



Submittal Data Sheet

14-Ton VRV-III Heat Pump Unit

RXYQ168PBYD

FEATURES

- Extended operating range with the ability to operate at outdoor ambient conditions down to -4°F in heating and 23°F in cooling mode
- Fans and grilles designed for low sound level and efficient operation
- Long refrigerant piping lengths with up to 3,280 ft. of total “one-way” piping in the complete piping network
- Automatic charge function
- Automatic check of wiring, shut off valves, sensors and refrigerant volume
- Automatic diagnose of errors and malfunctions to speed up troubleshooting
- Standard Limited Warranty: 10-year warranty on compressor and all parts

BENEFITS

- Can operate up to 62 indoor units on a single piping network
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Very low sound levels allows flexibility in layout of systems
- Modular and lightweight - enables flexibility in system layout and installation
- DC fan motors improves efficiency, especially at low fan speed
- Fans and grilles designed for low sound level and efficient operation



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PERFORMANCE

Outdoor Unit Model No.	RXYQ168PBYD	Outdoor Unit Name:	14-Ton VRV-III Heat Pump Unit
Type:	Heat Pump	Unit Combination:	RXYQ72PBYD + RXYQ96PBYD
Rated Cooling Capacity (Btu/hr):	160,000	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Nom Cooling Capacity (Btu/hr):		Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 70 Ambient (°F DB/WB): 47 / 43
Cooling Input Power (kW):	13.22	Rated Piping Length(ft):	
Rated Heating Capacity (Btu/hr):	180,000	Rated Height Difference (ft):	0.00
Nom Heating Capacity (Btu/hr):		IEER (Non-Ducted/Ducted):	22.00 / 22.00
Heating Input Power (kW):	14.26	Heating COP (Non-Ducted/Ducted):	4.0 / 3.7
		Heating COP 17F (Non-Ducted/Ducted):	2.7 / 2.5

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Type	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	9 - 100
Min. Circuit Amps MCA (A):	16+21	Capacity Index Limit:	84.0 - 218.0
Max Overcurrent Protection (MOP) (A):	20+25	Airflow Rate (H) (CFM):	6,350+8,230
Max Starting Current MSC(A):	69.00	Gas Pipe Connection (inch):	1-1/8
Rated Load Amps RLA(A):	7.1 +3.9 + 8.4	Liquid Pipe Connection (inch):	5/8
Dimensions (Height) (in):	66-1/8	H/L Pressure Connection (inch)	
Dimensions (Width) (in):	85-1/2	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-1/8	Sound Pressure (H) (dBA):	62
Net Weight (lb):	433+633	Sound Power Level (dBA):	
		Max. No. of Indoor Units:	29



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SYSTEM DETAILS

Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	16.5+21.4	Heating Operation Range (°F WB):	0 - 77
Additional Charge (lb/ft):		Max. Pipe Length (Vertical) (ft):	295
Pre-charge Piping (Length) (ft):		Cooling Range w/Baffle (°F DB):	-
Max. Pipe Length (Total) (ft):	540	Heating Range w/Baffle (°F WB):	4 - 60
Max Height Separation (Ind to Ind ft):	0		

DIMENSIONAL DRAWING

