



## Submittal Data Sheet

12-Ton VRV-WIII Heat Pump Unit

RWEYQ144PTJU

### FEATURES

- Compact lightweight casing (Height: 39-3/8", Weight: 330 lbs.) allows flexibility in system layout and installation
- Modular - can be installed in double-decker style if needed
- Larger single system capacity ensures wider application range for satisfying floor-by-floor loads of commercial buildings
- Modular and flexible - 7 combinations of condensing unit, up to 21-ton serving up to 32 indoor units
- Continuous operation allows for cold climate capability delivering comfortable heating performance with no defrost
- Operates with closed loop cooling tower, dry cooler, boiler, and geothermal solutions for optimum flexibility in system layout
- Standard Limited Warranty: 10-year warranty on compressor and all parts

### BENEFITS

- Connects to the full suite of advanced Daikin Control Solutions including I-Touch Controller and I-Touch Manager for complete system control
- BMS flexibility with integration capabilities to Open Protocol Building Management Systems via the Daikin BACnet® and LonWorks® interfaces
- Flexible piping layout - up to 980 feet of pipe (390 feet max. linear liquid piping length) and 164 feet height difference
- Maximum system diversity with up to 130% connectivity of nominal capacity
- Flexibility with optimum water flow rates per module of 16 gpm or greater (operable range 13.2 ~ 39.5 gpm).
- The advanced, self-diagnostic, auto-check function will detect a malfunction and immediately display the type and location so it can be resolved quickly and effectively.



VRV-WIII

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**PERFORMANCE**

|                                  |              |                                      |   |
|----------------------------------|--------------|--------------------------------------|---|
| Outdoor Unit Model No.           | RWEYQ144PTJU | Outdoor Unit Name:                   | 12-Ton VRV-WIII Heat Pump Unit                            |
| Type:                            | Heat Pump    | Unit Combination:                    | RWEYQ72PTJU(x2)   |
| Rated Cooling Capacity (Btu/hr): | 138,000      | Rated Cooling Conditions:            | Indoor (°F DB/WB): 81 / 66<br>Ambient (°F DB/WB): 95 / 75 |
| Nom Cooling Capacity (Btu/hr):   |              | Rated Heating Conditions:            | Indoor (°F DB/WB): 68 / 68<br>Ambient (°F DB/WB): 47 / 43 |
| Cooling Input Power (kW):        | 8.40         | Rated Piping Length(ft):             |   |
| Rated Heating Capacity (Btu/hr): | 154,000      | Rated Height Difference (ft):        | 0.00  |
| Heating Input Power (kW):        | 8.00         | IEER (Non-Ducted/Ducted):            | 23.70 / 23.70   |
| Nom Heating Capacity (Btu/hr):   |              | Heating COP 17F (Non-Ducted/Ducted): | /   |
|                                  |              | Heating COP (Non-Ducted/Ducted):     | 5.0 / 5.0   |

**OUTDOOR UNIT DETAILS**

|                                       |                            |                                 |          |
|---------------------------------------|----------------------------|---------------------------------|----------|
| Power Supply (V/Hz/Ph):               | 208-230 / 60 / 3           | Compressor Type                 | Inverter |
| Power Supply Connections:             | L1, L2, L3 Ground          | Gas Pipe Connection (in):       | 1-1/8    |
| Min. Circuit Amps MCA (A):            | 22.4 + 22.4                | Liquid Pipe Connection (in):    | 1/2      |
| Max Overcurrent Protection (MOP) (A): | 40 + 40                    | H/L Pressure Connection (in):   |          |
| Max Starting Current MSC(A):          |                            | H/L Equalizing Connection (in): |          |
| Rated Load Amps RLA(A):               | 11.6 + 11.6                | Water Inlet Connection (in):    | 1-1/4    |
| Dimensions (HxWxD) (in):              | 39-3/8 x 62-1/4 x 21-11/16 | Water Outlet Connection (in):   | 1-1/4    |
| Net Weight (lb):                      | 330+330                    | Condensate Drain Outlet (in):   | 1/2      |
| Capacity Control Range (%):           | 11 - 100                   | Sound Pressure (H) (dBA):       | 53       |
| Capacity Index Limit (Btu/hr):        | 72 - 187                   | Sound Power Level (dBA):        |          |
| Unit Heat Rejection (kW):             | 1.28                       | Max. No. of Indoor Units:       | 20       |



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### SYSTEM DETAILS

|  |         |  |          |
|--|---------|--|----------|
| Refrigerant Type:                      | R-410A  | Cooling Operation Range (°F DB):               | 35 - 104 |
| Holding Refrigerant Charge (lbs):      | 9.9+9.9 | Heating Operation Range (°F WB):               | 35 - 104 |
| Additional Charge (lb/ft):             |         | Max. Pipe Length (Vertical) (ft):              | 164      |
| Pre-charge Piping (Length) (ft):       |         | Cooling Inlet Water Temp (Standard) (°F DB):   | 59 / 113 |
| Max. Pipe Length (Total) (ft):         | 390     | Heating Inlet Water Temp (Standard) (°F WB):   | 50 / 113 |
| Max Height Separation (Ind to Ind ft): | 0       | Cooling Inlet Water Temp (Geothermal) (°F DB): | /        |
| Water Flow Range (GPM):                | 13 - 40 | Heating Inlet Water Temp (Geothermal) (°F WB): | /        |

## DIMENSIONAL DRAWING

