



## Submittal Data Sheet

8 Ton, 575V, VRV IV X HP

RXYQ96XAYCA

### 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.           | RXYQ96XAYCA                                               | Outdoor Unit Name:                   | 8 Ton, 575V, VRV IV X HP                                  |
| Type:                            | Heat Pump                                                 | Unit Combination:                    |                                                           |
| Rated Cooling Conditions:        | Indoor (°F DB/WB): 80 / 67<br>Ambient (°F DB/WB): 95 / 75 | Rated Heating Conditions:            | Indoor (°F DB/WB): 70 / 60<br>Ambient (°F DB/WB): 47 / 43 |
| Rated Piping Length(ft):         |                                                           |                                      |                                                           |
| Rated Height Difference (ft):    |                                                           |                                      |                                                           |
| Rated Cooling Capacity (Btu/hr): | 92,000                                                    | Rated Heating Capacity (Btu/hr):     | 103,000                                                   |
| Nom Cooling Capacity (Btu/hr):   | 96,000                                                    | Nom Heating Capacity (Btu/hr):       | 108,000                                                   |
| Cooling Input Power (kW):        | 6.64                                                      | Heating Input Power (kW):            | 6.75                                                      |
| EER (Non-Ducted/Ducted):         | 13.60 / 11.40                                             | Heating COP (Non-Ducted/Ducted):     | 4.3 / 3.6                                                 |
| IEER (Non-Ducted/Ducted):        | 24.30 / 18.90                                             | Heating COP 17F (Non-Ducted/Ducted): | 2.7 / 2.3                                                 |

OUTDOOR UNIT DETAILS

|                                       |                   |                                  |              |
|---------------------------------------|-------------------|----------------------------------|--------------|
| Power Supply (V/Hz/Ph):               | 575 / 60 / 3      | Compressor Stage:                |              |
| Power Supply Connections:             | L1, L2, L3 Ground | Capacity Control Range (%):      | 13 - 100     |
| Min. Circuit Amps MCA (A):            | 16.8              | Capacity Index Limit:            | 48.0 - 124.0 |
| Max Overcurrent Protection (MOP) (A): | 20                | Airflow Rate (H) (CFM):          | 7989         |
| Max Starting Current MSC(A):          |                   | Gas Pipe Connection (inch):      | 7/8          |
| Rated Load Amps RLA(A):               | 10.2              | Liquid Pipe Connection (inch):   | 3/8          |
| 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):        | 65           |
| Net Weight (lb):                      | 727               | Sound Power Level (dBA):         | 80           |
|                                       |                   | Max. No. of Indoor Units:        | 16           |

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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**

