



Submittal Data Sheet

30-Ton VRV-III Heat Pump Unit

RXYQ360PBYD

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. | RXYQ360PBYD | Outdoor Unit Name: | 30-Ton VRV-III Heat Pump Unit |
| Type: | Heat Pump | Unit Combination: | RXYQ120PBYD(x3) |
| Rated Cooling Capacity (Btu/hr): | 342,000 | 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): | 31.67 | Rated Piping Length(ft): | |
| Rated Heating Capacity (Btu/hr): | 385,000 | Rated Height Difference (ft): | 0.00 |
| Nom Heating Capacity (Btu/hr): | | IEER (Non-Ducted/Ducted): | 15.10 / 15.10 |
| Heating Input Power (kW): | 35.26 | Heating COP (Non-Ducted/Ducted): | 3.5 / 3.2 |
| | | Heating COP 17F (Non-Ducted/Ducted): | 2.4 / 2.3 |

OUTDOOR UNIT DETAILS

| | | | |
|---------------------------------------|-------------------|----------------------------------|-------------------|
| Power Supply (V/Hz/Ph): | 460 / 60 / 3 | Compressor Type | Inverter |
| Power Supply Connections: | L1, L2, L3 Ground | Capacity Control Range (%): | 5 - 100 |
| Min. Circuit Amps MCA (A): | 21+ 21+ 21 | Capacity Index Limit: | 180.0 - 468.0 |
| Max Overcurrent Protection (MOP) (A): | 25+25+ 25 | Airflow Rate (H) (CFM): | 8,230+8,230+8,230 |
| Max Starting Current MSC(A): | 90.00 | Gas Pipe Connection (inch): | 1-5/8 |
| Rated Load Amps RLA(A): | (5.4+8.4) x 3 | Liquid Pipe Connection (inch): | 3/4 |
| Dimensions (Height) (in): | 66-1/8 | H/L Pressure Connection (inch) | |
| Dimensions (Width) (in): | 146-5/8 | H/L Equalizing Connection (inch) | |
| Dimensions (Depth) (in): | 30-1/8 | Sound Pressure (H) (dBA): | 65 |
| Net Weight (lb): | 633+633+633 | Sound Power Level (dBA): | |
| | | Max. No. of Indoor Units: | 62 |

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SYSTEM DETAILS

| | | | |
|--|----------------|-----------------------------------|----------|
| Refrigerant Type: | R-410A | Cooling Operation Range (°F DB): | 23 - 122 |
| Holding Refrigerant Charge (lbs): | 22.1+22.1+22.1 | 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

