



Submittal Data Sheet

12 Ton, 575V, VRV IV X HP

RXYQ144XAYCA

FEATURES

- Industry first 3 phase Heat Pump VRF system to integrate with communicating gas furnaces.
- Design flexibility to enlarge system from single to dual module or dual to triple module without changes to installed main pipe sizes.
- Engineered with Daikin vapor injection compressor for optimized part load efficiencies.
- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat pump systems
- New service window provides quick access to multi-functional display and configuration buttons.
- Assembled in the US to increase flexibility and reduce lead times
- Multi-functional display provides refrigerant pressures and temperatures eliminating the need to connect gauges during regular maintenance check.
- Standard Limited Warranty: 10-year limited parts warranty
- Easy commissioning with ability to program settings off site using configurator tool.

BENEFITS

- Modular and lightweight - enables flexibility in system layout and installation
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Corrosion resistance 1000hr salt spray tested Daikin PE blue fin heat exchanger
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Choice of gas furnace or heat pump heating for optimizing operational costs based on utility cost.
- Engineered to optimize capital on phased & tenant fit out commercial buildings.
- Year round comfort and energy savings with Variable Refrigerant Temperature technology (VRT).
- Field performable Intermittent outdoor fan operation to help minimize snow accumulation on fan blades when the system is off.



VRV VRV





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PERFORMANCE

Outdoor Unit Model No.	RXYQ144XAYCA	Outdoor Unit Name:	12 Ton, 575V, VRV IV X HP
Type:	Heat Pump	Unit Combination:	
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):			
Rated Height Difference (ft):			
Rated Cooling Capacity (Btu/hr):	138,000	Rated Heating Capacity (Btu/hr):	154,000
Nom Cooling Capacity (Btu/hr):	144,000	Nom Heating Capacity (Btu/hr):	162,000
Cooling Input Power (kW):	11.80	Heating Input Power (kW):	11.70
EER (Non-Ducted/Ducted):	11.50 / 10.80	Heating COP (Non-Ducted/Ducted):	3.8 / 3.5
IEER (Non-Ducted/Ducted):	22.20 / 18.20	Heating COP 17F (Non-Ducted/Ducted):	2.2 / 2.1

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	575 / 60 / 3	Compressor Stage:	
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	10 - 100
Min. Circuit Amps MCA (A):	22.3	Capacity Index Limit:	72.0 - 187.0
Max Overcurrent Protection (MOP) (A):	30	Airflow Rate (H) (CFM):	9480
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-1/8
Rated Load Amps RLA(A):	16	Liquid Pipe Connection (inch):	1/2
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	
Dimensions (Width) (in):	48-7/8	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-3/16	Sound Pressure (H) (dBA):	66
Net Weight (lb):	793	Sound Power Level (dBA):	87
		Max. No. of Indoor Units:	25

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SYSTEM DETAILS

Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	25.8	Heating Operation Range (°F WB):	-13 - 60
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):	3,280		
Max Height Separation (Ind to Ind ft):			

DIMENSIONAL DRAWING

