

Submittal Data Sheet

10-Ton VRV-IV Heat Pump Unit - 460V RXYQ120TYDN

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

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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PERFORMANCE			
Outdoor Unit Model No.	RXYQ120TYDN	Outdoor Unit Name:	10-Ton VRV-IV Heat Pump Unit - 460V
Туре:	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):	114,000	Rated Heating Capacity (Btu/hr):	129,000
Nom Cooling Capacity (Btu/hr):		Nom Heating Capacity (Btu/hr):	
Cooling Input Power (kW):	9.00	Heating Input Power (kW):	9.92
EER (Non-Ducted/Ducted):	13.20 / 12.10	Heating COP (Non-Ducted/Ducted):	3.8 / 3.5
IEER (Non-Ducted/Ducted):	23.50 / 21.40	Heating COP 17F (Non-Ducted/Ducted):	2.6 / 2.6

OUTDOOR UNIT DETAILS Power Supply (V/Hz/Ph): 460 / 60 / 3 Compressor Type Inverter L1, L2, L3 Ground 20 - 100 Power Supply Connections: Capacity Control Range (%): Min. Circuit Amps MCA (A): 20.6 Capacity Index Limit: 60.0 - 156.0 Max Overcurrent Protection (MOP) (A): 25.00 Airflow Rate (H) (CFM): 6.286 Max Starting Current MSC(A): Gas Pipe Connection (inch): 1-1/8 Rated Load Amps RLA(A): 11.7 Liquid Pipe Connection (inch): 1/2 66-11/16 Dimensions (Height) (in): H/L Pressure Connection (inch) Dimensions (Width) (in): H/L Equalizing Connection (inch) 48-7/8 Dimensions (Depth) (in): 30-3/16 Sound Pressure (H) (dBA): 61 Net Weight (lb): 556 Sound Power Level (dBA): Max. No. of Indoor Units: 20

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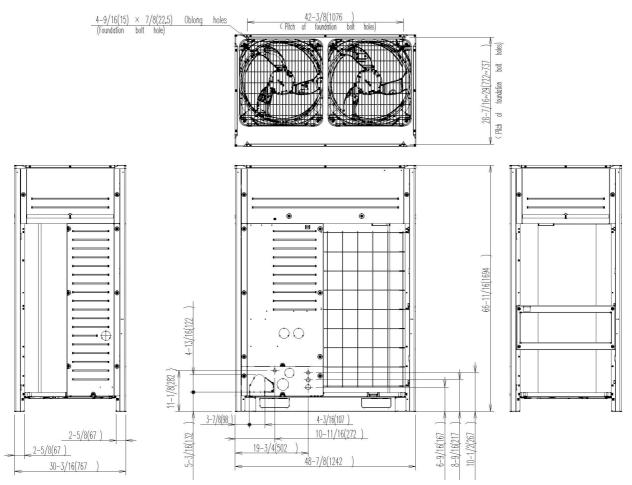


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SYSTEM DETAILS			
Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	22.9	Heating Operation Range (°F WB):	-4 - 60
Additional Charge (lb/ft):		Max. Pipe Length (Vertical) (ft):	295
Pre-charge Piping (Length) (ft):		Cooling Range w/Baffle (°F DB):	-
Max. Pipe Length (Total) (ft):	540	Heating Range w/Baffle (°F WB):	-
Max Height Separation (Ind to Ind ft):	0		

DIMENSIONAL DRAWING



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