



Submittal Data Sheet

12-ton VRV T-series WC HP 460V

RWEQ144TBYDA

FEATURES

- Wide capacity range with single modules of 6, 8, 10 and 12 tons and systems up to 36 tons for a more flexible system design
- Year round comfort and energy efficiency by combining VRV and VRT technologies
- Compact casing (Height: 38-9/16 in Width: 30-1/8 in Depth: 22-1/16 in) allows flexibility in system layout and installation
- Engineered with heat rejection cancellation technology to minimize mechanical room conditioning requirements
- Variable water flow control logic as standard to increase waterside system operational efficiencies
- Operates with closed loop cooling tower, dry cooler, boiler, and geothermal solutions for optimum flexibility in system layout
- New configurator software designed to simplify the commissioning and maintenance of the system
- 3-digit 7-segment digital display on the unit for improved and faster configuration, commissioning, and troubleshooting
- Compatible with P series or T series branch selector boxes
- Standard Limited Warranty: 10-year limited parts warranty



BENEFITS

- Maximum system diversity with up to 150% connectivity of nominal capacity
- Continuous operation allows for cold climate capability delivering comfortable heating performance with no defrost operation
- Design flexibility with long piping lengths up to 980 ft. total (540 ft. max. linear liquid piping length) and 100 ft. vertical separation between indoor units
- Modular - can be installed in double or triple-stack style to maximize space saving
- Refrigerant cooled inverter technology enables consistent and reliable PCB operation
- Developed for easy installation and service: field selectable top or front refrigerant connections and drop-down electrical box for easy service to key components
- Connects to the full suite of advanced Daikin Control Solutions including I-Touch Controller and I-Touch Manager for complete system control



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PERFORMANCE

| | | | |
|----------------------------------|--------------|--------------------------------------|--|
| Outdoor Unit Model No. | RWEQ144TBYDA | Outdoor Unit Name: | 12-ton VRV T-series WC HP 460V |
| Type: | Heat Pump | Unit Combination: | |
| Rated Cooling Capacity (Btu/hr): | 138,000 | Rated Cooling Conditions: | Indoor (°F DB/WB): 80.6 / 66.2 EWT (°F): 86 |
| Nom Cooling Capacity (Btu/hr): | 144,000 | Rated Heating Conditions: | Indoor (°F DB/WB): 68 / 59 EWT (°F): 68 |
| Cooling Input Power (kW): | | Rated Piping Length(ft): | |
| Rated Heating Capacity (Btu/hr): | 138,000 | Rated Height Difference (ft): | |
| Heating Input Power (kW): | | IEER (Non-Ducted/Ducted): | 19.00 / 16.10 |
| Nom Heating Capacity (Btu/hr): | 162,000 | Heating COP 17F (Non-Ducted/Ducted): | / |
| | | Heating COP (Non-Ducted/Ducted): | 5.2 / 5.0 |

OUTDOOR UNIT DETAILS

| | | | |
|---------------------------------------|----------------------------|-------------------------------|----------|
| Power Supply (V/Hz/Ph): | 460 / 60 / 3 | Compressor Stage: | Inverter |
| Power Supply Connections: | L1, L2, L3, Ground | Gas Pipe Connection (in): | 1-1/8 |
| Min. Circuit Amps MCA (A): | 23.8 | Liquid Pipe Connection (in): | 1/2 |
| Max Overcurrent Protection (MOP) (A): | 25 | | |
| Max Starting Current MSC(A): | | | |
| Rated Load Amps RLA(A): | 13.3 | Water Inlet Connection (in): | 1-1/4 |
| Dimensions (HxWxD) (in): | 38-9/16 x 30-1/8 x 22-1/16 | Water Outlet Connection (in): | 1-1/4 |
| Net Weight (lb): | 445.3 | Condensate Drain Outlet (in): | 3/8 |
| Capacity Control Range (%): | 11-100 | Sound Pressure (H) (dBA): | 61 |
| Capacity Index Limit (Btu/hr): | - | Sound Power Level (dBA): | |
| Unit Heat Rejection (kW): | | Max. No. of Indoor Units: | 24 |

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SYSTEM DETAILS

| | | | |
|--|--------|--|------|
| Refrigerant Type: | R-410A | Cooling Operation Range (°F DB): | - |
| Holding Refrigerant Charge (lbs): | 21.2 | | |
| Additional Charge (oz/ft): | | Max. Pipe Length (Vertical) (ft): | 164 |
| Pre-charge Piping (Length) (ft): | | Cooling Inlet Water Temp (Standard) (°F DB): | / 86 |
| Max. Pipe Length (Total) (ft): | 540 | Heating Inlet Water Temp (Standard) (°F WB): | / 68 |
| Max Height Separation (Ind to Ind ft): | 98 | Cooling Inlet Water Temp (Geothermal) (°F DB): | / |
| Water Flow Range (GPM): | - | Heating Inlet Water Temp (Geothermal) (°F WB): | / |

DIMENSIONAL DRAWING

