Limitations” Table on page 201. If the limitations are exceeded, either reroute the pipe or change the location of the Y-branch fittings, header fittings, heat recovery units, and/or indoor unit locations so the design conforms with all limitations.
13. If adjusted as per Step 12 above, verify again if the length of the design complies with the limitations set in “Multi V III Refrigerant Piping System Limitations” on page 201.
14. Verify that the manually sized pipe design is acceptable using LATS Multi V. When entering the length of pipe segments in LATS Multi V software, enter the equivalent pipe length. Account for the additional pressure drop created by elbows, valves, and other fittings present in each segment by adding their respective equivalent pipe length to the actual pipe length.

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LG Y-branch and Header kits are highly engineered devices designed to evenly divide the flow of refrigerant, and are used to join one pipe segment to two or more segments.

⚠ *Note:*

No Substitutions

Only LG supplied Y-branch and Header fittings can be used to join one pipe segment to two or more segments. Third-party or field-fabricated Tee's, Y-fittings, Headers, or other branch fittings are not qualified for use with LG Multi V III systems. The only field-provided fittings allowed in a Multi V III piping system are 45° and 90° elbows.

LG Y-branch kits consist of:

- Y-branches (liquid line, vapor lines).
- Reducer fittings as applicable.
- Molded clam-shell type insulation covers.

LG Header kits consist of:

- Two Headers (one liquid line, one vapor line).
- Reducer fittings as applicable.
- Molded clam-shell type insulation covers.

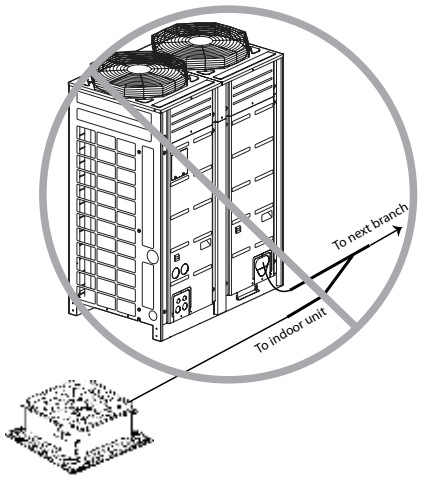
Y-Branch Kits

LG supplied Y-branches must be used at each transition. Field-supplied "T" fittings or "Y" branches will not be accepted. Each LG supplied Y-branch kit comes with two (2) Y-branches for indoor units, three (3) Y-branches for heat recovery units, step-down pipe reducers, and insulation covers.

Y-branches may be installed in horizontal or vertical configurations. When installed vertically, position the Y-branch so the straight-through leg is ±3° of plumb. See Figure 38. When installed horizontally, position the Y-branch so the take-off leg is level and shares the same horizontal plane as the straight-through leg ±10° rotation as shown in Figure 39.

There is no limitation on the number of Y-branches that can be installed, but there is a limitation on the number of indoor units connected to a single outdoor unit. See Table 26 on page 185.

Figure 41: Diagram of an Incorrect Y-branch Installation.



Y-branches should always be installed with the single port facing the outdoor unit, the two-port end facing indoor units (see Figure 37. Do not install Y-branches backwards as shown in Figure 41. Refrigerant flow cannot make U-turns through Y-branches. The first Y-branch kit must be located at least three (3) feet from the outdoor unit. Provide a minimum of 20 inches between a Y-branch and any other fittings or indoor unit piped in series.

It is recommended that when a Y-branch is located in a pipe chase or other concealed space, access doors should be provided for inspection access.

The equivalent pipe length of each Y-branch (1.6') must be added to each pipe segment entered into LATS piping design software.

Figure 37: Y-branch Connections.

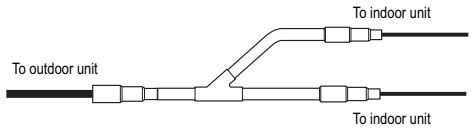
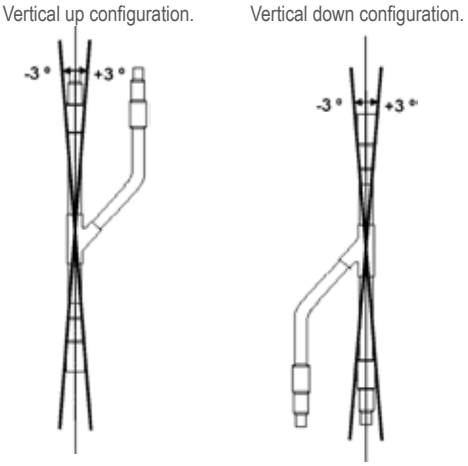


Figure 38: Y-branch Installation Alignment Specification.



Y-branch Insulation

Each Y-branch kit comes with clam-shell type peel-and-stick insulation jackets molded to fit the Y-branch fittings as shown in Figure 40—one for the liquid line, one for the vapor line(s).

- Check the fit of the Y-branch clam-shell insulation jacket after the Y-branch is installed.
- Mark the pipe where the insulation jacket ends.
- Remove the jacket.
- Install field-provided insulation on the three (3) pipes first.
- Peel the adhesive glue protector slip and install the clam-shell jacket over the fitting.

Figure 39: Horizontal Configuration End View.

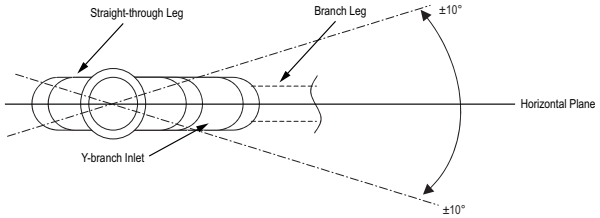
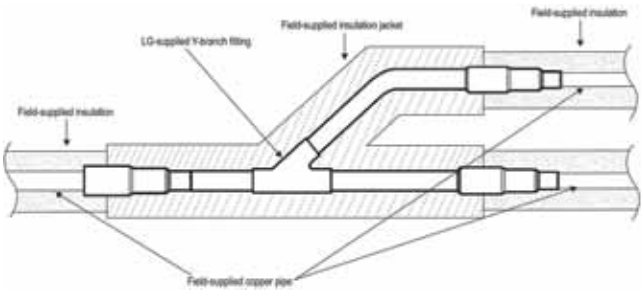


Figure 40: Y-branch Insulation and Pipe Detail.



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REFRIGERANT PIPING DESIGN

LG Engineered Y-branch Kits and Header Kits

Header Kits

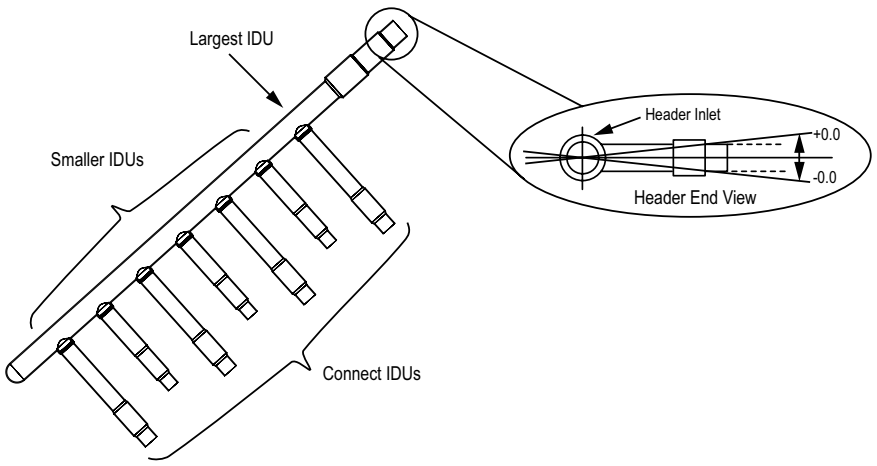
⚠ *Note:*

Install Correctly

- *Y-branches can be installed upstream between the Header and the outdoor unit, but a Y-branch cannot be installed between a header and an indoor unit.*
- *To avoid the potential of uneven refrigerant distribution through a header fitting, minimize the difference in equivalent pipe length between the header fitting and each connected indoor unit.*

Header kits are intended for use where multiple indoor units are in the same vicinity and it would be better to "home-run" the run-out pipes back to a centralized location. If connecting multiple indoor units that are far apart, Y-branches may be more economical. See pages 238-239 for Header kit specifications and capacities.

Figure 42: Header Kit—Horizontal Rotation Limit (Must be Installed Level with No Rotation).



Y-branches can be installed upstream between the Header and the outdoor unit, but a Y-branch cannot be installed between a Header and an indoor unit. Headers must be installed in a horizontal and level position with the distribution ports of the fitting in the same horizontal plane as the straight-through branch as shown in Figure 42.

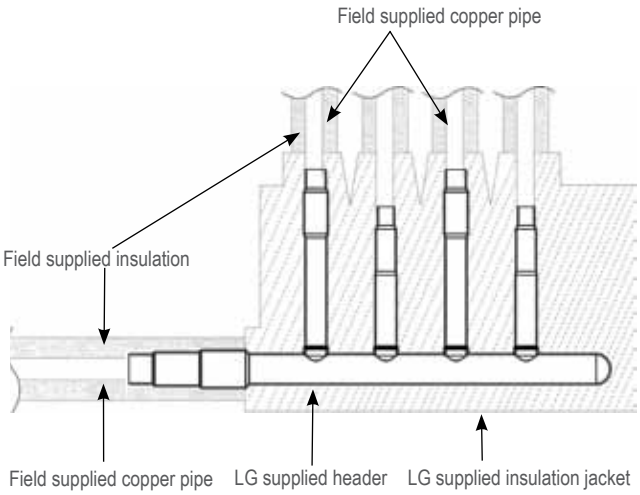
When connecting indoor units to a Header, always connect the unit with the largest nominal capacity to the port closest to the outdoor unit. Then install the next largest indoor unit to the next port, working down to the smallest indoor unit. Do not skip ports. See Figure 42.

All indoor units must be mounted at an elevation below the Header fitting. All indoor units connected to a single Header fitting should be located with an elevation difference between indoor units that does not exceed 49 feet. If indoor units are located at an elevation the same as or above the Header fitting, do not use a Header. Instead, install a Y-branch fitting between the outdoor unit and the Header fitting, and connect the elevated indoor unit to the Y-branch.

Header Insulation

Each Header kit comes with clam-shell type peel and stick insulation jackets molded to fit the Header fittings—one for the liquid line and one for the vapor line. See Figure 43.

Figure 43: Header Insulation and Pipe Detail.

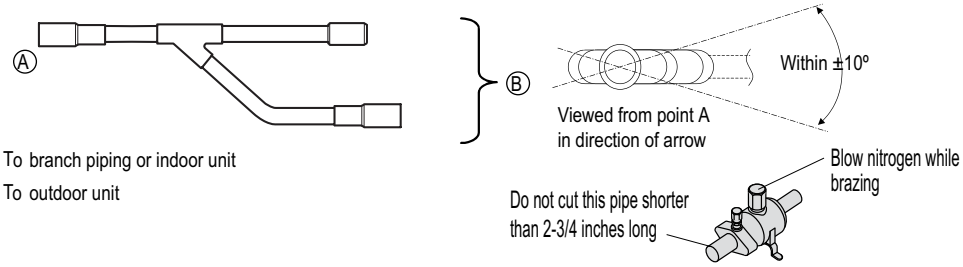


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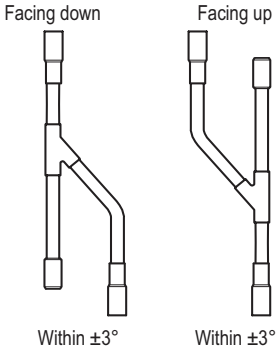
REFRIGERANT PIPING DESIGN

Multi-Frame Connectors (Y-branches) for ARUN Series Heat Pump Systems

Install the branch pipe between the outdoor units so that the outlet pipe is parallel with the surface.

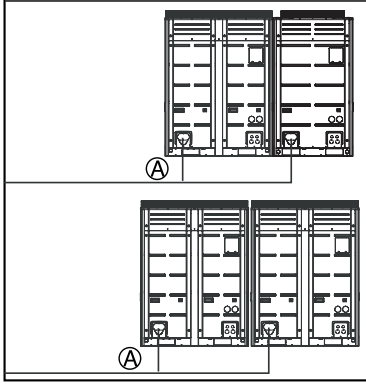
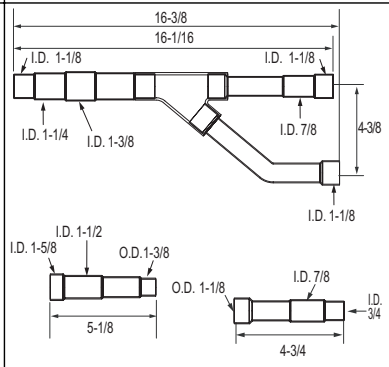
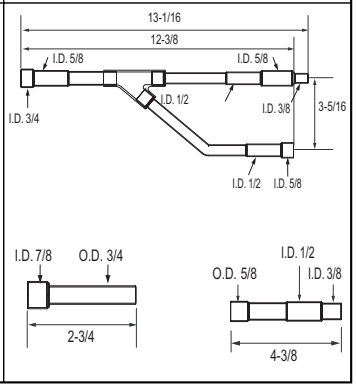


Ⓐ To branch piping or indoor unit
Ⓑ To outdoor unit



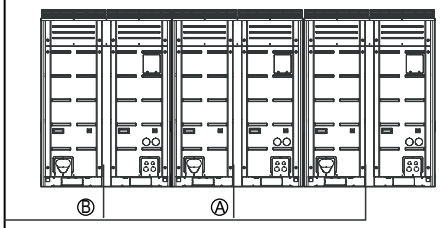
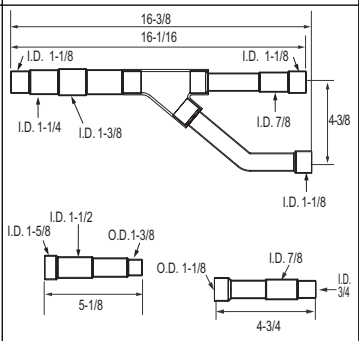
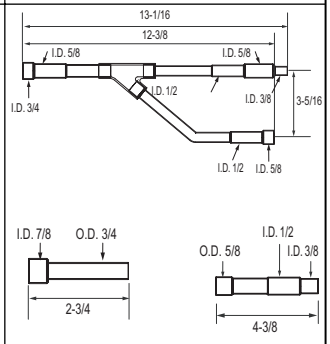
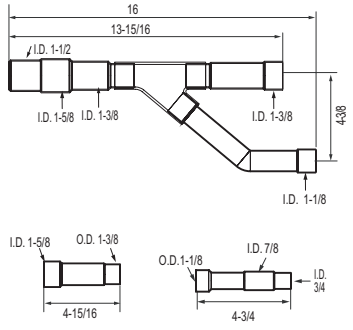
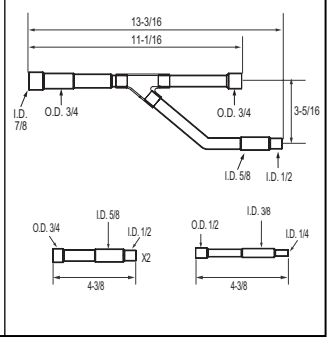
For Dual-Frame Heat Pump Systems

Unit: inch

Combination	Multi-frame Connector	Vapor pipe	Liquid pipe
	Ⓐ ARCNN21		

For Triple-Frame Heat Pump Systems

Unit: inch

Combination specification	Multi-frame Connector	Vapor pipe	Liquid pipe
	Ⓐ ARCNN21		
	Ⓑ ARCNN31		

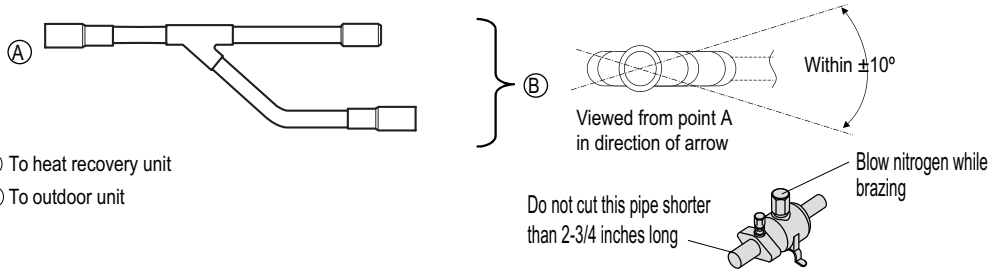
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REFRIGERANT PIPING DESIGN

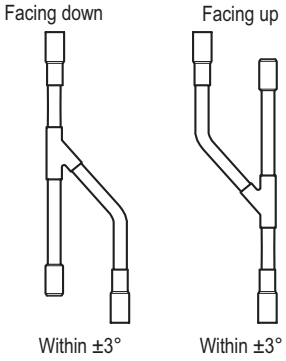
MULTI V III

Multi-Frame Connectors (Y-branches) for ARUB Series Heat Recovery Units

Install the branch pipe between the outdoor units so that the outlet pipe is parallel with the surface.

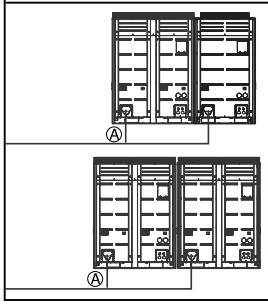
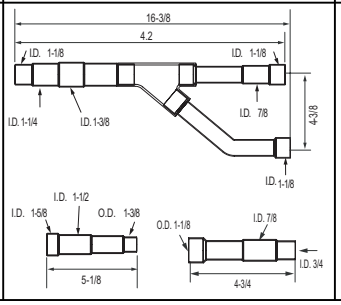
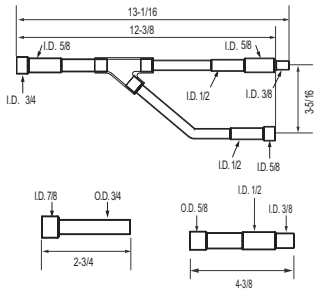
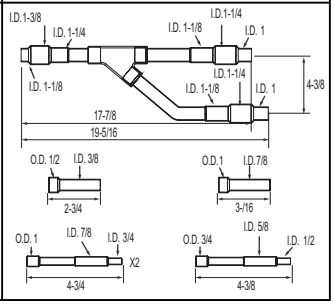


Ⓐ To heat recovery unit
Ⓑ To outdoor unit



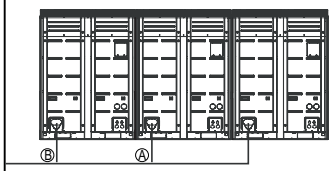
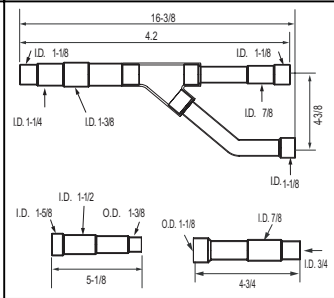
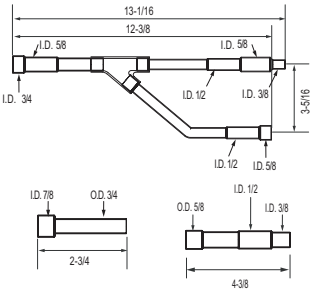
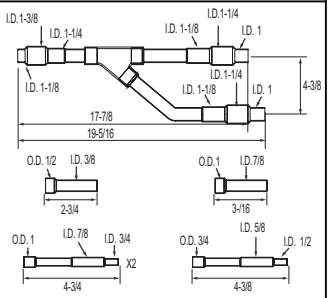
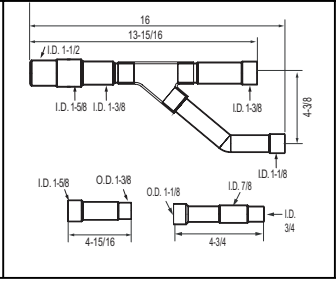
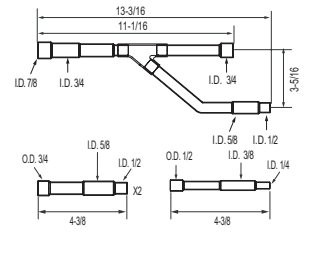
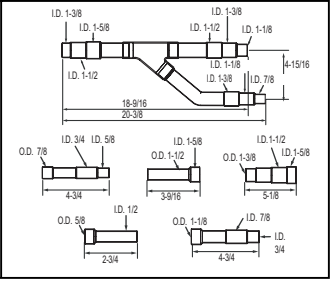
For Dual-Frame Heat Recovery Systems

Unit: inch

Combination specification	Multi-frame Connector	Low-pressure Vapor Pipe	Liquid Pipe	High-pressure Vapor Pipe
	Ⓐ ARCNB21			

For Triple-Frame Heat Recovery Systems

Unit: inch

Combination specification	Multi-frame Connector	Low-pressure Vapor Pipe	Liquid Pipe	High-pressure Vapor Pipe
	Ⓐ ARCNB21			
	Ⓑ ARCNB31			

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REFRIGERANT CHARGE

⚠ Note:
Consider refrigerant safety in all designs. Refer to "ASHRAE Standards Summary" on page 266 for information on how to meet the requirements of ASHRAE Standards 15 and 34.

LG Multi V III outdoor units ship from the factory with a charge of R410A refrigerant. This charge serves as the base charge and will not be sufficient for the system to operate. A trim charge will need to be added after the system is installed that is based on system design. LATS Multi V piping design software will calculate the size of the refrigerant piping and calculate the refrigerant charge; this added trim refrigerant charge is shown on the LATS Multi V output.

The example LATS Multi V design software report below shows both the base charge and the calculated trim charge (Tables 50-55). The information used in the tables below are obtained from a LATS-generated report.

Project Name: Multi V III Heat Recovery System Test Update System No: 1/1

Table 50: Design Conditions.

Summer					Winter				
Indoor			Outdoor		Indoor			Outdoor	
DB (°F)	WB (°F)	RH (%)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	RH (%)	DB (°F)	WB (°F)
80.6	67.1	50	93.9	73.9	68.0	56.8	50	17.1	16.2

Table 51: Outdoor Unit Specifications.

Model Name	Max. Indoor Unit Connectivity	Max. Total Over Load (kBtu/h/%)	Indoor Unit to Outdoor Unit Ratio	Product Charge (lbs.)	Additional Ref. Amount (lbs.)	Rated / Corrected Capacity (kBtu/h)		Rated / Corrected Power Input (kW)	
						Cooling	Heating	Cooling	Heating
ARUB121DT3	20	156.0 (130%)	1.26:1	20.72	18.26	120.0 / 126.0	135.0 / 127.8	8.5 / 9.2	8.7 / 10.6

Table 52: Piping Specifications.

