Submittal Data Sheet

12-Ton VRV-III Heat Pump Unit - RXYQ144PBTJ

Project: PORTLAND WATER DISTRICT

Submitted by: David Chadwick of F W WEBB CO on 4/20/2016

Submitted to: No Engineer Name Specified

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/13/16

PERFORMANCE

Outdoor Unit Model No.	RXYQ144PBTJ	Outdoor Unit Name:	12-Ton VRV-III Heat Pump Unit
Type:	Heat Pump	Unit Combination:	
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 70 Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):			
Rated Height Difference (ft):	0.00		
Rated Cooling Capacity (Btu/hr):	138,000	Rated Heating Capacity (Btu/hr):	154,000
Nom Cooling Capacity (Btu/hr):		Nom Heating Capacity (Btu/hr):	
Cooling Input Power (kW):	12.21	Heating Input Power (kW):	13.27
EER (Non-Ducted/Ducted):	11.30 / 11.30	Heating COP (Non-Ducted/Ducted):	3.6 / 3.4
IEER (Non-Ducted/Ducted):	20.50 / 20.50	Heating COP 17F (Non-Ducted/Ducted):	2.6 / 2.5

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 3	Compressor Type	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	10 - 100
Min. Circuit Amps MCA (A):	72.20	Capacity Index Limit:	72.0 - 187.0
Max Overcurrent Protection (MOP) (A):		Airflow Rate (H) (CFM):	8,300
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-1/8
Rated Load Amps RLA(A):	14.3 + 14.3	Liquid Pipe Connection (inch):	1/2
Dimensions (Height) (in):	66-1/8	H/L Pressure Connection (inch)	
Dimensions (Width) (in):	51-3/16	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-1/8	Sound Pressure (H) (dBA):	62
Net Weight (lb):	747	Sound Power Level (dBA):	
		Max. No. of Indoor Units:	25

(Daikin's products are subject to continuous improvements. Daikin reserves the right to modify product design, specifications and information in this data sheet without notice and without incurring any obligations)

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SYSTEM DETAILS			
Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	24.5	Heating Operation Range (°F WB):	
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

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Submittal Data Sheet

12-Ton VRV-IV Heat Pump Unit - 230V - RXYQ144TTJU

Project: PORTLAND WATER DISTRICT

Submitted by: David Chadwick of F W WEBB CO on 4/20/2016

Submitted to: No Engineer Name Specified

FEATURES

- 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
- Same product structure for 230V and 460V simplifies ordering
- The rated seasonal cooling efficiency has been improved by an average of 11% compared to VRV III
- Improved efficiency with IEER values now up to 28
- Larger capacity single modules ranging up to 14 tons and systems up to 34 tons allow for a more flexible system design
- New configurator software designed to simplify the commissioning and maintenance of the system
- Larger capacity single modules allow for opportunity to reduce electrical connections, piping connections and outdoor unit mounting fixtures
- System wide auto-climate adjustment technology to increase the energy efficiency
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Assembled in the US to increase flexibility and reduce lead times
- Standard Limited Warranty: 10-year warranty on compressor and all parts
- Factory standard coil guards

BENEFITS

- 3 row 7mm heat exchanger coil improves efficiency
- Inverter control board cooled by refrigerant to avoid influence from abient temperatures
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area / efficiency
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and trouble shooting.

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