



Submittal Data Sheet

12-Ton VRV-WIII Heat Pump Unit

RWEYQ144PYDN

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.	RWEYQ144PYDN	Outdoor Unit Name:	12-Ton VRV-WIII Heat Pump Unit
Type:	Heat Pump	Unit Combination:	RWEYQ72PYDN(x2)
Rated Cooling Capacity (Btu/hr):	138,000	Rated Cooling Conditions:	Indoor (°F DB/WB): 81 / 66 Ambient (°F DB/WB): 95 / 75
Nom Cooling Capacity (Btu/hr):		Rated Heating Conditions:	Indoor (°F DB/WB): 68 / 68 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):	460 / 60 / 3	Compressor Type	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Gas Pipe Connection (in):	1-1/8
Min. Circuit Amps MCA (A):	10.2 + 10.2	Liquid Pipe Connection (in):	1/2
Max Overcurrent Protection (MOP) (A):	15 + 15	H/L Pressure Connection (in):	
Max Starting Current MSC(A):		H/L Equalizing Connection (in):	
Rated Load Amps RLA(A):	5.3 + 5.3	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):	343+343	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