Index (from LATS selection)	Piping Dia. (Inches) Liquid : Vapor	Length (Feet)[1]
P28	1/2 : 3/4 : 1+1/8	20.0
P22	3/8 : 3/4 : 7/8	15.0
P0	1/4 : 1/2	130.0
P1	3/8 : 5/8	50.0
P27	3/8 : 5/8 : 3/4	35.0
P21	3/8 : 1/2 : 5/8	16.0

[1]It is imperative to know the "as-built" physical length of each segment of liquid line, to calculate the total refrigerant charge required. An accurate "as built" field-verified piping diagram is required to verify within LATS that piping is within limits, proper pipe sizing, and refrigerant charge.

Table 53: Branches / Headers / Common Pipes / Heat Recovery Units.

Model Name	Quantity
ARBLB03321	1
PRHR041A	1
PRHR031A	1
PRHR021A	1

Table 54: Accessories.

Index	Model Name	Quantity	Description
IDU	PT-UMC	1	Std. Grille - Four-way Cassette (TN, TM, TP)

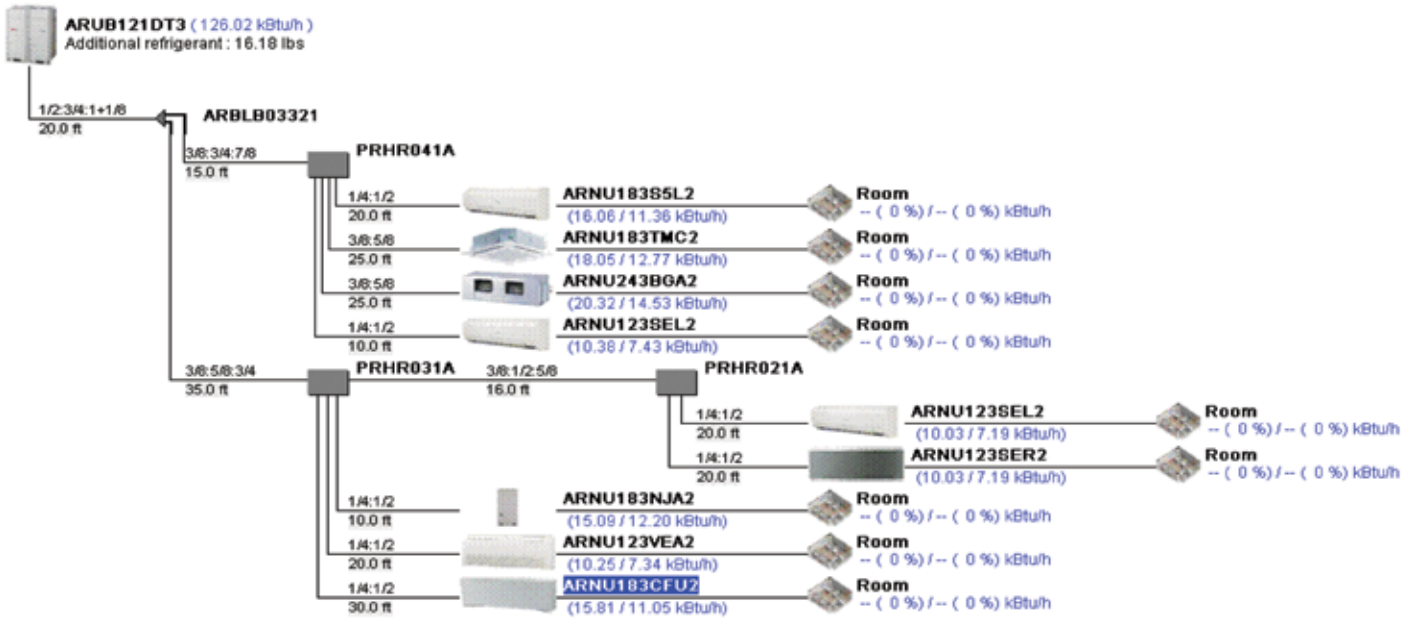
Table 55: Indoor Units.

Model Name	Quantity	Description
ARNU183S5L2	1	Wall Mounted (18 MBh)
ARNU183TMC2	1	Ceiling Cassette - Four-Way (18 MBh)
ARNU243BGA2	1	Ceiling-Concealed Ducted - High Static (24 MBh)
ARNU123SEL2	2	Wall Mounted (12 MBh)
ARNU123SER2	1	Art Cool Mirror (12 MBh)
ARNU183NJA2	1	Vertical / Horizontal Air Handling Unit (18 MBh)
ARNU123VEA2	1	Ceiling Convertible (12 MBh)
ARNU183CFU2	1	Floor Standing - Without Case (18 MBh)
Total	9	-

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Figure 44: LATS Tree Diagram for Multi V III Heat Recovery System Test Update System No: 1/1 Example.



Determining the Total System Charge (Refer to Table 56)

1. Using the LATS Tree diagram, document the linear feet of straight liquid piping and the quantity and type of each fitting by pipe diameter into System Refrigerant Charge Calculator (page 223).

2. Calculate the total linear feet of liquid line piping in the system. It is imperative to know the “as-built” physical length of each segment of liquid line to calculate the total refrigerant charge required. An accurate “as built” field-verified piping diagram is required to verify within LATS that piping is within limits, proper pipe sizing, and refrigerant charge. Record the values on lines 1–7.

3. Count the number of indoor units. Group them by model type and nominal capacity as indicated in the description field on lines 8–33. Record the quantity of units in each group, multiply each by their specific correction factor, and add the sum in the Total (lbs.) column.

4. Count the number of heat recovery units, record the quantity, multiply by the specific correction factor, and record the sum in the Total (lbs.) column on line 34.

5. Sum the total values on lines 1-34 and place in the field labeled "Additional Refrigerant Charge Required" on line 35.

6. Record the quantity of each outdoor unit frame, multiple total of each by their specific correction factor on lines 36a-d, and enter the total on line 37 (Total Factory Refrigerant Charge).

7. Add the Additional Refrigerant Charge Required to the Total Factory Refrigerant Charge. This is the Total System Charge. Record on line 38.

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REFRIGERANT CHARGE

Table 56: System Refrigerant Charge Calculator (lbs.).

System Tag or ID_____	Job Name_____ Project Manager_____ Date_____

Line #	Description	Chassis I.D.	Size	Quantity	CF (Ref.)[1]	Total (lbs.)
1	Linear feet of 1/4" liquid line tubing[2]	—	—	**130 feet**	0.015	**1.95**
2	Linear feet of 3/8" liquid line tubing[2]	—	—	**116 feet**	0.041	**4.76**
3	Linear feet of 1/2" liquid line tubing[2]	—	—	**20 feet**	0.079	**1.58**
4	Linear feet of 5/8" liquid line tubing[2]	—	—		0.116	
5	Linear feet of 3/4" liquid line tubing[2]	—	—		0.179	
6	Linear feet of 7/8" liquid line tubing[2]	—	—		0.238	
7	Linear feet of 1" liquid line tubing[2]	—	—		0.323	
8	Wall Mounted + Art Cool Mirror	SE	7k to 15k	**3 units**	0.53	**1.59**
9	Wall Mounted + Art Cool Mirror	S8, S5	18k to 24k	**1 unit**	0.62	**0.62**
10	1-Way Cassette	TJ	7k to 12k		0.44	
11	2-Way Cassette	TL	18k to 24k		0.35	
12	4-Way 2' x 2' Cassette	TR	5k to 7k		0.40	
13	4-Way 2' x 2' Cassette	TR	9k to 12k		0.55	
14	4-Way 2' x 2' Cassette	TQ	15k to 18k		0.71	
15	4-Way 3' x 3' Cassette	TN	9k to 15k		1.06	
16	4-Way 3' x 3' Cassette	TM	18k to 24k	**1 unit**	1.41	**1.41**
17	4-Way 3' x 3' Cassette	TP	24k to 28k		1.06	
18	4-Way 3' x 3' Cassette	TN	36k		1.41	
19	4-Way 3' x 3' Cassette	TM	42k to 48k		1.41	
20	High Static Ducted	BH	7k to 24k		0.57	
21	High Static Ducted	BG	15k to 42k	**1 unit**	0.97	**0.97**
22	High Static Ducted	BR	48k, 54k		1.37	
23	High Static Ducted	B8	76k to 95k		2.20	
24	Low Static Ducted, Low Static Ducted Bottom Return	B1, B3	7k to 15k		0.37	
25	Low Static Ducted, Low Static Ducted Bottom Return	B2, B4	18k to 24k		0.82	
26	Vertical / Horizontal Air Handling Unit	NJ	12k to 24k	**1 unit**	1.04	**1.04**
27	Vertical / Horizontal Air Handling Unit	NJ	30k		1.04	
28	Vertical / Horizontal Air Handling Unit	NJ	36k		1.57	
29	Vertical / Horizontal Air Handling Unit	NK	42k to 54k		2.00	
30	Ceiling Suspended	VJ	18k to 24k		0.77	
31	Convertible Surface Mount—Ceiling/Wall	VE	9k to 12k	**1 unit**	0.22	**0.22**
32	Floor Standing	CE (U)	7k to 15k		0.37	
33	Floor Standing	CF (U)	18k to 24k	**1 unit**	0.82	**0.82**
34	PRHR021A, PRHR031A, PRHR041A	—	—	**3 units**	1.1	**3.3**
35	**Additional Refrigerant Charge Required**					**18.26**
36a-d	Outdoor Unit Factory Refrigerant Charge (To obtain factory refrigerant charge for each frame, see page 224.)	36a ARU*072**3	72k		12.1	
		36b ARU*096**3	96k		20.7	
		36c ARU*121**3	121k	**1 unit**	20.7	**20.72**
		36d ARU*144**3	144k		20.7	
37	**Total Factory Refrigerant Charge (sum of refrig. charge for all Outdoor Units in the system)**					**20.72**
38	**Total System Charge: Sum of Additional Refrigerant Charge Required and Total Factory Refrigerant Charge**					**38.98**

[1]CF (Ref.) = Correction Factor for Refrigerant Charge.

[2]For refrigerant charge purposes, consider only the liquid line; ignore the vapor line(s).

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REFRIGERANT CHARGE

Total Heat Pump Outdoor Unit (208-230V / 460V) Refrigerant Charge

Nominal Tons	Combination Model Numbers	Individual Component Model Numbers			Refrigerant Charge			
					Frame 1	Frame 2	Frame 3	Total
6.0	ARUN072	—	—	—	12.1	—	—	12.1
8.0	ARUN096	—	—	—	20.7	—	—	20.7
10.0	ARUN121	—	—	—	20.7	—	—	20.7
12.0	ARUN144	—	—	—	20.7	—	—	20.7
14.0	ARUN168	ARUN072	ARUN096	—	12.1	20.7	—	32.8
16.0	ARUN192	ARUN072	ARUN121	—	12.1	20.7	—	32.8
18.0	ARUN216	ARUN072	ARUN144	—	12.1	20.7	—	32.8
20.0	ARUN240	ARUN096	ARUN144	—	20.7	20.7	—	41.4
22.0	ARUN264	ARUN121	ARUN144	—	20.7	20.7	—	41.4
24.0	ARUN288	ARUN144	ARUN144	—	20.7	20.7	—	41.4
26.0	ARUN312	ARUN072	ARUN096	ARUN144	12.1	20.7	20.7	53.5
28.0	ARUN336	ARUN072	ARUN121	ARUN144	12.1	20.7	20.7	53.5
30.0	ARUN360	ARUN072	ARUN144	ARUN144	12.1	20.7	20.7	53.5
32.0	ARUN384	ARUN096	ARUN144	ARUN144	20.7	20.7	20.7	62.1
34.0	ARUN408	ARUN121	ARUN144	ARUN144	20.7	20.7	20.7	62.1
36.0	ARUN432	ARUN144	ARUN144	ARUN144	20.7	20.7	20.7	62.1

Total Heat Recovery Outdoor Unit (208-230V / 460V) Refrigerant Charge

Nominal Tons	Combination Model Numbers	Individual Component Model Numbers			Refrigerant Charge			
					Frame 1	Frame 2	Frame 3	Total
6.0	ARUB072	—	—	—	12.1	—	—	12.1
8.0	ARUB096	—	—	—	20.7	—	—	20.7
10.0	ARUB121	—	—	—	20.7	—	—	20.7
12.0	ARUB144	—	—	—	20.7	—	—	20.7
14.0	ARUB168	ARUB072	ARUB096	—	12.1	20.7	—	32.8
16.0	ARUB192	ARUB072	ARUB121	—	12.1	20.7	—	32.8
18.0	ARUB216	ARUB072	ARUB144	—	12.1	20.7	—	32.8
20.0	ARUB240	ARUB096	ARUB144	—	20.7	20.7	—	41.4
22.0	ARUB264	ARUB121	ARUB144	—	20.7	20.7	—	41.4
24.0	ARUB288	ARUB144	ARUB144	—	20.7	20.7	—	41.4
26.0	ARUB312	ARUB072	ARUB096	ARUB144	12.1	20.7	20.7	53.5
28.0	ARUB336	ARUB072	ARUB121	ARUB144	12.1	20.7	20.7	53.5
30.0	ARUB360	ARUB072	ARUB144	ARUB144	12.1	20.7	20.7	53.5
32.0	ARUB384	ARUB096	ARUB144	ARUB144	20.7	20.7	20.7	62.1
34.0	ARUB408	ARUB121	ARUB144	ARUB144	20.7	20.7	20.7	62.1
36.0	ARUB432	ARUB144	ARUB144	ARUB144	20.7	20.7	20.7	62.1

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INSTALLATION & LAYOUT BEST PRACTICES

Selecting Field-Supplied Copper Tubing

Copper is the only approved refrigerant pipe material for use with LG Multi V commercial air conditioning products, and LG recommends hard-drawn rigid type "K" or "L", or annealed-tempered, copper pipe.

- Drawn temper (rigid) ACR copper tubing is available in sizes 3/8 through 2-1/8 inches (ASTM B 280, clean, dry, and capped).
- Annealed temper (soft) ACR copper tubing is available in sizes 1/4 through 2-1/8 inches (ASTM B 280, clean, dry, and capped).

Tube wall thickness should meet local code requirements and be approved for an operating pressure of 551 psi. If local code does not specify wall thickness, LG suggests using tube thickness per table below. When bending tubing, use the largest radii possible to reduce the equivalent length of installed pipe; also, bending radii greater than ten (10) pipe diameters can minimize pressure drop. Be sure no traps or sags are present when rolling out soft copper tubing coils.

Table 57: ACR Copper Tubing Material.

Type	Seamless Phosphorous Deoxidized
Class	UNS C12200 DHP
Straight Lengths	H58 Temper
Coils	O60 Temper

Table 58: Piping Tube Thicknesses.

OD (in)	1/4	3/8	1/2	5/8	3/4	7/8	1-1/8	1-3/8	1-5/8
Material	Rigid Type "K" or "L" - Soft ACR Acceptable			Rigid Type "K" or "L" Only					
Min. Bend Radius (in)	.563	.9375	1.5	2.25	3.0	3.0	3.5	4.0	4.5
Min. Wall Thickness (in)	.03	.03	.03	.03	.03	.03	.03	.04	.05

Copper Expansion and Contraction

Under normal operating conditions, the vapor pipe temperature of a Multi V III system can vary as much as 280°F. With this large variance in pipe temperature, the designer must consider pipe expansion and contraction to avoid pipe and fitting fatigue failures.

Refrigerant pipe along with the insulation jacket form a cohesive unit that expands and contracts together. During system operation, thermal heat transfer occurs between the pipe and the surrounding insulation.

If the pipe is mounted in free air space, no natural restriction to movement is present if mounting clamps are properly spaced and installed. When the refrigerant pipe is mounted underground in a utility duct stacked among other pipes, natural restriction to linear movement is present. In extreme cases, the restrictive force of surface friction between insulating jackets could become so great that natural expansion ceases and the pipe is "fixed" in place. In this situation, opposing force caused by change in refrigerant fluid/vapor temperature can lead to pipe/fitting stress failure.

The refrigerant pipe support system must be engineered to allow free expansion to occur. When a segment of pipe is mounted between two fixed points, provisions must be provided to allow pipe expansion to naturally occur. The most common method is the inclusion of expansion Loop or U-bends. See Figure 45 on page 225. Each segment of pipe has a natural fixed point where no movement occurs. This fixed point is located at the center point of the segment assuming the entire pipe is insulated in a similar fashion. The natural fixed point of the pipe segment is typically where the expansion Loop or U-bend should be. Linear pipe expansion can be calculated using the following formula:

1. From Table 59, find the row corresponding with the actual length of the straight pipe segment.

$$LE = C \times L \times (T_r - T_a) \times 12$$

LE	=	Anticipated linear tubing expansion (in.)
C	=	Constant (For copper = 9.2 x 10^{-6} in./in.°F)
L	=	Length of pipe (ft.)
T_R	=	Refrigerant pipe temperature (°F)
T_a	=	Ambient air temperature (°F)
12	=	Inches to feet conversion (12 in./ft.)

2. Estimate the minimum and maximum temperature of the pipe. In the column showing the minimum pipe temperature, look up the anticipated expansion distance. Do the same for the maximum pipe temperature.
3. Calculate the difference in the two expansion distance values. The result will be the anticipated change in pipe length.

Example:

A Multi V III heat pump system is installed and the design shows that there is a 260 feet straight segment of tubing between a Y-branch and an indoor unit. In heating, this pipe transports hot gas vapor to the indoor units at 120°F. In cooling, the same tube is a suction line returning refrigerant vapor to the outdoor unit at 40°F. Look up the copper tubing expansion at each temperature and calculate the difference.

Vapor Line

Transporting Hot Vapor: 260 ft. pipe at 120°F = 3.64 in.
Transporting Suction Vapor: 260 ft. pipe at 40°F = 1.04 in.
Anticipated Change in Length: 3.64 in. – 1.04 in. = 2.60 in.

Liquid Line

The liquid temperature remains the same temperature; only the direction of flow will reverse. Therefore, no significant change in length of the liquid line is anticipated.

When creating an expansion joint, the joint height should be a minimum of two times the joint width. Although different types of expansion arrangements are available, the data for correctly sizing an Expansion Loop is provided in Table 60. Use soft copper with long radius bends on longer runs or long radius elbows for shorter pipe segments. Using the anticipated linear expansion (LE) distance calculated, look up the Expansion Loop or U-bend minimum design dimensions. If other types of expansion joints are chosen, design per ASTM B-88 Standards.

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INSTALLATION & LAYOUT BEST PRACTICES

MULTI V III

Selecting Field-Supplied Copper Tubing

Table 59: Linear Thermal Expansion of Copper Tubing in Inches.

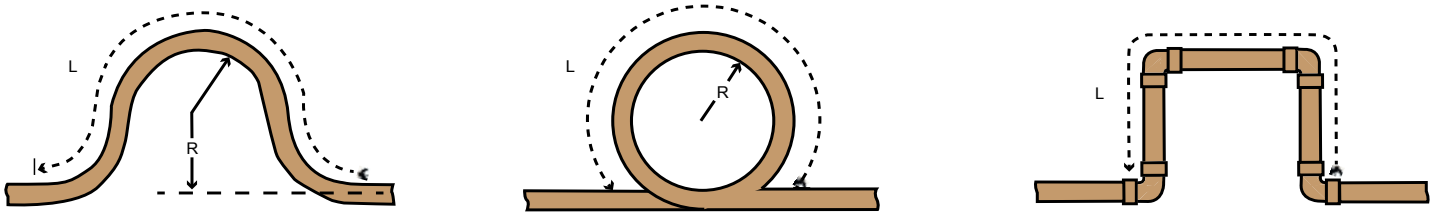
Pipe Length[1]	Fluid Temperature °F																			
	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°
10	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.11	0.12	0.13	0.14	0.15	0.15
20	0.08	0.08	0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.26	0.28	0.29	0.30
30	0.12	0.12	0.15	0.18	0.20	0.21	0.23	0.24	0.26	0.27	0.29	0.30	0.32	0.33	0.32	0.35	0.39	0.42	0.44	0.45
40	0.16	0.16	0.20	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.43	0.46	0.52	0.56	0.58	0.60
50	0.20	0.20	0.25	0.30	0.33	0.35	0.38	0.40	0.43	0.45	0.48	0.50	0.53	0.55	0.54	0.58	0.65	0.70	0.73	0.75
60	0.24	0.24	0.30	0.36	0.39	0.42	0.45	0.48	0.51	0.54	0.57	0.60	0.63	0.66	0.65	0.69	0.78	0.84	0.87	0.90
70	0.28	0.28	0.35	0.42	0.46	0.49	0.53	0.56	0.60	0.63	0.67	0.70	0.74	0.77	0.76	0.81	0.91	0.98	1.02	1.05
80	0.32	0.32	0.40	0.48	0.52	0.56	0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.86	0.92	1.04	1.12	1.16	1.20
90	0.36	0.36	0.45	0.54	0.59	0.63	0.68	0.72	0.77	0.81	0.86	0.90	0.95	0.99	0.97	1.04	1.17	1.26	1.31	1.35
100	0.40	0.40	0.50	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.08	1.15	1.30	1.40	1.45	1.50
120	0.48	0.48	0.60	0.72	0.78	0.84	0.90	0.96	1.02	1.08	1.14	1.20	1.26	1.32	1.30	1.38	1.56	1.68	1.74	1.80
140	0.56	0.56	0.70	0.84	0.91	0.98	1.05	1.12	1.19	1.26	1.33	1.40	1.47	1.54	1.51	1.61	1.82	1.96	2.03	2.10
160	0.64	0.64	0.80	0.96	1.04	1.12	1.20	1.28	1.36	1.44	1.52	1.60	1.68	1.76	1.73	1.84	2.08	2.24	2.32	2.40
180	0.72	0.72	0.90	1.08	1.17	1.26	1.35	1.44	1.53	1.62	1.71	1.80	1.89	1.98	1.94	2.07	2.34	2.52	2.61	2.70
200	0.80	0.80	1.00	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.16	2.30	2.60	2.80	2.90	3.00
220	0.88	0.88	1.10	1.32	1.43	1.54	1.65	1.76	1.87	1.98	2.09	2.20	2.31	2.42	2.38	2.53	2.86	3.08	3.19	3.30
240	0.96	0.96	1.20	1.44	1.56	1.68	1.80	1.92	2.04	2.16	2.28	2.40	2.52	2.64	2.59	2.76	3.12	3.36	3.48	3.60
260	1.04	1.04	1.30	1.56	1.69	1.82	1.95	2.08	2.21	2.34	2.47	2.60	2.73	2.86	2.81	2.99	3.38	3.64	3.77	3.90
280	1.12	1.12	1.40	1.68	1.82	1.96	2.10	2.24	2.38	2.52	2.66	2.80	2.94	3.08	3.02	3.22	3.64	3.92	4.06	4.20
300	1.20	1.20	1.50	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00	3.15	3.30	3.24	3.45	3.90	4.20	4.35	4.50
320	1.28	1.28	1.60	1.92	2.08	2.24	2.40	2.56	2.72	2.88	3.04	3.20	3.36	3.52	3.46	3.68	4.16	4.48	4.64	4.80
340	1.36	1.36	1.70	2.04	2.21	2.38	2.55	2.72	2.89	3.06	3.23	3.40	3.57	3.74	3.67	3.91	4.42	4.76	4.93	5.10
360	1.44	1.44	1.80	2.16	2.34	2.52	2.70	2.88	3.06	3.24	3.42	3.60	3.78	3.96	3.89	4.14	4.68	5.04	5.22	5.40
380	1.52	1.52	1.90	2.28	2.47	2.66	2.85	3.04	3.23	3.42	3.61	3.80	3.99	4.18	4.10	4.37	4.94	5.32	5.51	5.70
400	1.60	1.60	2.00	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.32	4.60	5.20	5.60	5.80	6.00
420	1.68	1.68	2.10	2.52	2.73	2.94	3.15	3.36	3.57	3.78	3.99	4.20	4.41	4.62	4.54	4.83	5.46	5.88	6.09	6.30
440	1.76	1.76	2.20	2.64	2.86	3.08	3.30	3.52	3.74	3.96	4.18	4.40	4.62	4.84	4.75	5.06	5.72	6.16	6.38	6.60
460	1.84	1.84	2.30	2.76	2.99	3.22	3.45	3.68	3.91	4.14	4.37	4.60	4.83	5.06	4.97	5.29	5.98	6.44	6.67	6.90
480	1.92	1.92	2.40	2.88	3.12	3.36	3.60	3.84	4.08	4.32	4.56	4.80	5.04	5.28	5.18	5.52	6.24	6.72	6.96	7.20
500	2.00	2.00	2.50	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.40	5.75	6.50	7.00	7.25	7.50

[1]Pipe length baseline temperature = 0°F. "Expansion of Carbon, Copper and Stainless Steel Pipe," *The Engineers' Toolbox*, www.engineeringtoolbox.com.

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Figure 45: Coiled Expansion Loops and Offsets.



Large Tubing U-bend (>3/4 in.) Loop Small Tubing U-bend (<3/4 in.)

Table 60: Radii of Coiled Expansion Loops and Developed Lengths of Expansion Offsets.

Anticipated Linear Expansion (LE) (inches)		Nominal Tube Size (OD) inches						
		1/4	3/8	1/2	3/4	1	1-1/4	1-1/2
1/2	R[1]	6	7	8	9	11	12	13
	L[2]	38	44	50	59	67	74	80
1	R[1]	9	10	11	13	15	17	18
	L[2]	54	63	70	83	94	104	113
1-1/2	R[1]	11	12	14	16	18	20	22
	L[2]	66	77	86	101	115	127	138
2	R[1]	12	14	16	19	21	23	25
	L[2]	77	89	99	117	133	147	160
2-1/2	R[1]	14	16	18	21	24	26	29
	L[2]	86	99	111	131	149	165	179
3	R[1]	15	17	19	23	26	29	31
	L[2]	94	109	122	143	163	180	196
3-1/2	R[1]	16	19	21	25	28	31	34
	L[2]	102	117	131	155	176	195	212
4	R[1]	17	20	22	26	30	33	36
	L[2]	109	126	140	166	188	208	226

[1]R = Centerline Length of Pipe.

[2]L = Centerline Minimum Radius (inches).

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INSTALLATION & LAYOUT BEST PRACTICES

MULTI V III

Refrigerant Piping System Layout

Definitions

Main: The piping segment between the outdoor unit and the first Y-branch.

Branch: A segment of pipe between two Y-branches.

Run-out: The segment of pipe connecting an indoor unit to a Y-branch.

Physical Pipe Length: Actual length of straight segment(s) of pipe.

Equivalent Pipe Length: Actual length of pipe plus equivalent lengths of elbows, Y-branches, and valves.

Layout Procedure

1. Draft a one-line diagram of the proposed piping system connecting outdoor unit to heat recovery and indoor units. Follow the pipe limitations listed on page 201.
2. Calculate the physical length of each pipe segment and note it on the drawing.
3. Calculate the equivalent pipe length of each pipe segment.
4. Input the pipe lengths into the LATS software and perform "Auto Pipe Sizing" check and "System Check". LATS will automatically calculate pipe sizes.

Using Elbows

Field-supplied elbows are allowed as long as they are designed for use with R410A refrigerant. The designer, however, should be cautious with the quantity and size of fittings used, and must account for the additional pressure losses in equivalent pipe length calculation for each branch. The equivalent pipe length of each elbow must be added to each pipe segment in the LATS program. See Table 61 for equivalent lengths.

Table 61: Equivalent Piping Length for Y-branches, Headers, and Other Piping Components.

Component	Size (Inches)													
	1/4	3/8	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2	1-5/8	1-3/4	2-1/8
Elbow (ft.)	0.5	0.6	0.7	0.8	1.2	1.3	1.5	1.6	1.8	2.0	2.1	2.3	2.5	2.8
Y-branch (ft.)[1]	1.6													
Header (ft.)	3.3													
Heat Recovery Unit (ft.) (For ARUB Heat Recovery Units only)	8.2													

[1]Kit for ARUN Heat Pump systems contains two Y-branches: one for liquid and one for vapor; Kit for ARUB Heat Recovery systems contains three Y-branches: one for liquid, one for low-pressure vapor, one for high-pressure vapor.

Field-Provided Isolation Ball Valves

LG recommends installing field-supplied ball valves with Schrader ports at each indoor unit. Full-port isolation ball valves with Schrader ports (positioned between valve and indoor unit) rated for use with R410A refrigerant should be used on both the liquid and vapor lines.

If valves are not installed and a single indoor unit needs to be removed or repaired, the entire system must be shut down and evacuated. If isolation ball valves are installed, and an indoor unit needs to be repaired, the unaffected indoor units can remain operational with readdressing and the proper combination ratio (See "Determine the System Combination Ratio [CR]" on page 183). Reclamation of refrigerant, then, can be restricted to a single indoor unit.

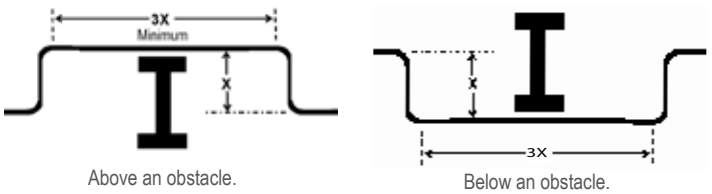
Position valves with a minimum distance of three (3) to six (6) inches of pipe on either side of the valve, and placed between six (6) and twelve (12) inches from the first upstream heat recovery unit, Y-branch, or header. If ball valves are installed away from the first upstream heat recovery control unit, Y-branch, or header and closer to the indoor unit, oil may accumulate where it cannot be returned to the air-source unit and may cause a shortage of oil in the compressor.

Valves shall be easily accessible for service. If necessary, install drywall access doors or removable ceiling panels, and position the valves to face the access door or ceiling panel opening. Mount valves with adequate space between them to allow for placement of adequate pipe insulation around the valves. Recommended best practice is to clearly label and document locations of all service valves, heat recovery control units, Y-branches, and headers. The equivalent pipe length of each ball valve must be added to each pipe segment entered into LATS program. See Table 197 for equivalent lengths of ball valves.

Obstacles

When an obstacle, such as an I-beam or concrete T, is in the path of the planned refrigerant pipe run, it is best practice to route the pipe over the obstacle. If adequate space is not available to route the insulated pipe over the obstacle, then route the pipe under the obstacle. In either case, it is imperative the horizontal section of pipe above or below the obstacle be a minimum of three (3) times greater than the longest vertical rise (or fall) distance.

Figure 46: Installing Piping Above and Below an Obstacle.



Above an obstacle. Below an obstacle.

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In-line Refrigeration Components

Components such as oil traps, solenoid valves, filter-dryers, sight glasses, tee fittings, and other after-market accessories are not permitted on the refrigerant piping system between the outdoor units and the indoor / heat recovery units. Multi V III air-source systems are provided with redundant systems that assure oil is properly returned to the compressor. Sight-glasses and solenoid valves may cause vapor to form in the liquid stream. Over time, dryers may deteriorate and introduce debris into the system. The designer and installer should verify the refrigerant piping system is free of traps, sagging pipes, sight glasses, filter dryers, etc.

No Pipe Size Substitutions

Use only the pipe size selected by the LATS Multi V pipe system design software. Using a different size is prohibited and may result in a system malfunction or failure to work at all.

Pipe Supports

A properly installed pipe system should be adequately supported to avoid pipe sagging. Sagging pipes become oil traps that lead to equipment malfunction.

Pipe supports should never touch the pipe wall; supports shall be installed outside (around) the primary pipe insulation jacket (see Figure 47). Insulate the pipe first because pipe supports shall be installed outside (around) the primary pipe insulation jacket. Clevis hangers should be used with shields between the hangers and insulation. Field provided pipe supports should be designed to meet local codes. If allowed by code, use fiber straps or split-ring hangers suspended from the ceiling on all-thread rods (fiber straps or split ring hangers can be used as long as they do not compress the pipe insulation). Place a second layer of insulation over the pipe insulation jacket to prevent chafing and compression of the primary insulation within the confines of the support pipe clamp.

A properly installed pipe system will have sufficient supports to avoid pipes from sagging during the life of the system. As necessary, place supports closer for segments where potential sagging could occur. Maximum spacing of pipe supports shall meet local codes. If local codes do not specify pipe support spacing, pipe shall be supported:

- Maximum of five feet (5') on center for straight segments of pipe up to 3/4" outside diameter size.
- Maximum of six feet (6') on center for pipe up to one inch (1") outside diameter size.
- Maximum of eight feet (8') on center for pipe up to two inches (2") outside diameter size.

Wherever the pipe changes direction, place a hanger within twelve (12) inches on one side and within twelve to nineteen (12 to 19) inches of the bend on the other side as shown in Figure 48. Support piping at indoor units as shown in Figure 49. Support Y-Branch and Header fittings as shown in Figures 50 and 51.

Figure 47: Pipe Hanger Details.

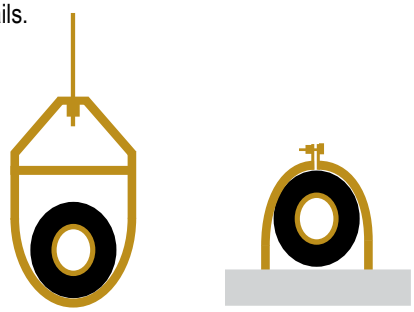


Figure 48: Typical Pipe Support Location—Change in Pipe Direction.

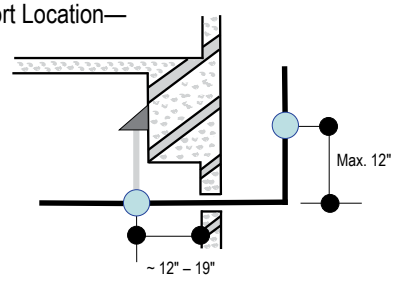


Figure 49: Pipe Support at Indoor Unit.

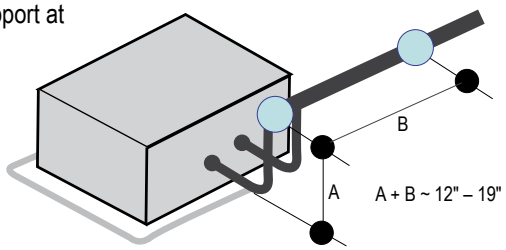


Figure 50: Pipe Support at Y-branch Fitting.

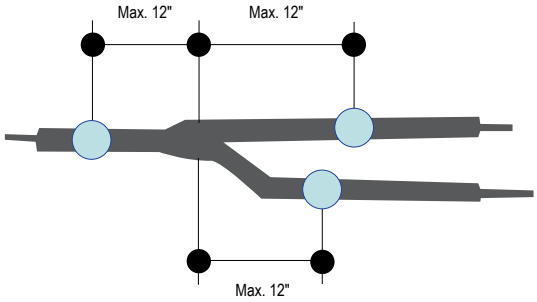
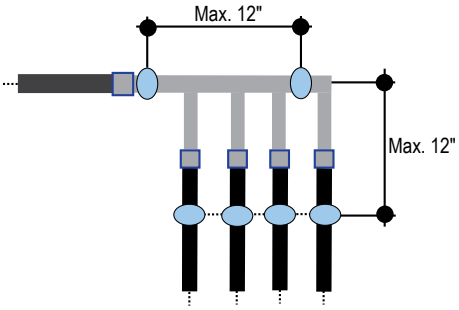


Figure 51: Pipe Support at Header Fitting.



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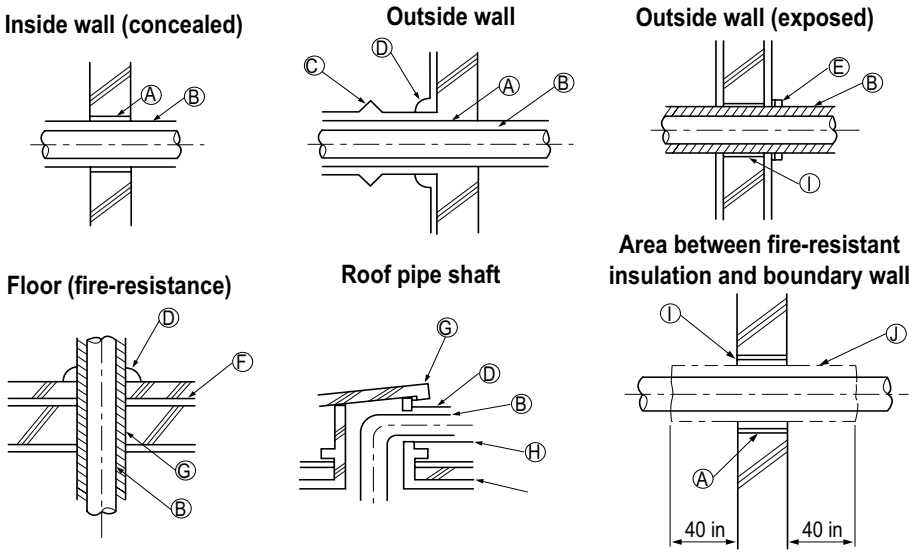
MULTI V III

Refrigerant Piping System Layout

Pipe Sleeves at Penetrations

LG requires that all pipe penetrations through walls, floors, and pipes buried underground be properly insulated and routed through an appropriate wall sleeve of sufficient size to prevent compression of refrigerant pipe insulation and free movement of the pipe within the sleeve. Underground refrigerant pipe shall be routed inside a protective sleeve to prevent insulation deterioration.

Figure 52: Pipe Sleeve Options.



Ⓐ Sleeve
Ⓑ Insulation
Ⓒ Lagging
Ⓓ Caulk
Ⓔ Band
Ⓕ Water-resistant layer
Ⓖ Sleeve with edge
Ⓗ Lagging
Ⓘ Mortar or other fire-resistant caulk
Ⓙ Fire-resistant insulation

When filling an access hole with mortar, cover the area with steel plate so that the insulation will not fall through. For this area, use fire-resistant materials for both the insulation and cover. (Vinyl cover should not be used.)

Note:

Diameter of penetrations shall be determined by pipe diameter plus the thickness of the insulation.

Underground Refrigerant Piping

Refrigerant pipe installed underground should be routed inside a vapor tight protective sleeve to prevent insulation deterioration and water infiltration. Refrigerant pipe installed inside underground casing must be continuous without any joints. Underground refrigerant pipe must be located at a level **below the frost line**.

Table 62: Utility Conduit Sizes.

Liquid Pipe[1]	Vapor Pipe[1]		
	1/2 (2.0[2,5])	5/8 (2-1/8[2,5])	3/4 (2-1/4[2,5])
1/4 (1.0)[3]	4	4	4
3/8 (1-1/8)[3]	4	4	5
1/2 (1-1/2)[4]	5	5	5
5/8 (1-5/8)[4]	5	5	5
3/4 (1-3/4)[4]	5	5	5

[1]OD pipe diameter in inches; Values in parenthesis () indicate OD of pipe with insulation jacket.

[2]Diameter of pipe with insulation. Thickness of pipe insulation is typical. Actual required thickness may vary based on surrounding ambient conditions and should be calculated and specified by the design engineer.

[3]Insulation thickness (value in parenthesis) = 3/8 inch.

[4]Insulation thickness (value in parenthesis) = 1 inch.

[5]Insulation thickness (value in parenthesis) = 3/4 inch.

Figure 53: Typical Arrangement of Refrigerant Pipe and Cable(s) in a Utility Conduit.

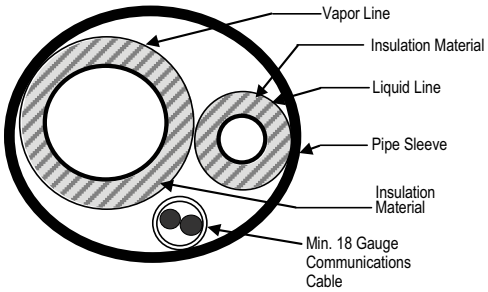


Figure 54: Underground Refrigerant Piping.



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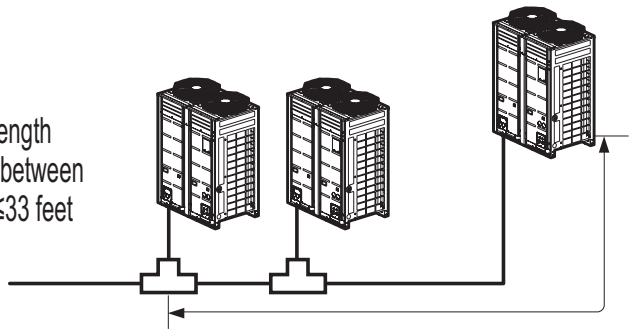
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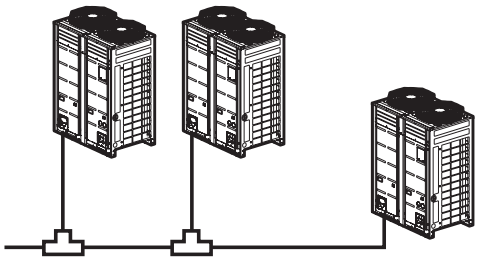
Refrigerant Piping for Separated Outdoor Units

Dual-frame and triple-frame systems should be installed with all outdoor units located next to each other. In conditions when the dual-frame and triple-frame units need to be separated, the following rules should be followed:

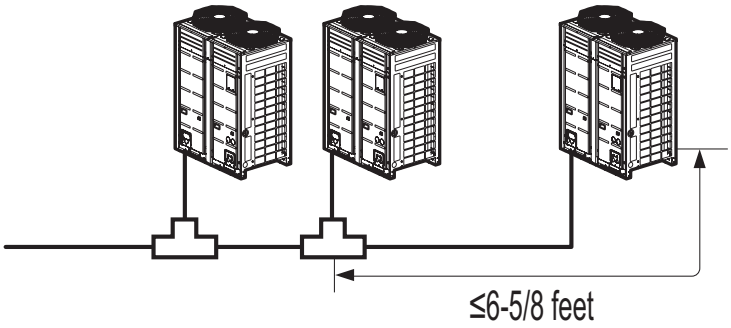
Pipe Connection between Outdoor Units—Standard Length

The maximum pipe length after the first branch between the outdoor units is ≤33 feet



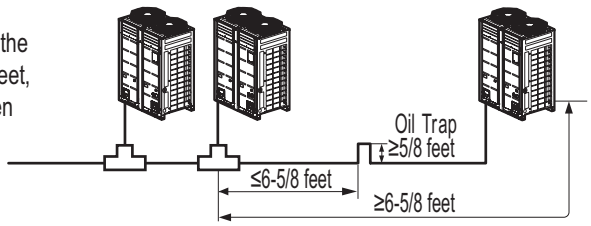


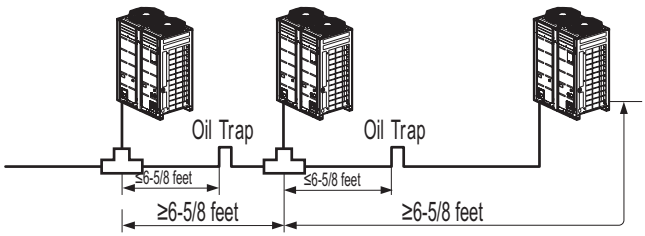
Pipe Connection between Outdoor Units when Length is ≤6-/58 feet



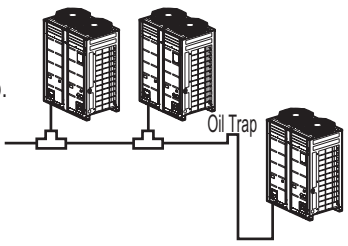
Oil Trap Installation between Outdoor Units when Length is ≥6-/58 feet

- If the distance between the outdoor units is >6-5/8 feet, install an oil trap between the vapor pipes.





- If the outdoor unit is lower than the main pipe, install an oil trap.



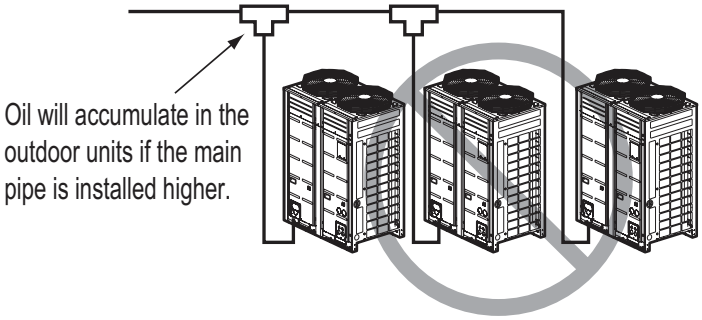
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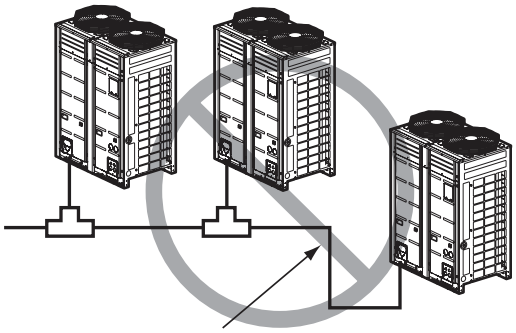
INSTALLATION & LAYOUT BEST PRACTICES

MULTI V III

Refrigerant Piping System Layout

Examples of Improper Installation



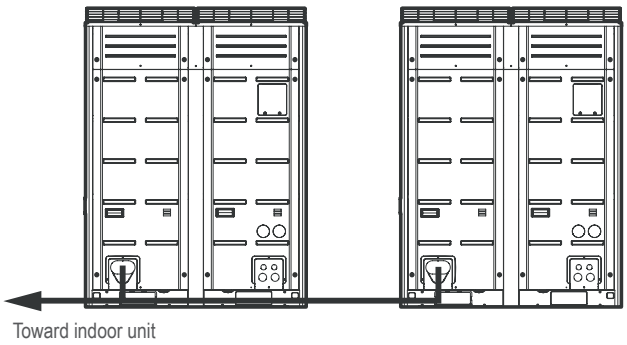


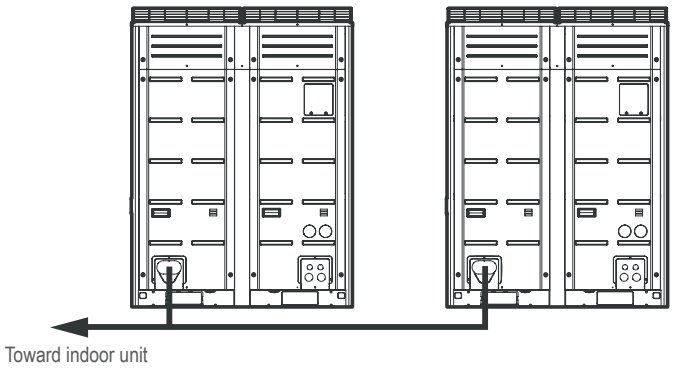
If there are height differences between the outdoor units, oil will accumulate in the unit that is positioned lower.

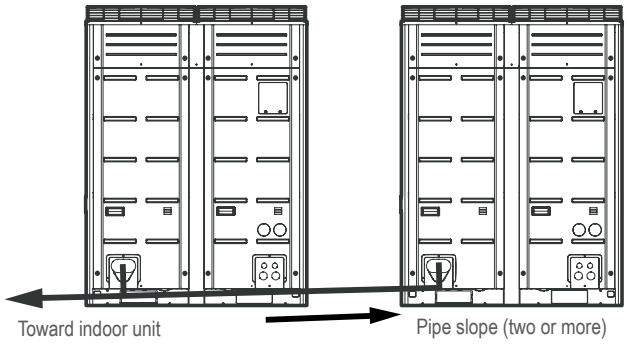
Pipe Slope

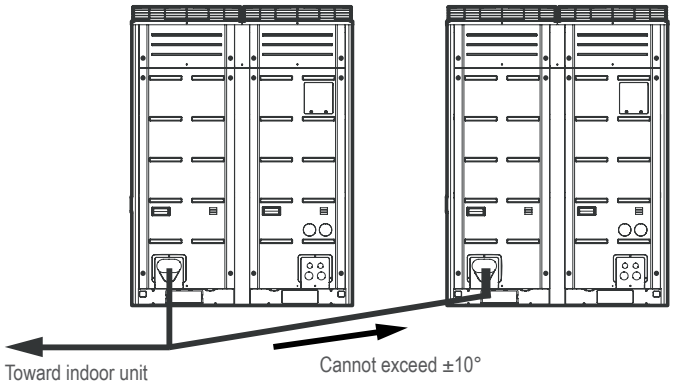
Horizontal pipe slope cannot exceed 10° up or down, otherwise refrigerant will flow back towards the slave outdoor unit and the system may not operate properly.

Figure 55: Allowable Pipe Slopes.









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⚠ *Note:*

Avoid Pipe Damage

- *When routing field-provided piping inside the outdoor unit frame, take care to avoid damage due to vibration.*
- *Correctly route the piping so it does not make contact with the compressor casing, terminal cover, or mounting bolts. Allow room for field installation.*
- *Properly insulate the liquid and vapor lines separately up to the point of connection inside the confines of the unit frame.*
- *Refer to Figure 56 for unit piping routing options, and Tables 63 and 64 for outdoor unit connection types.*

Refrigerant piping can be connected through the access holes on the front or bottom panels of the Multi V III frame. Access holes at the bottom of the unit can be used for left / right or bottom pipe routings.

- Use nitrogen at 2.8 psi flow during welding.
- If nitrogen was not used during welding, oxidized contaminants may build inside the piping and effect valve and condenser operation.

Figure 56: Refrigerant Pipe Options.

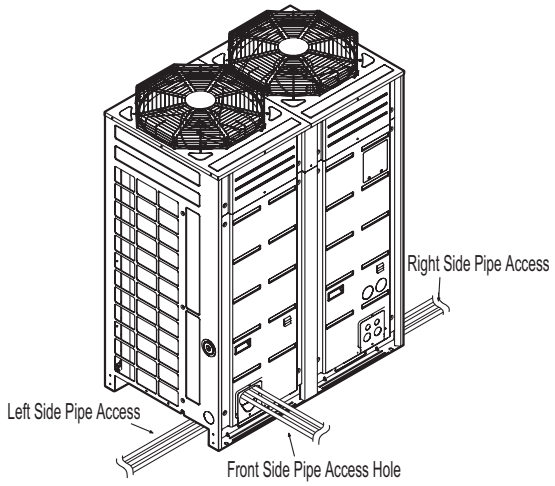


Table 63: Heat Pump Unit Refrigerant Pipe Connections (All Brazed Type).

Model	Liquid Conn. (inches)	Vapor Conn. (inches)
ARUN072BT3 / ARUN072DT3	3/8	3/4
ARUN096BT3 / ARUN096DT3	3/8	7/8
ARUN121BT3 / ARUN121DT3	1/2	1-1/8
ARUN144BT3 / ARUN144DT3	1/2	1-1/8
ARUN168BT3 / ARUN168DT3	5/8	1-1/8
ARUN192BT3 / ARUN192DT3	5/8	1-1/8
ARUN216BT3 / ARUN216DT3	5/8	1-1/8
ARUN240BT3 / ARUN240DT3	5/8	1-3/8
ARUN264BT3 / ARUN264DT3	3/4	1-3/8
ARUN288BT3 / ARUN288DT3	3/4	1-3/8
ARUN312BT3 / ARUN312DT3	3/4	1-3/8
ARUN336BT3 / ARUN336DT3	3/4	1-3/8
ARUN360BT3 / ARUN360DT3	3/4	1-5/8
ARUN384BT3 / ARUN384DT3	3/4	1-5/8
ARUN408BT3 / ARUN408DT3	3/4	1-5/8
ARUN432BT3 / ARUN432DT3	3/4	1-5/8

Table 64: Heat Recovery Unit Refrigerant Pipe Connections (All Brazed Type).

Model	Liquid Conn. (in.)	Low Vapor Conn. (in.)	High Vapor Conn. (in.)
ARUB072BT3 / ARUB072DT3	3/8	3/4	5/8
ARUB096BT3 / ARUB096DT3	3/8	7/8	3/4
ARUB121BT3 / ARUB121DT3	1/2	1-1/8	3/4
ARUB144BT3 / ARUB144DT3	1/2	1-1/8	7/8
ARUB168BT3 / ARUB168DT3	5/8	1-1/8	7/8
ARUB192BT3 / ARUB192DT3	5/8	1-1/8	7/8
ARUB216BT3 / ARUB216DT3	5/8	1-1/8	1-1/8
ARUB240BT3 / ARUB240DT3	5/8	1-3/8	1-1/8
ARUB264BT3 / ARUB264DT3	3/4	1-3/8	1-1/8
ARUB288BT3 / ARUB288DT3	3/4	1-3/8	1-1/8
ARUB312BT3 / ARUB312DT3	3/4	1-3/8	1-1/8
ARUB336BT3 / ARUB336DT3	3/4	1-3/8	1-1/8
ARUB360BT3 / ARUB360DT3	3/4	1-5/8	1-1/8
ARUB384BT3 / ARUB384DT3	3/4	1-5/8	1-3/8
ARUB408BT3 / ARUB408DT3	3/4	1-5/8	1-3/8
ARUB432BT3 / ARUB432DT3	3/4	1-5/8	1-3/8

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ARUN Series Heat Pump Unit Connections

⚠ Note:

The leak-prevention cap attached to the outdoor unit service valves must be removed before pipe installation.

1. Remove the leak-prevention cap.
2. Check if the liquid, vapor, and common pipes are fully locked.
3. Vacuum out any remaining refrigerant or air through the service port.

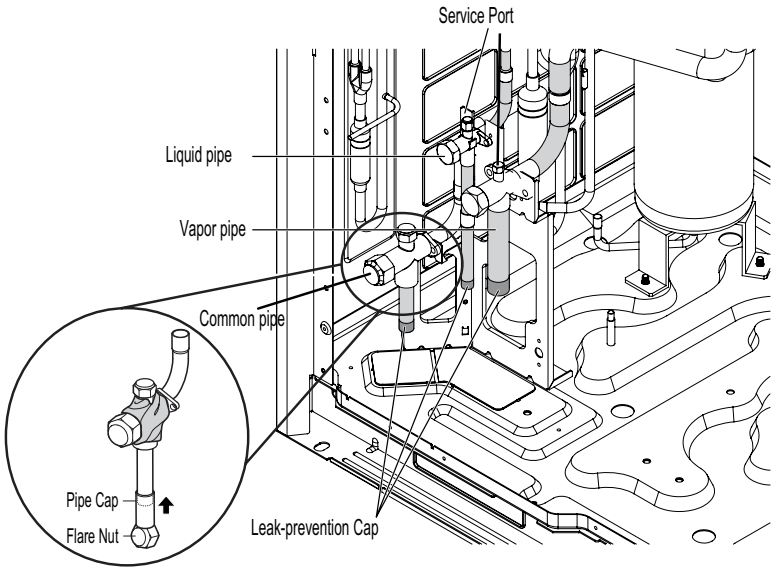
Pipe Connection for a Single-unit System

1. Remove the rubber cap from the common pipe.
2. Wrap the service valve of the common pipe with a wet towel. If the service valve is not protected, the inside of the valve may be damaged during welding.
3. Insert the provided pipe cap into the common pipe.
4. Place the flare nut under the pipe cap as shown in Figure 57 to tighten the pipe cap.
5. Weld the pipe cap.

⚠ Note:

If the pipe cap is not properly installed, the outdoor unit may leak refrigerant and the system will not operate properly.

Figure 57: Heat Pump Outdoor Unit Connections.



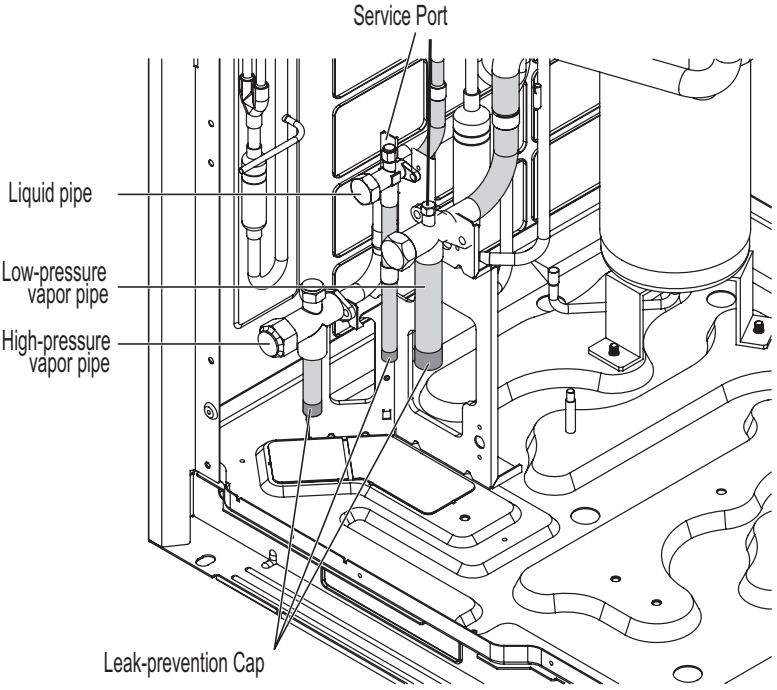
ARUB Series Heat Recovery Unit Connections

⚠ Note:

The leak-prevention cap attached to the outdoor unit service valves must be removed before pipe installation.

1. Remove the leak-prevention cap.
2. Check if the liquid, low pressure vapor, and high pressure vapor pipes are locked.
3. Vacuum out any remaining refrigerant or air through the service port.

Figure 58: Heat Recovery Outdoor Unit Connections.



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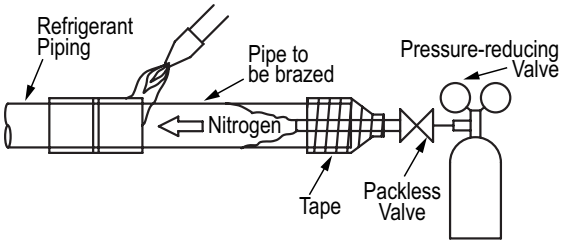
Installation of Refrigerant Piping / Brazing Practices

⚠ *Note:*

It is imperative to keep the piping system free of contaminants and debris such as copper burrs, slag, or carbon dust during installation.

All joints are brazed in the field. Multi V III refrigeration system components contain very small capillary tubes, small orifices, electronic expansion valves, oil separators, and heat exchangers that can easily become blocked. Proper system operation depends on the installer using best practices and utmost care while assembling the piping system.

Figure 59: Refrigerant Pipe Brazing.



- While brazing, use a dry nitrogen purge operating at a minimum pressure of three (3) psig and maintain a steady flow.
- Blow clean all pipe sections with dry nitrogen prior to assembly.
- Use a tubing cutter, do not use a saw to cut pipe. De-burr and clean all cuts before assembly.
- Store pipe stock in a dry place. Keep pipe capped and clean.
- Use adapters to assemble different sizes of pipe.
- Do not use flux, soft solder, or anti-oxidant agents.
- Use a 15% silver phosphorous copper brazing alloy to avoid overheating and produce good flow.
- Protect isolation valves, electronic expansion valves, and other heat-sensitive control components from excessive heat with a wet rag or a heat barrier spray product

Refrigerant Safety Standards

ASHRAE Standards 15 and 34 address refrigerant safety and the maximum allowable concentration of refrigerant in an occupied space. Refrigerant will dissipate into the atmosphere, but a certain volume of air is required to safely dissipate the refrigerant. For R410A refrigerant, the maximum allowable concentration of refrigerant is 25 lbs./1,000 cubic feet of occupied spaces. Buildings with 24-hour occupancy allow half of that concentration.

If a VRF system develops a refrigerant leak, the entire refrigerant charge of the system will dump into the area where the leak occurs. To meet ASHRAE Standards 15 and 34, the smallest room volume on the system must be calculated and compared to the maximum allowable concentration. If the concentration level is higher than allowed, the following are some design suggestions to eliminate the problem:

- Split dual-frame and triple-frame systems into single-frame systems that have lower refrigerant charges.
- Add transfer grilles in the ceiling or walls of the smaller rooms to increase the volume of the room.
- Remove the smallest space from the system and serve it with a smaller mini-split system.

Refrigerant Piping System Insulation

All refrigerant piping including Y-branch and Header connections, field-provided isolation ball valves, service valves, and elbows shall be completely insulated using closed cell pipe insulation. The liquid and vapor lines must be insulated separately.

To prevent heat loss/heat gain through the refrigerant piping, all refrigerant piping including liquid lines, high-pressure vapor lines, and low-pressure vapor lines shall be insulated separately. Insulation shall be a minimum 1/2" thick, and thickness may need to be increased based on ambient conditions and local codes.

All insulation joints shall be glued with no air gaps. Insulation material shall fit snugly against the refrigeration pipe with no air space between it and the pipe. Insulation passing through pipe hangers, inside conduit, and/or sleeves must not be compressed. Protect insulation inside hangers and supports with a second layer. All pipe insulation exposed to the sun and outdoor elements shall be properly protected with PVC, aluminum vapor barrier, or alternatively placed in a weather-resistant enclosure such as a pipe rack with a top cover; and meet local codes. LG-provided Y-branches are shipped from the factory with pre-formed peel-and-stick foam insulation jackets, with a 1.84 lb./ft.^{3} density, 1/2" thickness, and meet UL94 MF-1 flammability.

The design engineer should perform calculations to determine if the factory-supplied insulation jackets are sufficient to meet local codes and avoid sweating. Add additional insulation if necessary. Check the fit of the insulation jacket after the header fitting and all run-out pipes are installed. Mark all pipes at the point where the insulation jacket ends. Remove the jacket. Install field provided insulation on the run-out and main trunk pipes first. Install the LG-provided insulation plugs on the ends of all unused header ports. Peel the adhesive glue protector slip from the insulation jacket and install the clam-shell jacket over the fitting.

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Multi-Frame Connectors (Outdoor Unit Y-branch Kits for ARUN Heat Pump Systems)

- LG outdoor unit Y-branch fittings must be used with LG systems and be properly installed following the instructions in the applicable LG manual. Field-supplied branch fittings are not permitted.
- Kit components must be kept free of debris and dry before installation.
- All Y-branch kits include a clam shell, peel-and-stick insulation jacket.

Figure 60: Y-branch Connectors (See Table 65).

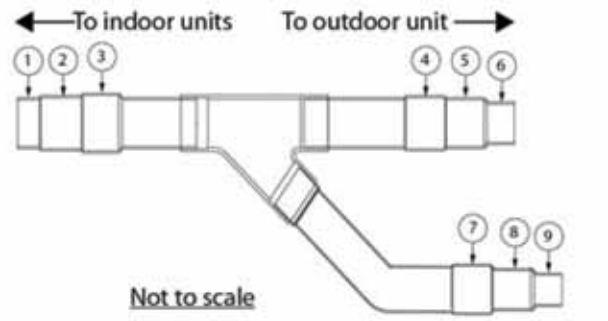


Table 65: Y-branch Connection Diameters (inches, ID).

Y-branch	Y-branch Type	Port Identifier								
		1	2	3	4	5	6	7	8	9
ARCNN21	Liquid	—	3/4	5/8	1/2	5/8	3/8	1/2	5/8	—
	Vapor	1-1/8	1-1/4	1-3/8	7/8	1-1/8	—	1-1/8	—	—
ARCNN31	Liquid	—	7/8	3/4	3/4	—	—	5/8	1/2	—
	Vapor	1-1/2	1-5/8	1-3/8	1-3/8	—	—	1-1/8	—	—

Figure 61: Y-branch dimensions (See Table 66).

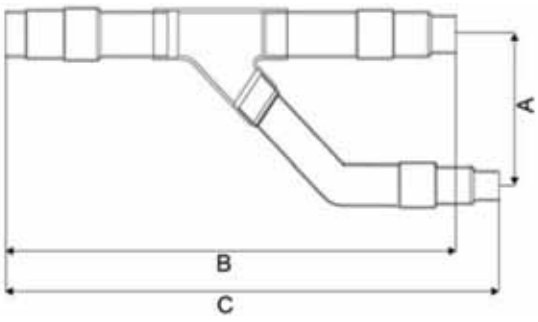


Table 66: Y-branch Dimensions (inches).

Y-branch	Y-branch Type	A	B	C
ARCNN21	Liquid	3-1/4	12-3/8	13-1/16
	Vapor	4-3/8	16-1/16	16-3/8
ARCNN31	Liquid	3-1/4	11-1/16	13-1/8
	Vapor	4-3/8	13-7/8	16

Figure 62: Reducer Components (See Table 67).

Table 67: Y-branch Reducer Diameters (inches).

Y-branch	Qty/Kit	Reducer Type	Reducer Diameters (in)				
			10	11	12	13	Length
ARCNN21	4	Liquid	7/8 ID	3/8 OD	—	—	2-3/4
			5/8 OD	—	1/2 ID	3/8 ID	4-3/8
		Vapor	1-5/8 ID	1-1/2 ID	—	1-3/8 OD	5-1/8
			1-1/8 OD	—	7/8 ID	3/4 ID	4-3/4
ARCNN31	4	Liquid	3/4 ID	—	5/8 ID	1/2 ID	4-3/8
			1/2 OD	—	3/8 ID	1/4 ID	4-3/8
		Vapor	1-5/8 ID	—	1-3/8 OD	—	4-7/8
			1-1/8 OD	—	7/8 ID	3/4 ID	4-3/4

Table 68: Fitting Properties.

Material	Copper
Design Pressure	551 psig

Table 69: Insulation Jacket Properties.

Material	Polyolefin Foam
UL94 Flame Classification	HF-1
Density	1.84 lbs./ft.^{3}
Thermal Conductivity	.0208 Btu/h/ft. ºR
Thickness	1/2 inch

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- LG indoor unit Y-branch fittings must be used with LG systems and be properly installed following the instructions in the applicable LG manual. Field-supplied branch fittings are not permitted.
- Kit components must be kept free of debris and dry before installation.
- All Y-branch kits include a clam shell, peel-and-stick insulation jacket.

Note:

- *Design pressure is 551 psig.*
- *All dimensions in inches. Tolerance ±1/4 inch.*
- *Images are not to scale.*

Table 70: Nominal Capacity Range (Btu/h).

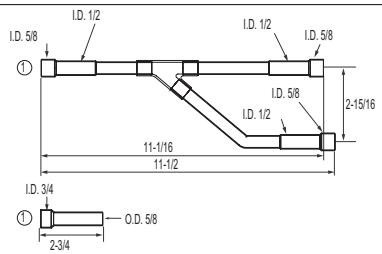
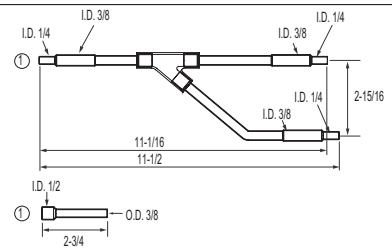
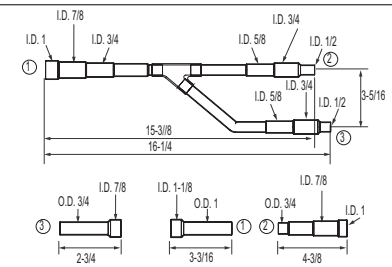
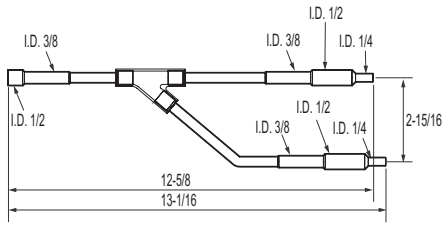
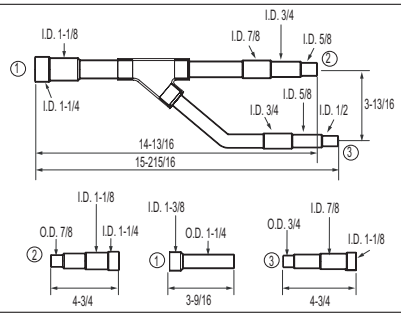
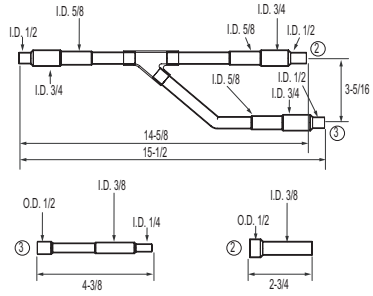
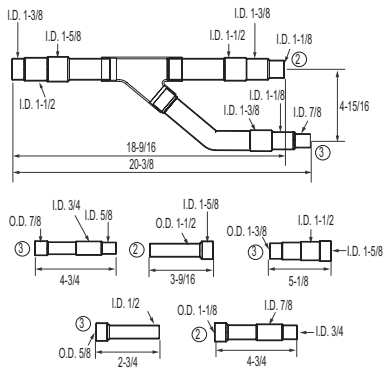
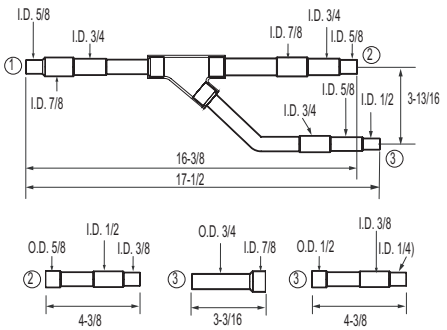
Model	Fitting Capacity
ARBLN01621	≤72,000 connected capacity
ARBLN03321	≤144,000 connected capacity
ARBLN07121	≤336,000 connected capacity
ARBLN14521	≤432,000 connected capacity

Table 71: Insulation Jacket Properties.

Material	Polyolefin Foam
UL94 Flame Classification	HF-1
Density	1.84 lbs./ft.^{3}
Thermal Conductivity	.0208 Btu/h/ft. ºR
Thickness	1/2 inch



Unit: Inch

Models	Vapor pipe	Liquid pipe
ARBLN01621		
ARBLN03321		
ARBLN07121		
ARBLN14521		

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Multi-Frame Connectors (Outdoor Unit Y-branch Kits for ARUB Heat Recovery Systems)

- LG outdoor unit Y-branch fittings must be used with LG systems and be properly installed following the instructions in the applicable LG manual. Field-supplied branch fittings are not permitted.
- Kit components must be kept free of debris and dry before installation.
- All Y-branch kits include a clam shell, peel-and-stick insulation jacket.

Figure 63: Y-branch Connectors (See Table 76).

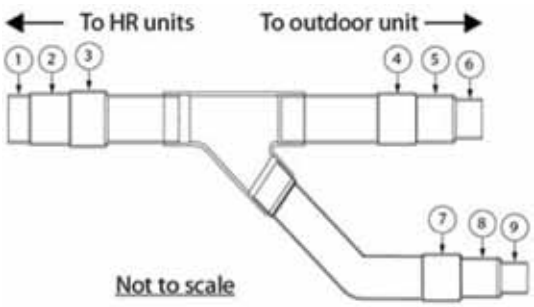


Table 72: Y-branch Connection Diameters (inches, ID)

Y-branch	Y-branch Type	Port Identifier								
		1	2	3	4	5	6	7	8	9
ARCNB21	Liquid	—	3/4	5/8	1/2	5/8	3/8	1/2	5/8	—
	Vapor Line Low	1-1/8	1-1/4	1-3/8	7/8	1-1/8	—	1-1/8	—	—
	Vapor Line High	1-1/8	1-3/8	1-1/4	1-1/8	1-1/4	1	1-1/8	1-1/4	1
ARCNB31	Liquid	—	7/8	3/4	3/4	—	—	5/8	1/2	—
	Vapor Line Low	1-1/2	1-5/8	1-3/8	1-3/8	—	—	1-1/8	—	—
	Vapor Line High	1-3/8	1-1/2	1-5/8	1-1/2	1-3/8	1-1/8	1-3/8	1-1/8	7/8

Figure 64: Y-branch Dimensions (See Table 77).

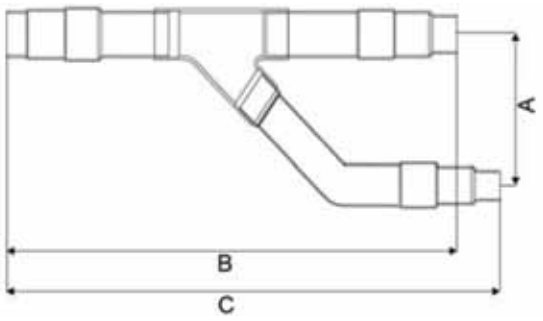


Table 73: Y-branch Dimensions (inches)

Y-branch	Y-branch Type	A	B	C
ARCNN21	Liquid	3-1/4	12-3/8	13-1/16
	Vapor Line Low	4-3/8	16-1/16	16-3/8
	Vapor Line High	4-3/8	17-7/8	19-5/16
ARCNN31	Liquid	3-1/4	11-1/16	13-1/8
	Vapor Line Low	4-3/8	13-7/8	16
	Vapor Line High	4-15/16	18-9/16	20-3/8

Figure 65: Reducer Components (See Table 78).

Table 74: Y-branch Reducer Diameters (inches).

Y-branch	Qty/Kit	Reducer Type	Reducer Diameters (inches)				
			10	11	12	13	Length
ARCNB21	7	Liquid	7/8 ID	3/4 OD	—	—	2-3/4
			5/8 OD	—	1/2 ID	3/8 ID	4-3/8
		Vapor Line Low	1-5/8 ID	1-1/2 ID	—	1-3/8 OD	5-1/8
			1-1/8 OD	—	7/8 ID	3/4 ID	4-3/4
		Vapor Line High	1 OD	7/8 ID	—	—	3-1/4
			1 OD	—	7/8 ID	3/4 ID	4-3/4
			3/4 OD	—	5/8 OD	1/2 ID	4-3/8
ARCNB31	6	Liquid	3/4 OD	—	5/8 ID	1/2 ID	4-3/8
			1/2 OD	—	3/8 ID	1/4 ID	4-3/8
		Vapor Line Low	1-5/8 ID	—	1-3/8 OD	—	4-7/8
			1-1/8 OD	—	7/8 ID	3/4 ID	4-3/4
		Vapor Line High	7/8 OD	—	3/4 ID	5/8 ID	4-3/4
			1-1/8 OD	—	7/8 ID	3/4 ID	4-3/4

Table 75: Fitting Properties.

Material	Copper
Design Pressure	551 psig

Table 76: Insulation Jacket Properties.

Material	Polyolefin Foam
UL94 Flame Classification	HF-1
Density	1.84 lbs./ft.^{3}
Thermal Conductivity	.0208 Btu/h/ft. ºR
Thickness	1/2 inch

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- LG indoor unit Y-branch fittings must be used with LG systems and be properly installed following the instructions in the applicable LG manual. Field-supplied branch fittings are not permitted.
- Kit components must be kept free of debris and dry before installation.
- All Y-branch Kits include a clam shell, peel-and-stick insulation jacket.

⚠ *Note:*

- *Design pressure is 551 psig.*
- *All dimensions in inches. Tolerance ±1/4 inch.*
- *Images are not to scale.*

Table 77: Nominal Capacity Range (Btu/h).

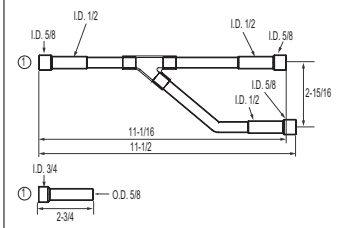
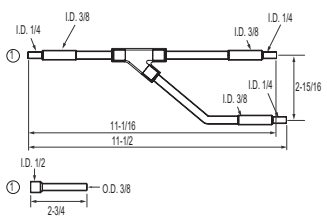
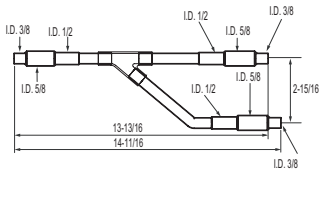
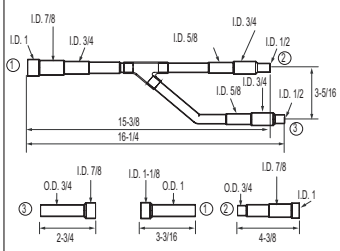
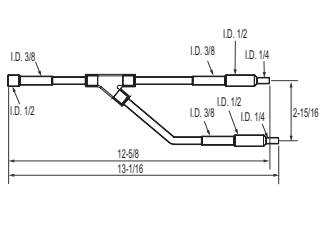
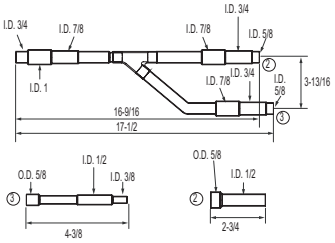
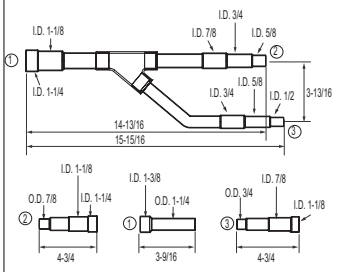
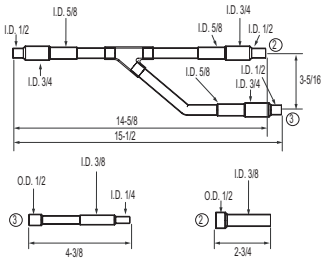
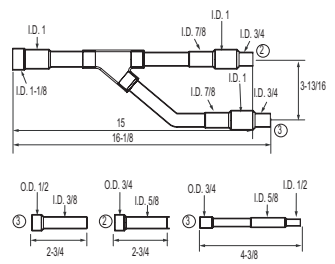
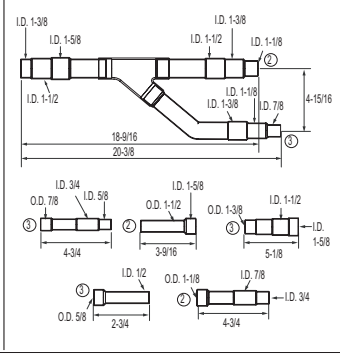
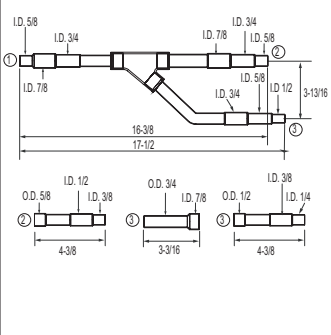
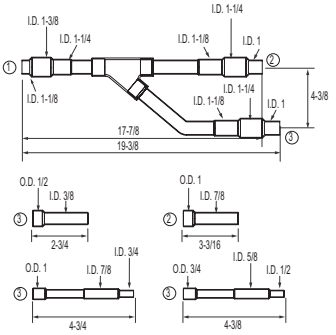
Model	Fitting Capacity
ARBLB01621	≤72,000 connected capacity
ARBLB03321	≤144,000 connected capacity
ARBLB07121	≤336,000 connected capacity
ARBLB14521	≤432,000 connected capacity

Table 78: Insulation Jacket Properties.

Material	Polyolefin Foam
UL94 Flame Classification	HF-1
Density	1.84 lbs./ft.^{3}
Thermal Conductivity	.0208 Btu/h/ft. ºR
Thickness	1/2 inch



Unit: Inch

Models	Low-Pressure Vapor Pipe	Liquid pipe	High-Pressure Vapor Pipe
ARBLB01621			
ARBLB03321			
ARBLB07121			
ARBLB14521			

Refrigerant Piping Design & Layout Best Practices

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Header Kits

- LG Headers serve as central connections for multiple runout pipe segments terminating at indoor units.
- Headers must be used with LG systems and be properly installed following the instructions in the applicable LG manual. Field-supplied headers are not permitted.
- Kit components must be kept free of debris and dry before installation.
- All Header Kits include:
- Insulation jacket (one each for vapor and liquid pipes)
- Plugging tubes / Insulation for plugging tubes (see Table 80).

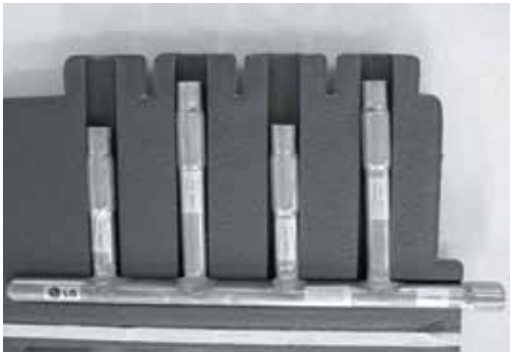


Table 79: Nominal Capacity Range.

Model	Fitting Capacity	Port Capacity
ARBL054 (4 branch)	≤72,000 connected capacity	≤54,300 per port
ARBL057 (7 branch)	≤75,100 connected capacity	≤54,300 per port
ARBL1010 (10 branch)	≤172,200 connected capacity	≤76,300 per port
ARBL104 (4 branch)	≤305,200 connected capacity	≤76,300 per port
ARBL107 (7 branch)	≤534,000 connected capacity	<76,300 per port
ARBL2010 (10 branch)	≤560,000 connected capacity	≤76,300 per port

Table 80: Plugging Tubes and Plugging Tube Insulation Amounts.

Header Kits	Plugging Tubes			Insulation for Plugging Tubes
	1/4Ø	1/2Ø	5/8Ø	
ARBL054 (4 port)	—	—	—	—
ARBL057 (7 port)	2	2	—	4
ARBL1010 (10 port)	2	2	2	6
ARBL104 (4 port)				
ARBL107 (7 port)	2	2	2	6
ARBL2010 (10 port)	2	2	2	6

Note:

- *All dimensions in inches.*
- *Tolerance ±1/4 inch.*
- *Images are not to scale.*

Table 81: Insulation Jacket Properties.

Material	Polyolefin Foam
UL94 Flame Classification	HF-1
Density	1.84 lbs./ft.^{3}
Thermal Conductivity	.0208 Btu/h/ft. ºR
Thickness	1/2 inch

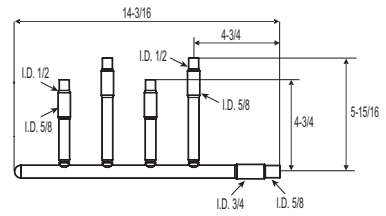
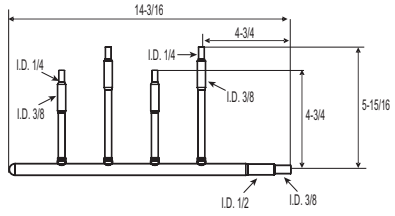
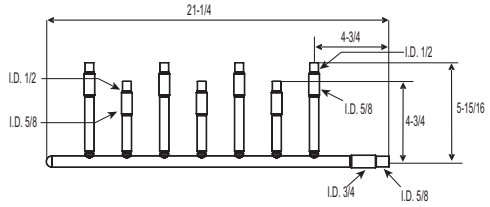
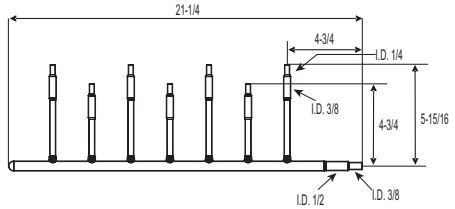
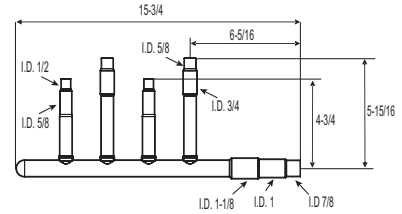
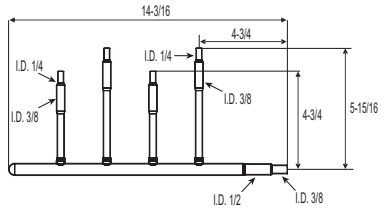
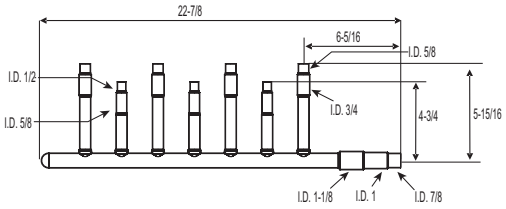
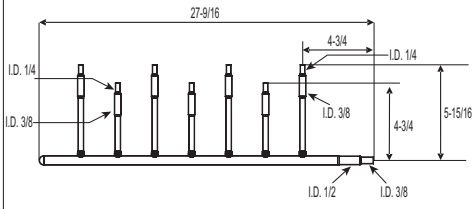
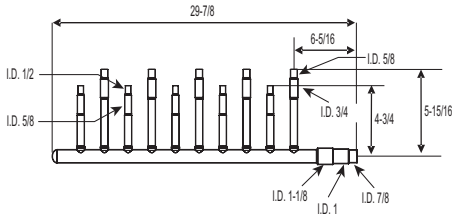
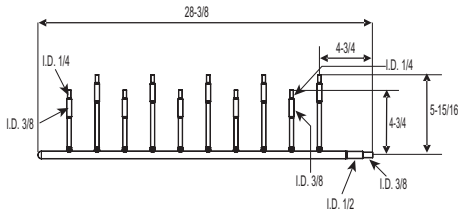
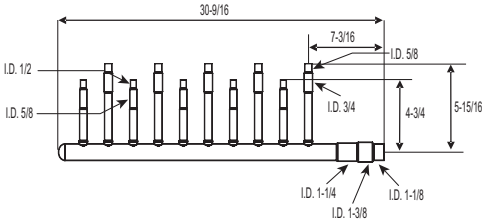
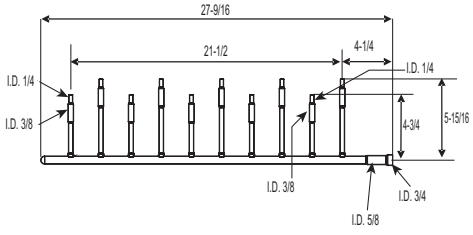
Table 82: Fitting Properties.

Material	Copper
Design Pressure	551 psig

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Unit: Inch

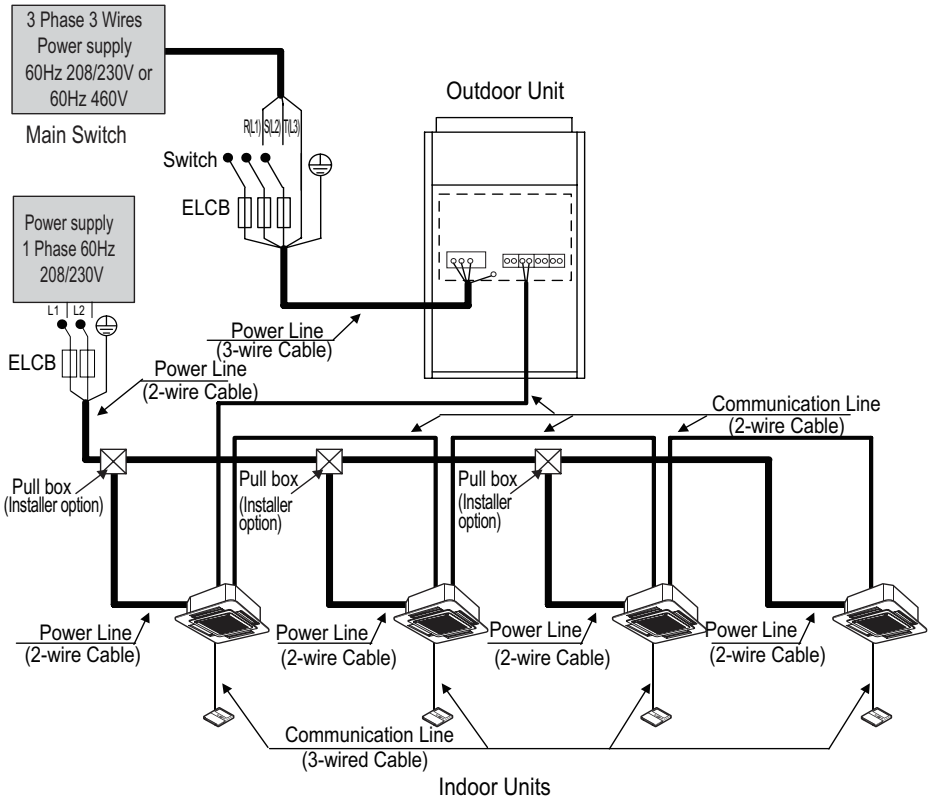
Models	Vapor pipe	Liquid pipe
4 branch ARBL054		
7 branch ARBL057		
4 branch ARBL104		
7 branch ARBL107		
10 branch ARBL1010		
10 branch ARBL2010		

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ELECTRICAL CONNECTIONS

MULTI V III

Single-Frame ARUN Series Heat Pump Systems (208-230V and 460V)



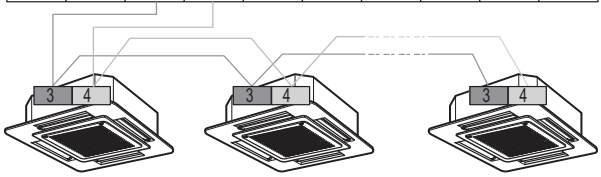
⚠ WARNING

- *Ground wiring is required to prevent accidental electrical shock during current leakage, communication problems from electrical noise, and motor current leakage. Do not connect the ground line to the pipes. Ground the communication control cable at the outdoor unit only.*
- *Install a main shutoff switch that interrupts all power sources simultaneously.*
- *If the system operates in reversed phase, it may break the compressors and other components.*
- *If there is a possibility of reversed phase, phase loss, momentary blackout, or the power goes on and off while the system is operating, install a field-supplied phase loss protection circuit. Operating the system in reverse phase may break the compressor and other unit components.*

Heat Pump
Between Indoor and Master Outdoor unit

SODU		IDU		INTERNET		DR Y1	DR Y2	GND	12V
B	A	B	A	B	A				

Master Outdoor Unit



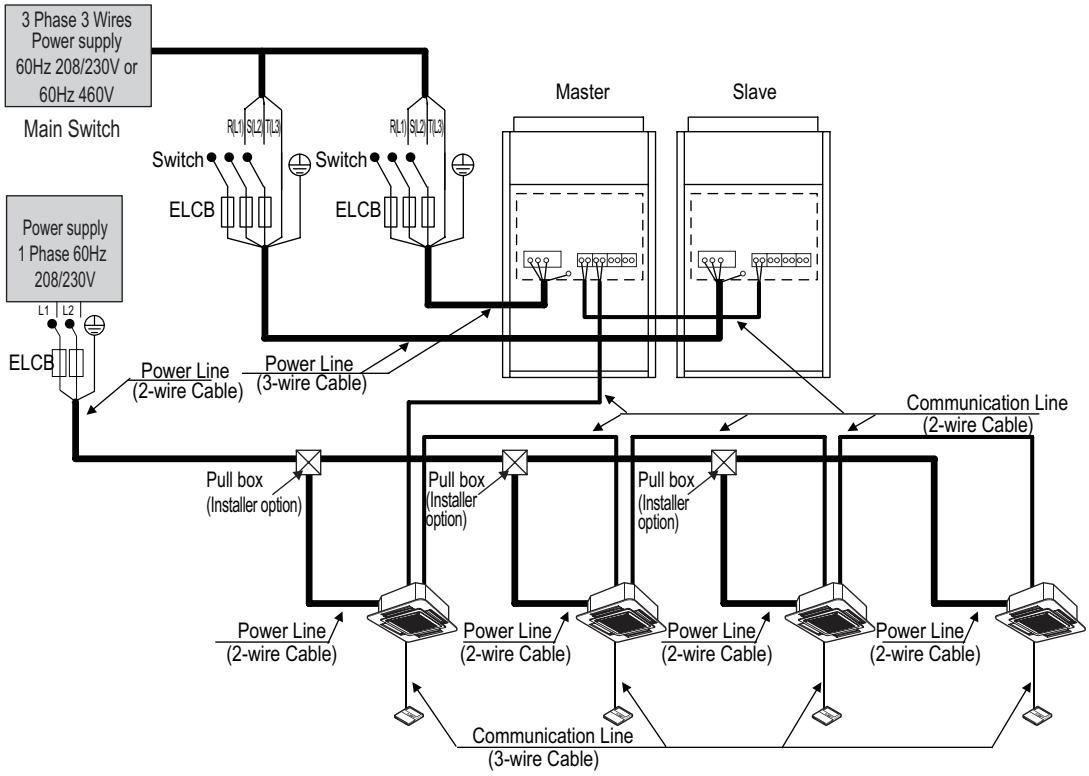
The GND terminal at the main PCB is a '-' terminal for day contact, not a ground line.

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ELECTRICAL CONNECTIONS

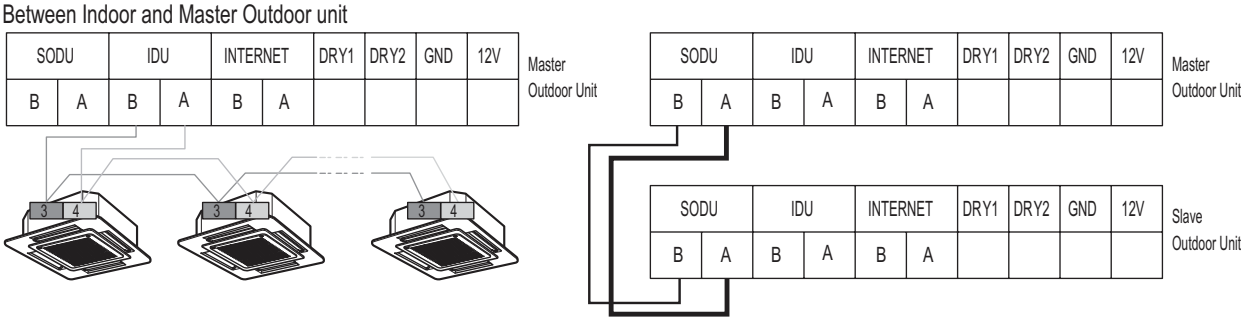
Dual-Frame ARUN Series Heat Pump Systems (208-230V and 460V)



⚠ WARNING

- *Ground wiring is required to prevent accidental electrical shock during current leakage, communication problems from electrical noise, and motor current leakage. Do not connect the ground line to the pipes. Ground the communication control cable at the outdoor unit only.*
- *Install a main shutoff switch that interrupts all power sources simultaneously.*
- *If the system operates in reversed phase, it may break the compressors and other components.*
- *If there is a possibility of reversed phase, phase loss, momentary blackout, or the power goes on and off while the system is operating, install a field-supplied phase loss protection circuit. Operating the system in reverse phase may break the compressor and other unit components.*

Heat Pump
Between Indoor and Master Outdoor unit



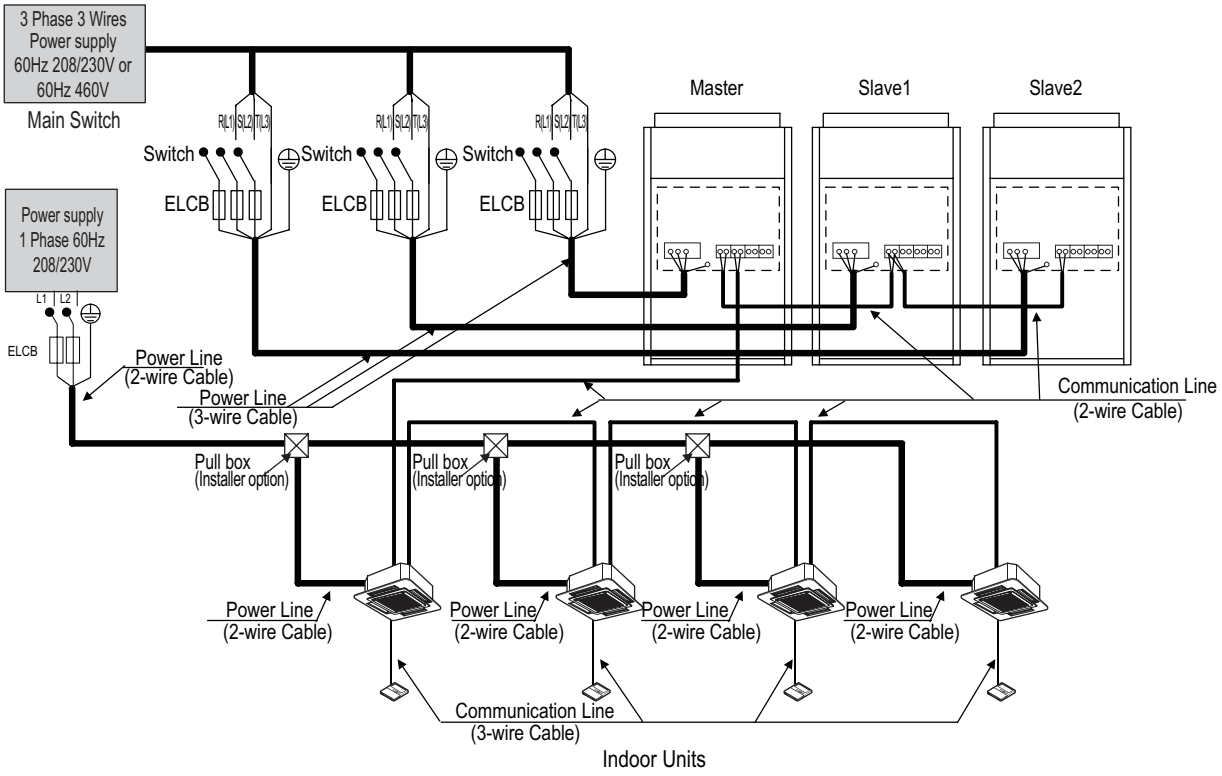
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ELECTRICAL CONNECTIONS

MULTI V III

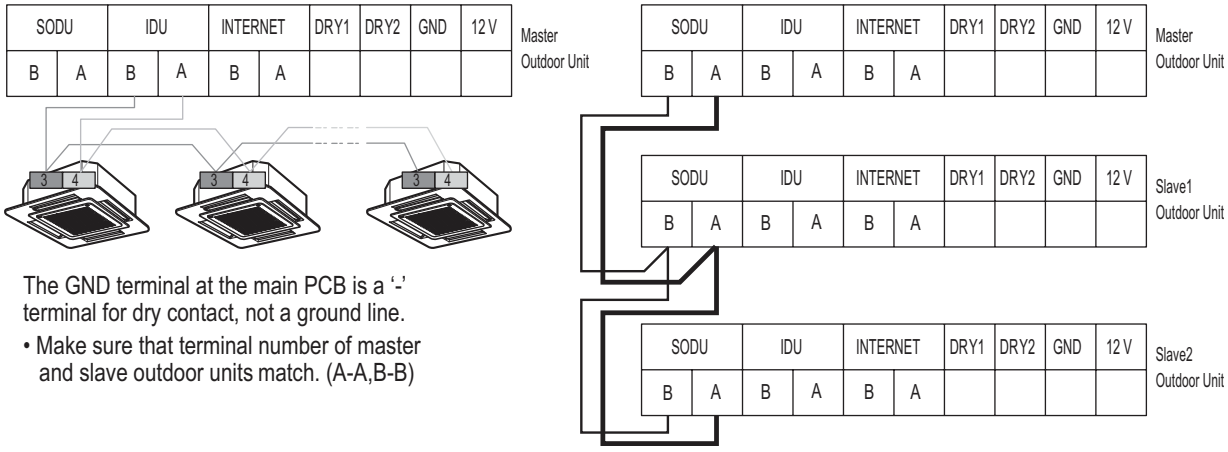
Triple-Frame ARUN Series Heat Pump Systems (208-230V and 460V)



⚠ WARNING

- *Ground wiring is required to prevent accidental electrical shock during current leakage, communication problems from electrical noise, and motor current leakage. Do not connect the ground line to the pipes. Ground the communication control cable at the outdoor unit only.*
- *Install a main shutoff switch that interrupts all power sources simultaneously.*
- *If the system operates in reversed phase, it may break the compressors and other components.*
- *If there is a possibility of reversed phase, phase loss, momentary blackout, or the power goes on and off while the system is operating, install a field-supplied phase loss protection circuit. Operating the system in reverse phase may break the compressor and other unit components.*

Heat Pump
Between Indoor and Master Outdoor unit



The GND terminal at the main PCB is a '-' terminal for dry contact, not a ground line.

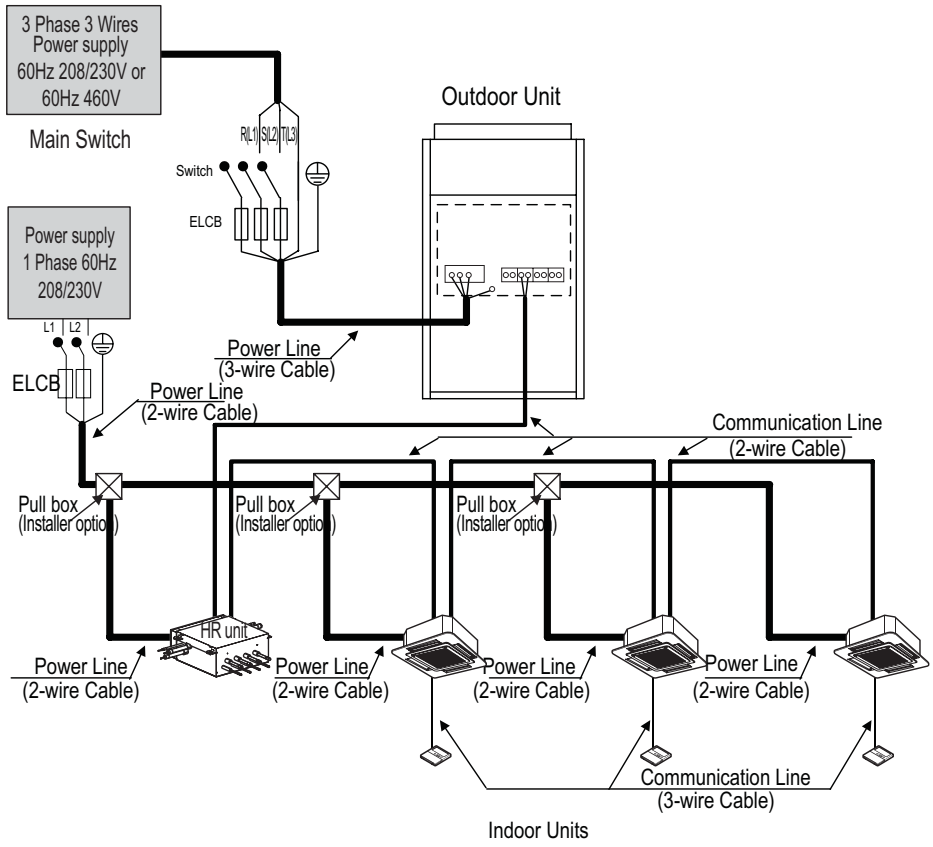
- Make sure that terminal number of master and slave outdoor units match. (A-A,B-B)

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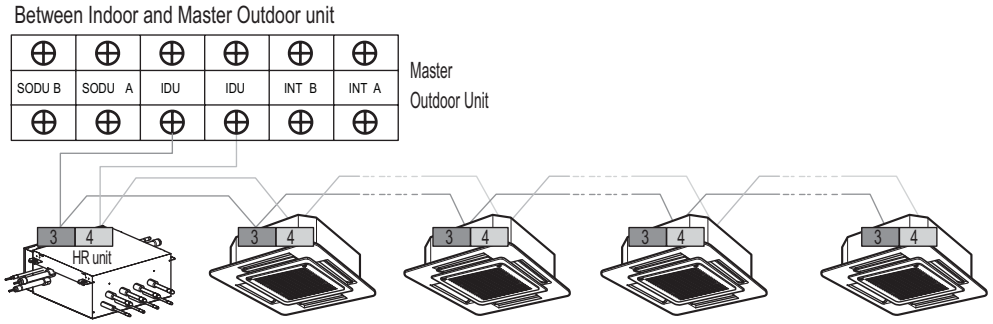
ELECTRICAL CONNECTIONS

Single-Frame ARUB Series Heat Recovery Systems (208-230V and 460V)



⚠WARNING

- *Ground wiring is required to prevent accidental electrical shock during current leakage, communication problems from electrical noise, and motor current leakage. Do not connect the ground line to the pipes. Ground the communication control cable at the outdoor unit only.*
- *Install a main shutoff switch that interrupts all power sources simultaneously.*
- *If the system operates in reversed phase, it may break the compressors and other components.*
- *If there is a possibility of reversed phase, phase loss, momentary blackout, or the power goes on and off while the system is operating, install a field-supplied phase loss protection circuit. Operating the system in reverse phase may break the compressor and other unit components.*



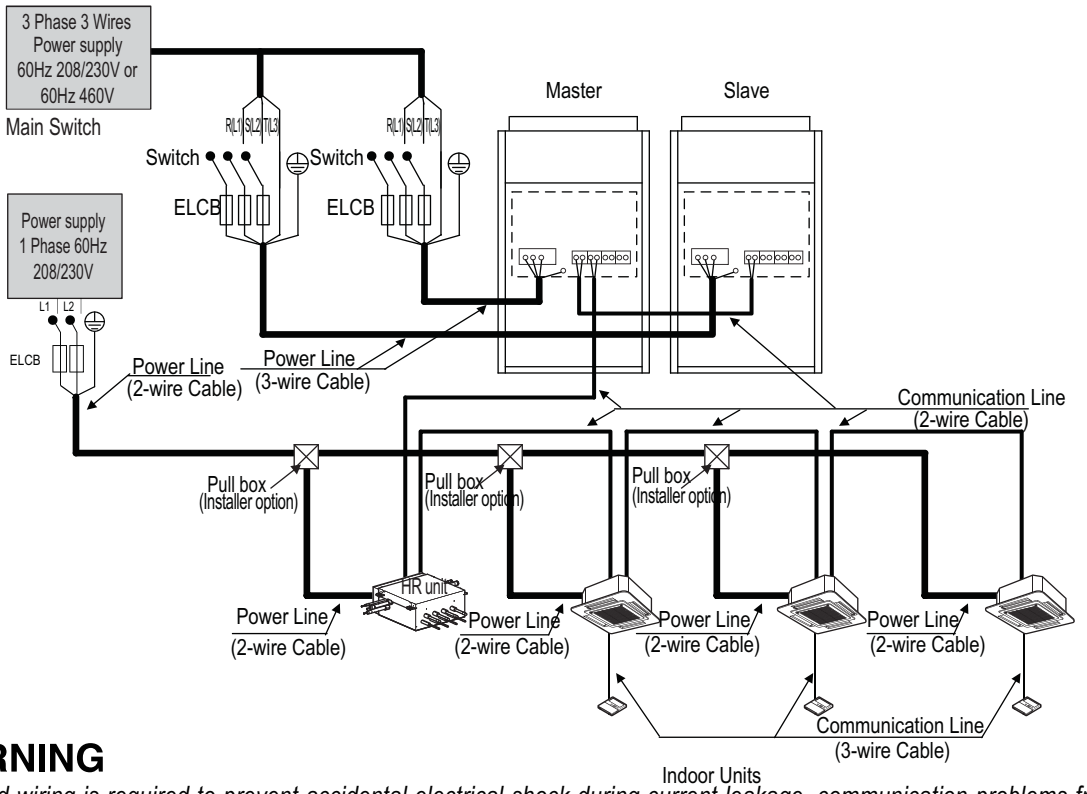
The GND terminal at the main PCB is a '-' terminal for dry contact, not a ground line.

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ELECTRICAL CONNECTIONS

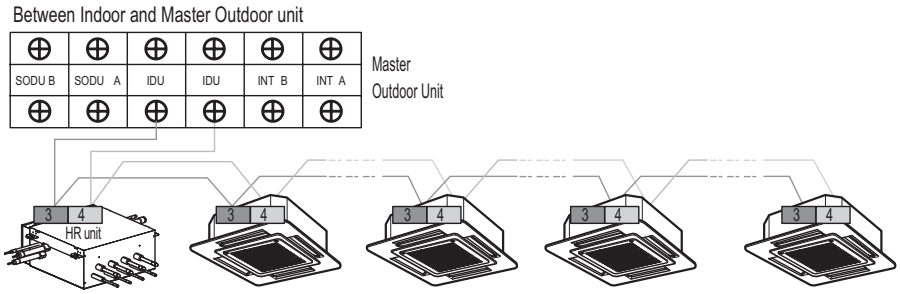
MULTI V III

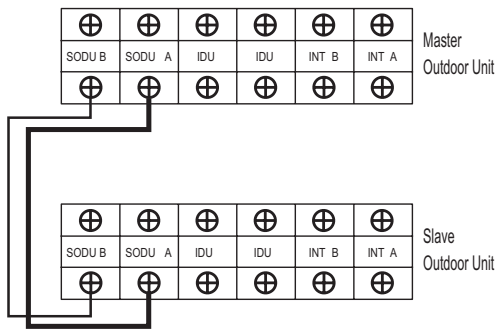
Dual-Frame ARUB Series Heat Recovery Systems (208-230V and 460V)



⚠ WARNING

- *Ground wiring is required to prevent accidental electrical shock during current leakage, communication problems from electrical noise, and motor current leakage. Do not connect the ground line to the pipes. Ground the communication control cable at the outdoor unit only.*
- *Install a main shutoff switch that interrupts all power sources simultaneously.*
- *If the system operates in reversed phase, it may break the compressors and other components.*
- *If there is a possibility of reversed phase, phase loss, momentary blackout, or the power goes on and off while the system is operating, install a field-supplied phase loss protection circuit. Operating the system in reverse phase may break the compressor and other unit components.*





The GND terminal at the main PCB is a '-' terminal for dry contact, not a ground line.

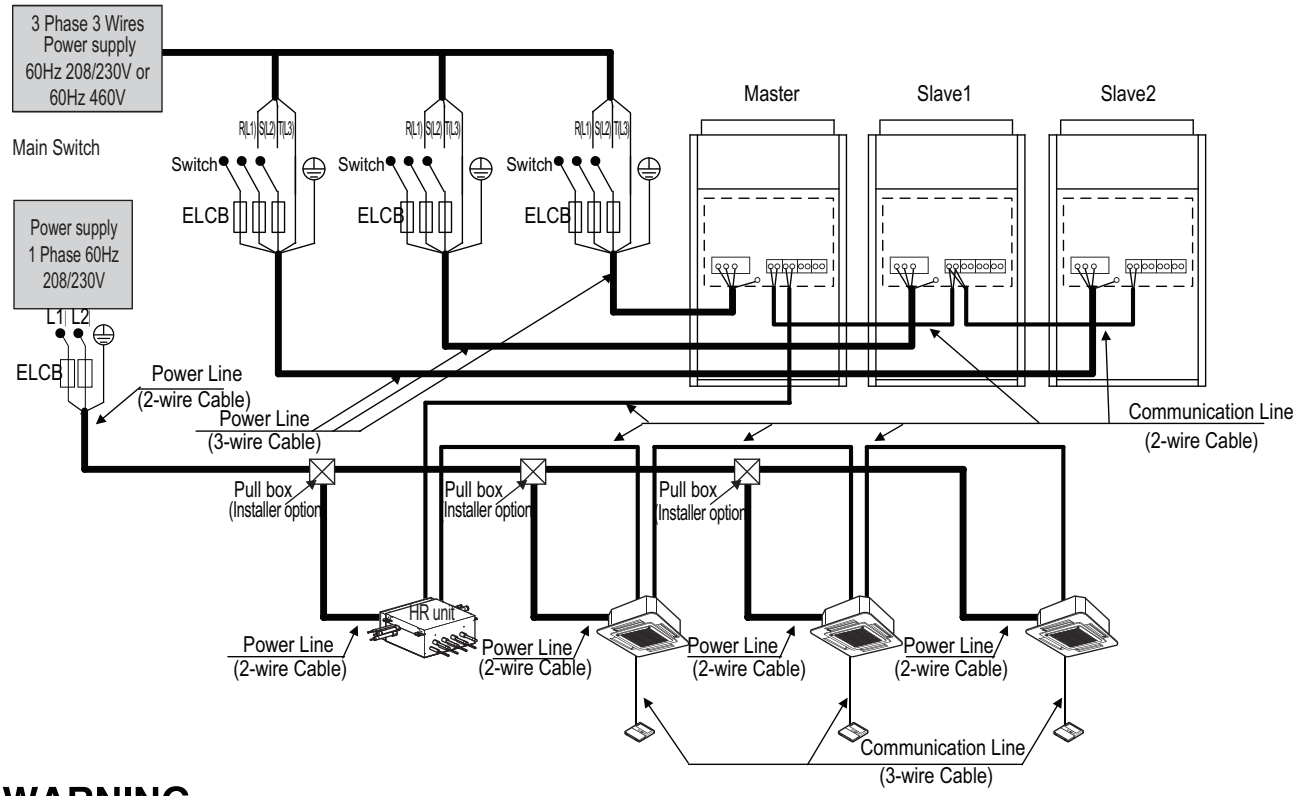
- Make sure that terminal number of master and slave outdoor units match. (A-A,B-B)

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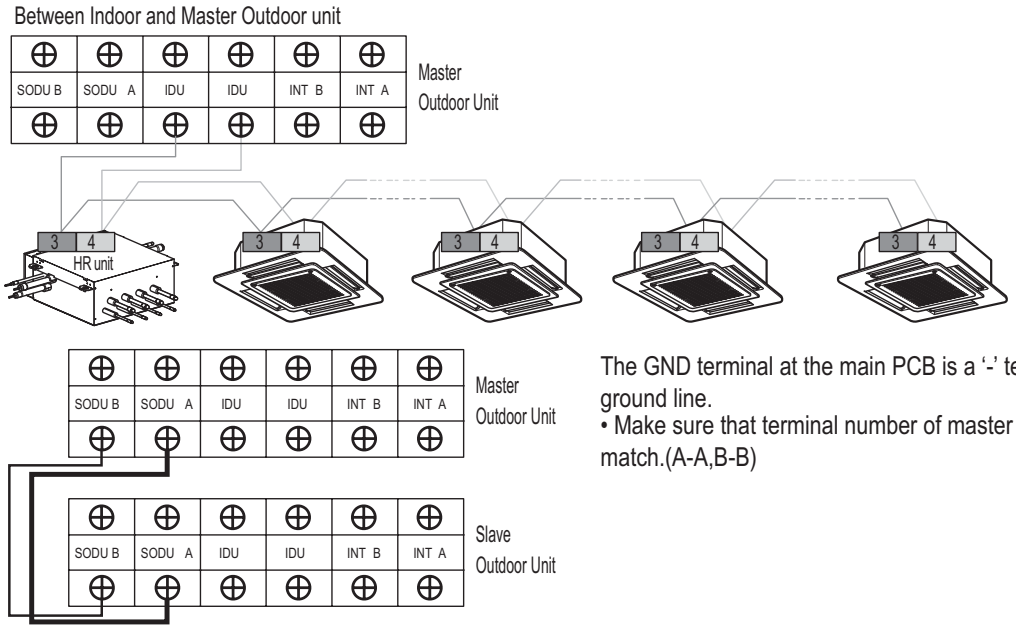
ELECTRICAL CONNECTIONS

Triple-Frame ARUB Series Heat Recovery Systems (208-230V and 460V)



⚠WARNING

- *Ground wiring is required to prevent accidental electrical shock during current leakage, communication problems from electrical noise, and motor current leakage . Do not connect the ground line to the pipes. Ground the communication control cable at the outdoor unit only.*
- *Install a main shutoff switch that interrupts all power sources simultaneously.*
- *If the system operates in reversed phase, it may break the compressors and other components.*
- *If there is a possibility of reversed phase, phase loss, momentary blackout, or the power goes on and off while the system is operating, install a field-supplied phase loss protection circuit. Operating the system in reverse phase may break the compressor and other unit components.*



The GND terminal at the main PCB is a '-' terminal for dry contact, not a ground line.

- Make sure that terminal number of master and slave outdoor units match.(A-A,B-B)

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ELECTRICAL CONNECTIONS

Communications Cable Wiring

Figure 66: Multi V III ARUN Series Heat Pump System—Daisy-Chain Communications Cable Wiring.

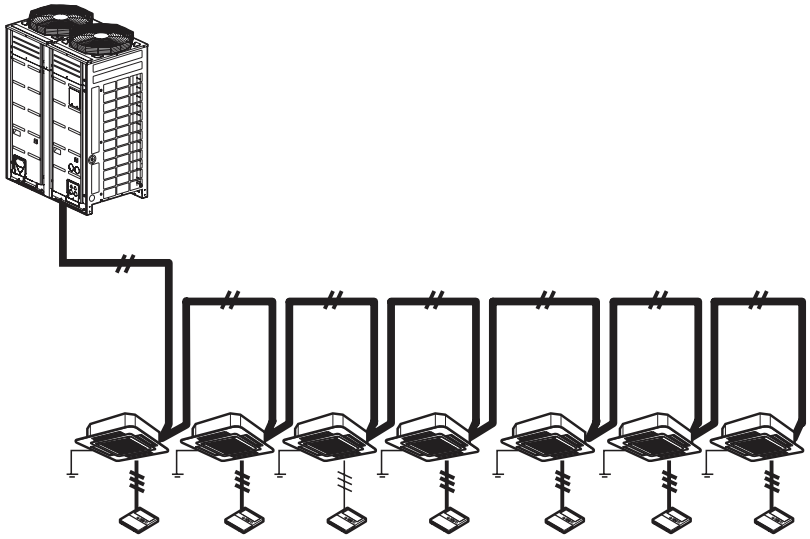
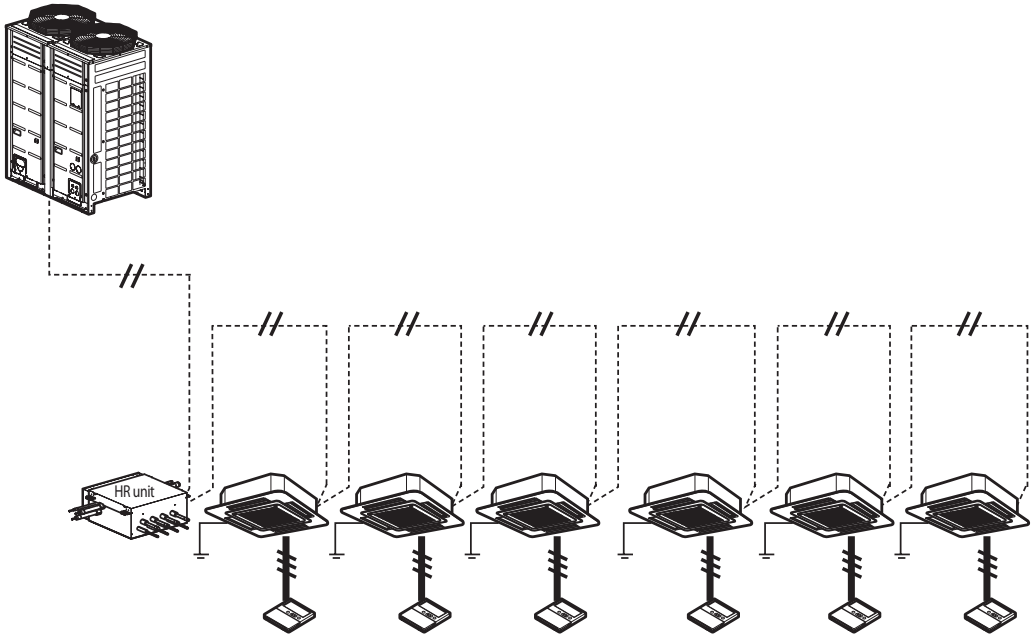


Figure 67: Multi V III ARUB Series Heat Recovery System—Daisy-Chain Communications Cable Wiring.



⚠ ***Note:***

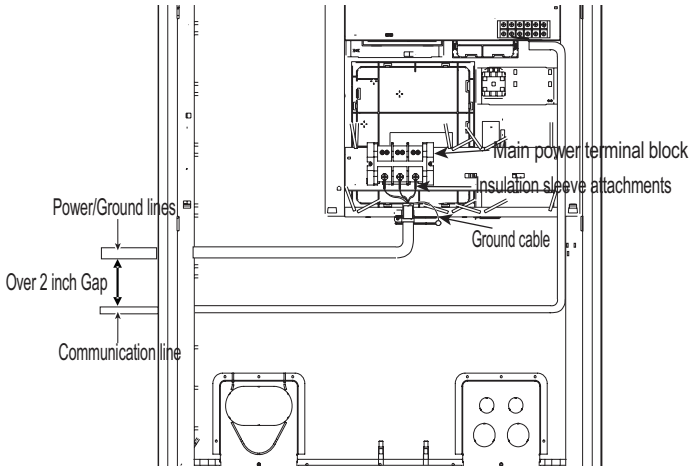
Communications cables are shielded, grounded at the outdoor unit(s) only. Maintain polarity throughout the communication network.

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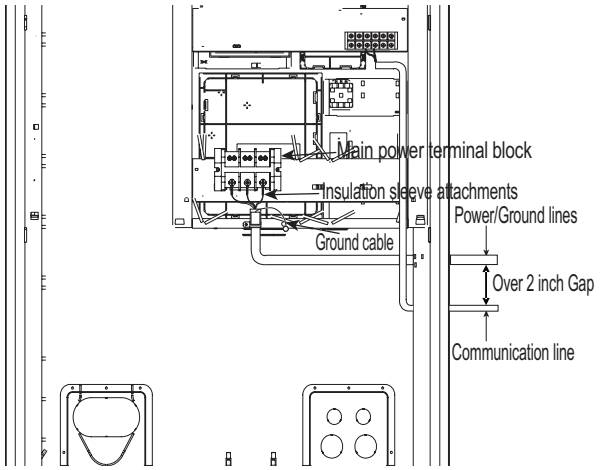
ELECTRICAL CONNECTIONS

Small-Frame Connections

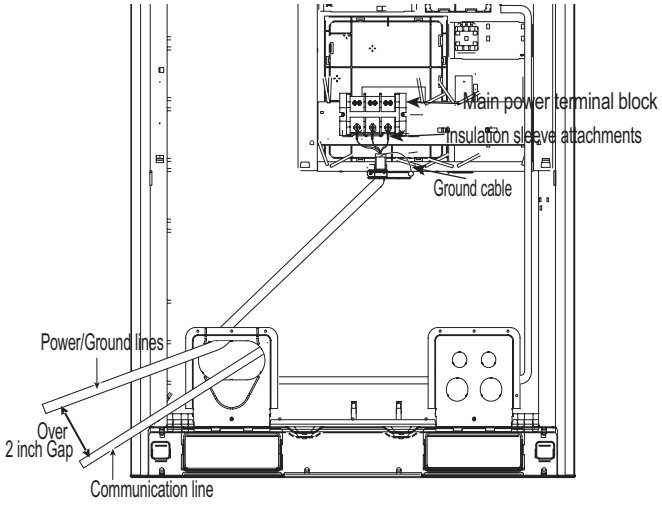
Left Side



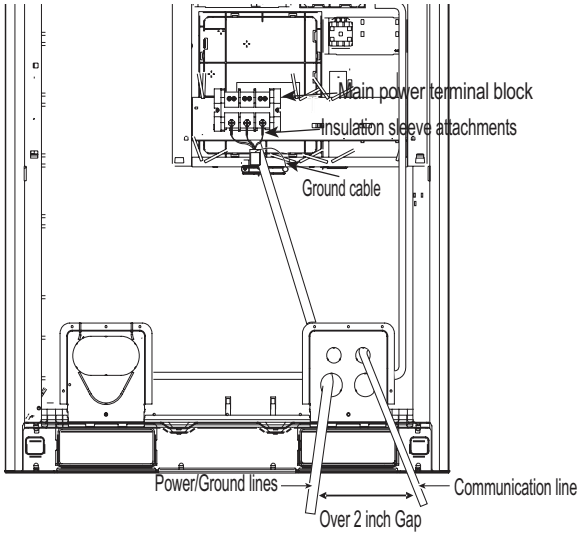
Right Side



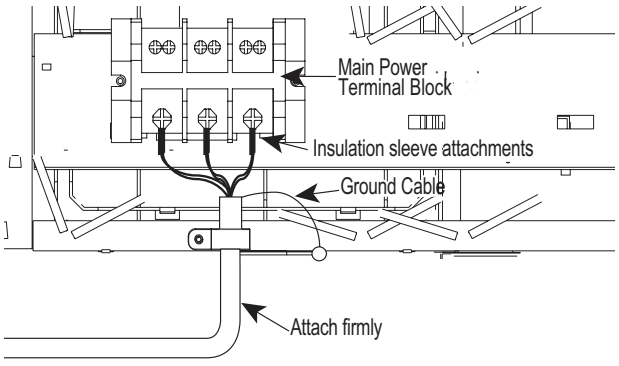
Front Side 1



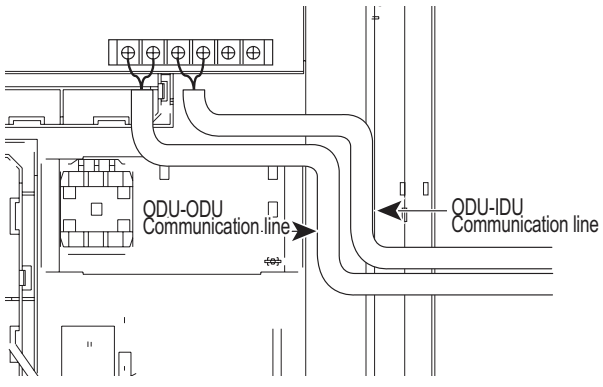
Front Side 2



Main Power Connection



Main PCB Connection

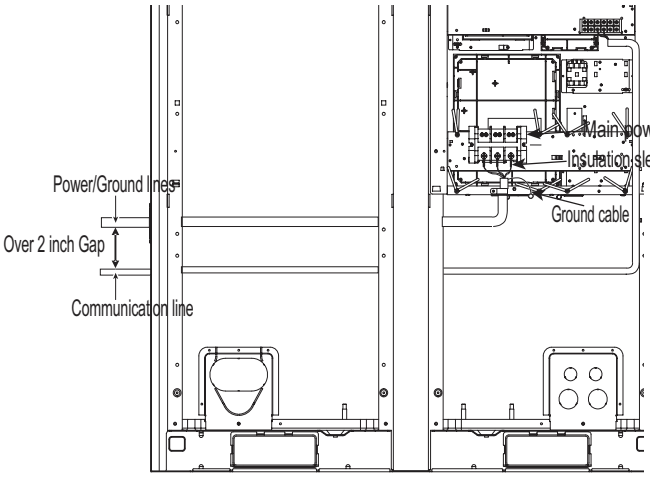


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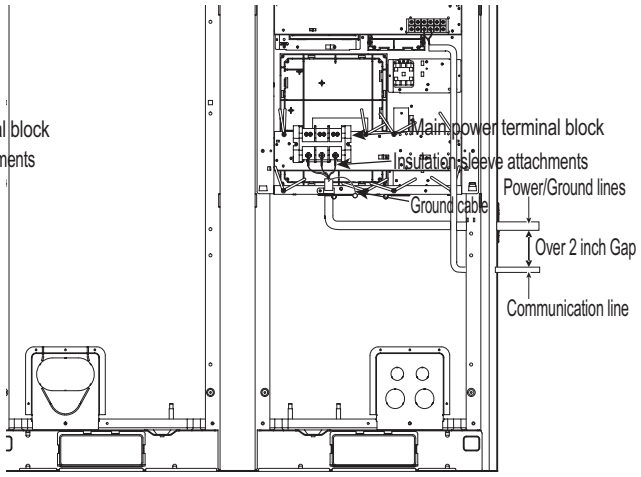
ELECTRICAL CONNECTIONS

Large-Frame Connections

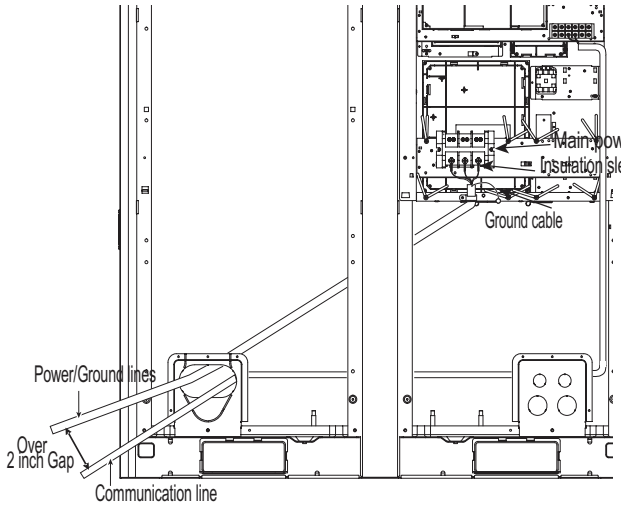
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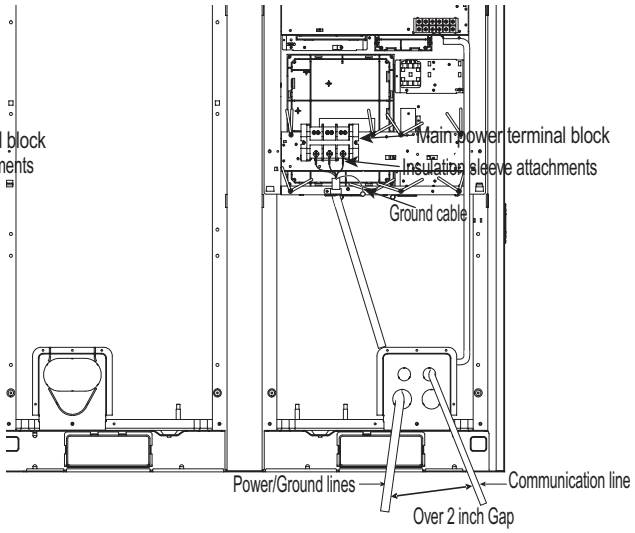
Right Side



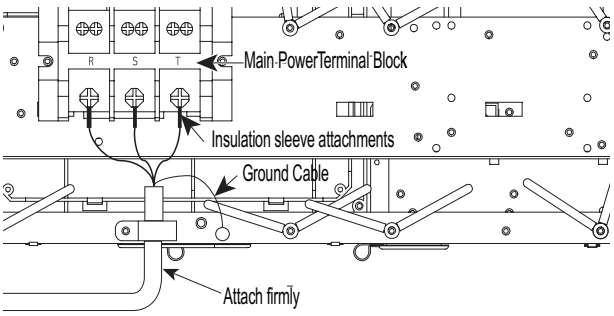
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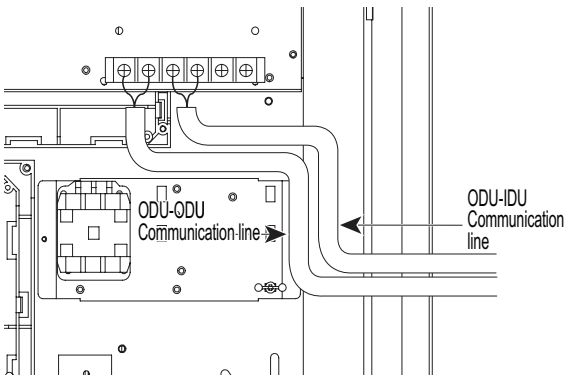
Front Side 2



Main Power Connection



Main PCB Connection



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TECHNICAL DATA

“U.S. Design Standards—ASHRAE Standards” on page 252
“U.S. Design Standards—Building Sustainability” on page 256
“Mechanical Specifications—Outdoor Units” on page 258
“Mechanical Specifications—Heat Recovery Units” on page 259
“Acronyms” on page 260

ASHRAE STANDARDS SUMMARY

MULTI V III

ASHRAE Standard 15-2004 and ASHRAE Standard 34-2007

Members of the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) have collaborated to develop voluntary standards to assist design professionals with:

- Industry best practices to safely use refrigerants.
- Guidelines to properly ventilate commercial buildings using various technologies.
- Proper control of building temperature and relative humidity.
- Design building systems to minimize consumption of certain utilities.

Table 85: ASHRAE Publications.

Standard 15-2004	Safety Standard for Refrigeration Systems
Standard 34-2007	Designation and Safety Classification of Refrigerants
Standard 62.1-2010	Ventilation for Acceptable Indoor Air Quality

⚠ *Note:*

We provide just a summary of the Standards impacting the design of the Multi V system or the safety of building occupants. Refer to the ASHRAE Standards for detailed design information.

ASHRAE Standards 15 and 34—Designing for Refrigerant Safety with Multi V

Standards 15-2004 and 34-2007 were developed to educate the design community on the safe use of refrigerants in commercial buildings and to address the classification of refrigerants. All Multi V systems use R410A refrigerant, which ASHRAE Standard 15-2004 and ASHRAE Standard 34-2007 classify in Safety Group "A1."[1] These are the same ratings given to refrigerants R22, R134A, and R407C.

The displacement of oxygen in an occupied space could lead to occupant asphyxiation in the event of a catastrophic release of the entire system's refrigerant charge. The standard allows a Refrigerant Concentration Limit (RCL) of 0.026 lbs./ft^3 for R410A in most applications (refer to Standard for exceptions). The RCL rating indicates the allowable concentration (by weight) of refrigerant per cubic foot of room volume to avoid escape-impairing effects, such as oxygen deprivation, flammability, and cardiac sensitization.

⚠WARNING

This designation does not indicate that R410A is non-toxic. With high enough concentration levels, all refrigerants can be hazardous.

The standards are written to cover worst case scenarios and assume that the complete system charge is released into a confined space over a short period. If a refrigerant leak occurs, the actual concentration level in the confined space is dependent on the quantity of refrigerant in the equipment and the volume of air available for dispersion and dilution.

The total estimated charge of the refrigeration system is calculated by either LG's LATS Multi V refrigerant piping design software (see "LATS Multi V Pipe System Design Tool" on page 200), or manually by following the procedure titled "Multi V III Refrigerant Charge" on page 216. To apply the standard, the designer must first determine the occupied space with the smallest cubic volume served by the system.

[1]*American Society of Heating, Refrigeration and Air Conditioning Engineers, Inc. (ASHRAE) Standard 15-2004. Atlanta, GA. ASHRAE, Inc. Section 7.3.*

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ASHRAE STANDARDS SUMMARY

ASHRAE Standard 15-2004 and ASHRAE Standard 34-2007

Calculate the volume of air in each occupied space using the following guidelines to determine the dimensions of each space:

Nonconnected Spaces Defined as: "Where a refrigerating system or a part thereof is located in one or more enclosed occupied spaces that do not connect through permanent openings or HVAC ducts. Where different stories and floor levels connect through an open atrium or mezzanine arrangement, the volume used is determined by multiplying the floor area of the lowest space by 8-1/4 feet."[1]

Ventilated Spaces Defined as: "Where a refrigerating system or a part thereof is located within an air handler, an air distribution duct system, or an occupied space served by a mechanical ventilation system, the entire air distribution system shall be analyzed to determine the smallest volume area."[1]

Closure Closures (i.e., motorized dampers) in the air distribution system shall be considered. If one or more spaces of a ducted system can be closed off from the source of the refrigerant leak, the volume(s) shall not be used in the calculation.[1]

Closure exceptions include smoke and fire dampers or combinations thereof that shut in an emergency and are not associated with a refrigerant leak, and dampers where airflow is never reduced below 10% of its maximum with the fan running.

Plenums The volume of the supply and return ducts and plenums shall be included when calculating the refrigerant quantity limit in the system."[1]

Supply/Return Ducts The volume of the supply and return ducts and plenums shall be included when calculating the refrigerant quantity limit in the system."[1]

Follow these steps to calculate the potential refrigerant concentration level:

1. Measure the occupied space dimensions (in feet).
2. Calculate the cubic foot volume of air in the smallest occupied space.
3. Divide the refrigerant charge of the Multi V system serving the area in pounds by the results of step 1.
4. If the calculation indicates that the potential refrigerant concentration level is higher than the allowed RCL, increase the cubic volume of the smallest occupied space or modify the piping system design.
5. The allowable RCL limit for most applications must be equal to or less than 0.025 lbs./ft^3. However, in special occupied spaces, such as hospitals and nursing homes, where occupants may have limited mobility, the allowable RCL limit is cut in half. See ASHRAE Standard 34-2007 and local codes for detailed information.[1]

$$\text{RCL (lbs./ft}^3\text{)} = \frac{\text{System refrigerant charge (lbs.)}}{\text{Volume of smallest occupied space (ft}^3\text{)}}$$

To determine the volume of an occupied space, the designer must determine which ones are connected, not connected, or ventilated. Refer to Standard 34-2007 for help.

If the calculated RCL is above the allowable limit, there are two primary methods used to lower the RCL:

1. Increase the volume of the occupied space.
2. Decrease the size of the refrigerant charge.

Per Standard 34-2007, acceptable methods used to increase the volume of an occupied space include:

- Install transfer ducts between rooms.
- Undercut doors.
- Include ventilation grilles in doors.
- Include the area above the ceiling as part of the return or supply air path.

[1]*American Society of Heating, Refrigeration and Air Conditioning Engineers, Inc. (ASHRAE) Standard 34-2007. Atlanta, GA. ASHRAE, Inc.*

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ASHRAE STANDARDS SUMMARY

ASHRAE Standard 62.1-2010

ASHRAE 62.1-2010—Ventilation for Acceptable Indoor Air Quality

During the past twenty years, publications have documented the occupant's well being, productivity, and comfort is significantly impacted if the building is not properly ventilated. Providing ventilation air directly and significantly increases a building's overall electric consumption and operating costs. In an effort to reduce medical and legal costs as well as the cost associated with personnel turnover, companies and human resource personnel today consider the lease premium associated with tempering and cleaning ventilation air relatively insignificant.[1,2]

Standard 62.1-2010 is known as the Indoor Air Quality (IAQ) Performance Standard. The Standard documents key strategies for maintaining minimum IAQ, including limiting the introduction of potential contaminants into the occupied areas originating from indoor and outdoor sources. The Standard also addresses the proper introduction of ventilation (outdoor) air into the building using two methods:

1. The Ventilation Rate Procedure (VRP) is a prescriptive approach that sets minimum design requirements when sizing the building's ventilation equipment including:
   - Outdoor air quality requirements.
   - Treatment procedures used if the outdoor air is deemed contaminated.
   - Volume of outdoor air that must be introduced to the occupied areas of commercial, institutional, vehicular, industrial, and residential buildings.

2. IAQ compliance procedures:
   The Standard, under section 6.3, allows the designer to significantly reduce the ventilation air volume required using the VRP procedure when high-efficiency air filtration products designed to remove particulate and gas phase contaminates are specified. This procedure is a performance-based design approach where the indoor air quality in the occupied areas is actively monitored using sensing devices. When the IAQ falls below specified levels, the volume of outside air introduced into the building is modified.[2]

There are three methods used for ventilating buildings:

1. Mechanical "active" ventilation.
2. Natural "passive" ventilation.
3. Mixed-mode "active and passive" ventilation.

The intent of this discussion is to provide guidance for the designer when applying active mechanical ventilation methods in conjunction with Multi V variable refrigerant flow equipment. Multi V indoor units are designed for quiet operation and room air recirculation. Inherently, quiet fans cannot produce a significant amount of static pressure. Thus, Multi V indoor units do not have the capability to "draw" ventilation air. Ventilation air must be "pushed" to the indoor unit. In all designs, the outside air must be introduced using a separate fan that is specifically designed for the task.

There are three methods to mechanically introduce outside air into individually occupied areas and rooms. When considering which method to use, the designer should choose a design that minimizes potential maintenance costs and operational problems.

Method 1: Decoupled Ventilation Air: This is the preferred method to use with all LG air conditioning products. From a common outside air inlet, filter and pre-treat the air temperature to room neutral conditions, and duct the ventilation air to the ceiling or wall registers in each breathing zone. Use this method when cost and operational problems are a priority. It can be used in all applications and in conjunction with any type of Multi V indoor unit. When using Method 1 and the outside air pre-treatment device experiences component failure due to filtering, heating, or cooling, the occupant will readily notice the resulting untreated air and can notify the building engineer of the problem. More importantly, the failure is less likely to impact the Multi V system.

[1]USGBC. 2009. Green Building Design & Construction. Washington, DC. USGBC Staff.
[2]Amercian Society of Heating, Refrigeration and Air Conditioning Engineers, Inc. (ASHRAE) 62.1-2010.

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Method 2: Coupled Pre-Treated Ventilation Air: From a common outside air inlet, filter and pre-treat the air temperature to room neutral conditions, and duct the ventilation air to the ceiling cassette or recessed-ducted Multi V indoor units. Multi V indoor units are designed for quiet operation and room air recirculation. Inherently, quiet fans cannot produce a significant amount of static pressure. Thus, Multi V indoor units do not have the capability to "draw" ventilation air. Ventilation air must be "pushed" to the indoor unit. Also, in the event the ventilation air is outside the indoor unit design parameters and the return and ventilation air streams fail to mix properly before entering the indoor unit coil, air stratification may occur causing erratic behavior of the Multi V indoor unit.

Operationally, the designer must consider many "what if" failure scenarios and understand the impact on building HVAC system operations. Negative building pressure conditions may impact the indoor unit fan's ability to pass the proper amount of air over the indoor unit coil. This could occur if the ventilation system supply fan is disabled or ventilation dampers malfunction while the building exhaust fans continue to operate. In this case, the indoor unit coil may be starved for air as negative static pressure builds at the inlet of the indoor unit. On the other hand, when using non-ducted indoor unit models in conjunction with a constant flow of ventilation air and the Multi V indoor unit supply air volume is reduced below the ventilation air volume (the space temperature is satisfied), the ventilation air may flow backwards through the filter media and return air grille. Captured particulate from the filter media may discharge into the room.

Method 3: Introduce Untreated Ventilation Air: From an outside air opening, duct filtered, untreated ventilation air to Multi V indoor units. This method can be employed in limited regions of the country where year-round ambient conditions and air quality would provide the indoor unit mixed air within LG's published acceptable conditions. Refer to "Building Ventilation" on pages 191-193 for more information.

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BUILDING SUSTAINABILITY

USGBC—LEED Green Building Rating System

For decades, commercial building financial performance criteria influenced architects and engineers to focus on lowering the cost of construction. The trade-off for lower first-cost was higher electric consumption and poor indoor air quality. In recent years, with the advent of exploding fossil fuel costs and record litigation settlements related to poor indoor air quality, many designers have responded by adopting a new, more balanced design approach recognizing that designing with a long-term perspective emphasizing first-cost, life-cycle cost, and the impact the development has on the environment will increase the building's value.

The American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) and the U.S. Green Building Council (USGBC) have been instrumental in developing and documenting voluntary best practice standards that provide the construction industry an all encompassing balanced approach for developing cost effective buildings.

USGBC, a private organization, has developed holistic design Standards for developing new and retrofitting existing buildings known as LEED® — Leadership in Energy and Environmental Design. The LEED Green Building Rating System is a voluntary, consensus-based program for developing high-performance buildings. Based on well-founded scientific Standards, LEED emphasizes state-of-the-art strategies for responsible site development, conservation of certain utilities, and a guide for selecting construction materials that are manufactured to promote indoor environmental quality.

Table 86: LEED Green Building Certification Designations.

LEED 2009 Rating System	New Construction, Major Renovations Core & Shell, and Schools[1]	Existing Buildings Operations and Maintenance[2]	Commercial Interiors[3]
Certified	40–49 points	40–49 points	40–49 points
Silver	50–59 points	50–59 points	50–59 points
Gold	60–79 points	60–79 points	60–79 points
Platinum	80 points and above	80 points and above	80 points and above

LEED® is a registered trademark of the U.S. Green Building Council.

[1]LEED Reference Guide for Green Building Design and Construction—2009 Edition.

[2]LEED Reference Guide for Green Building Operations and Maintenance—2009 Edition.

[3]LEED Reference Guide for Green Interior Design and Construction—2009 Edition.

Products Developed for the LEED® Generation

The Multi V variable refrigerant flow air conditioning system delivers state-of-the-art performance making it easier for the design team to earn certain LEED points.. Choosing LG Multi V in lieu of traditional technologies, such as chillers and gas boilers, to heat and cool the building can have a positive impact on the design team's pursuit of the LEED credits listed in Table 89.

Note:

Each LEED credit typically relates to numerous building design variables and building system parameters that as a whole allows the credit to be earned and no one product including LG can guarantee credits.

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Table 87: Potential LEED Points Using LG Multi V.

Category	Point ID	Certification Paths								Point Description
		New Construction & Major Renovations	Core and Shell Development	Schools New Construction and Major Renovations	Commercial Interiors	Retail: Commercial Interiors	Retail: New Construction and Major Renovations	Existing Buildings: Operations & Maintenance	Healthcare: New Construction and Renovation	
EA	PR-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Fundamental Commissioning of Building Energy Systems
EA	PR-3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Fundamental Refrigerant Management - Refrigerant has no CFCs (R410A)
EA	CR-1	1-19	3-21	1-19			1-19	1-18	1-24	Optimize Energy Performance
EA	CR-1.3				5-10	5-10				Optimize Energy Performance - HVAC
EA	CR-2				5	5				Enhanced Commissioning
EA	CR-2.3							2		Existing Building - Ongoing Commissioning
EA	CR-3	2	2	2			2		1-2	Enhanced Commissioning
EA	CR-3				2-5	2-5				Measurement and Verification
EA	CR-3.1							1		Performance Measurement - Building Automation
EA	CR-3.2							1-2		Performance Measurement - System Level Metering
EA	CR-4	2	2	1			2		1	Enhanced Refrigerant Management
EA	CR-5							1		Enhanced Refrigerant Management
EA	CR-5	3		2			3		2	Measurement and Verification
EA	CR-5.1		3							Measurement and Verification - Base Building
EA	CR-5.2		3							Measurement and Verification - Tenant Submetering
MR	CR-1.1	1-3		1-2			1-3		1-3	Building Reuse - Maintain Exterior Walls, Floor, Roof
MR	CR-1		1-5							Building Reuse - Maintain Exterior Walls, Floor, Roof
MR	CR-1.2	1		1	1-2	1-2	1		1	Building Reuse - Maintain Interior Nonstructural Components
IEQ	PR-2			Yes						Minimum Acoustical Performance
IEQ	CR-2.3							1		Occupant Comfort - Thermal Comfort Monitoring
IEQ	CR-6		1			1	1			Controllability of Systems - Thermal Comfort
IEQ	CR-6.2	1		1	1				1	Controllability of Systems - Thermal Comfort
IEQ	CR-7		1						1	Thermal Comfort - Design
IEQ	CR-7.1	1		1	1	1	1			Thermal Comfort - Design
IEQ	CR-7.2	1		1	1	1	1			Thermal Comfort - Verification
IEQ	CR-9			1						Enhanced Acoustical Performance
IEQ	CR-10			1						Mold Prevention
ID	CR-1	1-5	1-5	1-4	1-5	1-5	1-5	1-4	1-4	Innovation in Design

EA = Energy and Atmosphere.
MR = Materials and Resources.
IEQ = Indoor Environmental Quality.
PR = Prerequisite.
CR =Credit.
ID = Innovation and Design Process.

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MECHANICAL SPECIFICATIONS

VRF Multi V III Heat Pump and Heat Recovery Outdoor Units

General

LG Multi V III Variable Refrigerant Flow (VRF) comprises of a Heat Pump system or a Heat Recovery System with a single, dual or triple frame outdoor unit connected to indoor units with a single refrigerant piping system connectable using factory designed and supplied Y-branches and Headers, and having integrated controls.

An LG Multi V III Heat pump system is a VRF system that can operate in either cooling or heating mode, whereas an LG Multi V III Heat Recovery system is a VRF system that can operate in either heating or cooling mode simultaneously. The Heat Recovery unit is capable of being designed for minimum piping and maximum design flexibility. Every indoor unit or zone of Heat Recovery systems shall be independently capable of operating in either heating or cooling mode regardless of the mode of other indoor units. The system shall be capable of changing mode of individual indoor units or zones (cooling to heating or heating to cooling) within a maximum time of three (3) minutes to ensure indoor temperature can be properly maintained.

LG components are manufactured in a facility registered to ISO 9001 and ISO 14001, which is a set of standards applying to environmental protection set by the International Organization for Standardization (ISO). The units are listed by Intertek Electrical Testing Laboratories (ETL) and bear the ETL label. Wiring in these units are in accordance with the National Electrical Code (NEC).

Temperature Ranges

Heat Pump Systems

Heat Pump units can operate in heating only mode from -4°F to +60°F ambient wet bulb without additional low ambient controls.

Heat Pump units can operate in cooling only mode from 23°F to +115°F ambient dry bulb.

Heat Recovery Systems

Heat Recovery units can operate in heating only mode from -4°F to +60°F ambient wet bulb without additional low ambient controls. During heating-based simultaneous mode, the system can operate at outdoor ambient temperatures from 14°F to 60°F wet bulb.

Heat Recovery units for cooling-only mode operate from 23°F to 115°F dry bulb. During cooling-based synchronous mode, the system can operate from 14°F to 81°F ambient dry bulb.

Casing / Frame

Heat Pump and Heat Recovery outdoor units are constructed with galvanized steel, bonderized and finished with powder coat baked enamel paint. Each frame has a removable inspection panel no greater than six (6) inches tall and twelve (12) inches wide to allow access to service tool connection, dip switches, auto addressing and error codes.

Outdoor unit frames are completely factory assembled, piped and wired. Dual and triple frame outdoor units need to be field piped with factory designed and supplied Y-branch kits to manifold them together into a single refrigerant circuit.

Refrigerant System

The refrigeration system consists of a single refrigeration circuit and uses R410A refrigerant. The outdoor unit is provided with factory installed components, including a refrigerant strainer, check valves, oil separator, accumulator, hot gas bypass valve, liquid injection valve, four-way reversing valve, electronic controlled expansion valve (EEV), high and low side charging ports, high pressure safety switch, service valves, and interconnecting piping. Also included is an integral subcooler assembly consisting of a double spiral tube-type subcooling heat exchanger and EEV providing refrigerant subcooling modulation up to 23ºF.

Refrigeration Oil Control

Heat Pump and Heat Recovery outdoor units have a centrifugal oil separator for each compressor and controls to ensure sufficient oil supply is maintained, and that oil does not travel with the refrigerant.

Compressors

All 3-phase outdoor unit frames ≤80MBh are equipped with one hermetic digitally controlled inverter driven scroll compressor to modulate capacity (variable from 20 to 120Hz, modulate in 1 Hz increments). All 3 phase outdoor unit frames ≥80MBh nominal capacity are equipped with one digitally controlled inverter-driven hermetic scroll compressor to modulate capacity (variable from 20 to 120Hz, modulate in 1 Hz increments), and one constant speed hermetic scroll compressor. A internal thermal overload and a factory-mounted 60 watt crankcase heater is included on all compressors.

Outdoor Unit Coil

Heat Pump and Heat Recovery outdoor unit coils are of a nonferrous construction with louvered fins on copper tubing, and are protected with an integral metal guard. Coil fins have a factory applied corrosion resistant GoldFin™ material with hydrophilic coating.

Fans and Motors

All outdoor unit frames <80MBh include one direct drive, variable speed propeller type fan. All outdoor unit frames >80MBh include two direct drives, variable speed propeller type fans.

All fan motors have inherent protection, permanently lubricated bearings, and are variable speed with a maximum speed up to 1,050 rpm. Raised guards are provided to limit contact with moving parts.

All Heat Pump and Heat Recovery outdoor units have vertical discharge airflow. Optional factory-provided air guides can be field installed to change discharge airflow from vertical to horizontal.

Outdoor units have a static pressure capability up to 0.32" WG with dip switch to accommodate additional external static pressure.

Electrical

Both Heat Pump and Heat Recovery outdoor units are available in choice of 208-230V 60 Hz, 3-phase or 460V, 60 Hz, 3-phase power supply. The units are capable of operating within voltage limits of ±10% rated voltage, and include overcurrent protection.

Controls

Heat Pump and Heat Recovery outdoor units are factory wired with necessary electrical control components, integral microprocessors, printed circuit boards, thermistors, sensors, terminal blocks, and lugs for power wiring.

The control circuit between the indoor units, heat recovery unit (Multi V III Heat Recovery units only) and the outdoor unit is a 24VDC completed using a two-conductor, stranded, and shielded cable for the RS-485 daisy chain communication.

Microprocessor-based algorithms provide component protection, soft-start capability, refrigeration system pressure, temperature, defrost, and ambient control.

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MECHANICAL SPECIFICATIONS

Multi V III Heat Recovery Units

General

Multi V III Heat Recovery units are for use with Multi V III Heat Recovery outdoor units to permit simultaneous heating and cooling operation.

Heat Recovery units have two (2), three (3), or four (4) ports for connections to indoor units. Each port is capable of connecting from one (1) indoor unit up to eight (8) indoor units up to a maximum nominal capacity of ≤48MBh. Individual indoor units ≥48MBh nominal capacity must use two (2) neighboring heat recovery unit ports twinned together with a Y-branch kit.

Heat Recovery ports can operate in heating or cooling mode independently, regardless of the mode of any other port on the unit or in the system except where Heat Recovery units are twinned.

Casing and Construction

Heat Recovery units are completely factory assembled, internally piped, wired, and are designed for indoor installation. Casing is constructed of galvanized steel, and houses piping, valves and controls to divert refrigerant controlling each port to operate in either heating or cooling mode. Heat Recovery units contain one double spiral subcooling heat exchanger per port, are internally insulated, and do not require a condensate drain.

Refrigerant Valves

Each Heat Recovery port is circuited with two two-position solenoid valves to control R410A refrigerant flow path. Optional isolation valves can be field supplied and installed for ease of service to the Heat Recovery unit without evacuating the entire system refrigerant charge.

Refrigerant System

Heat Recovery units require R410A refrigerant. The units can be piped in series or parallel to minimize material cost and labor. Up to 16 Heat Recovery units can be piped in series as long as the total indoor unit nominal capacity does not exceed 192MBh. Other piping length parameters include:

- Indoor units up to 131 equivalent feet of piping length from the Heat Recovery unit to which it is connected.
- Indoor units up to 295 equivalent feet of piping length from the first branch.
- Indoor units cannot exceed 49 feet in elevation above or below the Heat Recovery unit.
- Elevation difference between the highest and lowest elevation indoor unit cannot exceed 49 feet.
- Elevation difference between the highest and lowest elevation heat recovery unit cannot exceed 49 feet.
- Elevation difference between the highest and lowest elevation indoor unit and/or heat recovery unit cannot exceed 49 feet.

All refrigerant lines from the outdoor unit to the Heat Recovery units, and from the Heat Recovery units to the indoor units must be field insulated.

Electrical

Heat Recovery units require 208-230V, 1-phase, 60 Hz electrical power, and are capable of operation within ±10% of nominal voltage.

Controls

Heat Recovery units include factory installed control boards and integral microprocessors that communicate with the main control board in the outdoor unit and interface with the VRF equipment controls system. The control circuit between the indoor units, Heat Recovery unit, and the outdoor unit must be 24VDC using a two-conductor, stranded and shielded cable for the RS-485 daisy chain communication.

Two-port Heat Recovery Unit.



Three-port Heat Recovery Unit.



Four-port Heat Recovery Unit.



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ACRONYMS

Table 88: Table of Acronyms.

%OA	Percentage Outdoor Air	IEQ	Indoor Environmental Quality (LEED Related)
%RA	Percentage Return Air	IUCF	Indoor Unit Correction Factor
ABS	Acrylonitrile Butadiene Styrene	KTL	Korea Testing Laboratories
AC	Air Conditioner	LEED	Leadership in Energy and Environmental Design
ACP	Advanced Control Platform	LGAP	LG Air Condtioner Protocol
ARI	Air Conditioning and Refrigeration Institute	MAT	Mixed Air Temperature
ASHRAE	American Society of Heating, Refrigeration, and Air Conditioning	MBh	Thousands BTUs per hour
AHU	Air Handling Unit	MCA	Maximum Circuit Ampacity
AWG	American Wire Gauge	MFS	Maximum Fuel Size
BLDC	Brushless Digitally Controlled	MR	Materials and Resources (LEED Related)
Btu/h	British Thermal Units per hour	NC	New Construction (LEED Related)
CCR	Corrected Capacity Ratio		Normally Closed
CDOA	Coupled Dedicated Outdoor Air	NEC	National Electrical Code
CFM	Cubic Feet per Minute	NO	Normally Open
CI	Commercial Interiors (LEED® Related)	OAT	Outdoor Air Temperature
COP	Coefficient Of Performance	O&M	Existing Building Operations and Maintenance (LEED Related)
CR	Combination Ratio	ODU	Outdoor Unit
CR	Credit (LEED Related)	OUCF	Outdoor Unit Correction Factor
CS	Core and Shell (LEED Related)	PDI	Power Distribution Integrator
DB	Dry Bulb	PI	Power Input
dB(A)	Decibels with “A” frequency weighting	PR	Prerequisite (LEED Related)
DDOAS	Decoupled Dedicated Outdoor Air	PTAC	Packaged Terminal Air Conditioner
DI	Digital Input	PVE	Polyvinyl Ether
DO	Digital Output	RAT	Return Air Temperature
EA	Energy and Atmosphere (LEED Related)	RCL	Refrigerant Concentration Limit
EEV	Electronic Expansion Valve	RP	Regional Priority (LEED Related)
ELF	Equivalent Length in Feet	RUR	Running Unit Ratio
EPDM	Ethylene Propylene Diene M-Class Rubber	K12	K-12 Schools (LEED Related)
ESP	External Static Pressure	USGBC	U.S. Green Building Council (LEED Related)
ETL	Electronic Testing Laboratories	VAH	Vertical Air Handler
HACR	Heating, Air Conditioning, and Refrigeration	VAV	Variable Air Volume
H/M/L	High/Medium/Low	VRF	Variable Refrigerant Flow
IAQ	Indoor Air Quality	VRP	Ventilation Rate Procedure
ID	Innovations in Design (LEED Related)	WE	Water Efficiency (LEED Related)
IDU	Indoor Unit		

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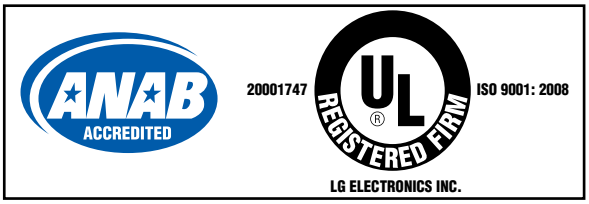
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