



Submittal Data Sheet

38-Ton VRV-IV Heat Recovery Unit - 460V

REYQ456TYDN

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 recovery systems
- Improved efficiency with IEER values now up to 29.3
- Can provide heating down to -13°F WB as standard
- Larger capacity single modules ranging up to 14 tons and systems up to 38 tons allow for a more flexible system design, when compared to VRV III
- New configurator software designed to simplify the commissioning and maintenance of the system
- Standard Limited Warranty: 10-year warranty on compressor and all parts
- Larger capacity single modules allow for opportunity to reduce electrical connections, piping connections and outdoor unit mounting fixtures
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Assembled in the US to increase flexibility and reduce lead times

BENEFITS

- Can operate up to 64 indoor units on a single piping network
- Inverter control board cooled by refrigerant to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area/efficiency
- Continuous heating during defrost and oil return allows constant comfort control
- Modular and lightweight - enables flexibility in system layout and installation
- Ultra gold fin coating with a salt spray test rating of 1000 hours provides superior corrosion resistance for applications near seacoasts and other corrosive environments
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and troubleshooting.





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PERFORMANCE

Outdoor Unit Model No.	REYQ456TYDN	Outdoor Unit Name:	38-Ton VRV-IV Heat Recovery Unit - 460V
Type:	Heat Recovery	Unit Combination:	REYQ144TYDN(x2) + REYQ168TYDN
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 /	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):			
Rated Height Difference (ft):			
Rated Cooling Capacity (Btu/hr):	415,000	Rated Heating Capacity (Btu/hr):	435,000
Nom Cooling Capacity (Btu/hr):	456,000	Nom Heating Capacity (Btu/hr):	513,000
Cooling Input Power (kW):	48.90	Heating Input Power (kW):	51.00
EER (Non-Ducted/Ducted):	9.50 / 9.50	Heating COP (Non-Ducted/Ducted):	3.2 / 3.2
IEER (Non-Ducted/Ducted):	16.20 / 15.90	Heating COP 17F (Non-Ducted/Ducted):	2.1 / 2.1
		SCHE (Non-Ducted/Ducted):	20.90 / 17.90

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Type	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	3 - 100
Min. Circuit Amps MCA (A):	31.9+31.9+36.1	Capacity Index Limit:	-
Max Overcurrent Protection (MOP) (A):	40+40+40	Airflow Rate (H) (CFM):	8228+8228+8228
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-5/8
Rated Load Amps RLA(A):	(7.3+10.3)x2+(7.9+11.1)	Liquid Pipe Connection (inch):	3/4
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	1-3/8
Dimensions (Width) (in):	146-5/8	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-3/16	Sound Pressure () (dBA):	
Net Weight (lb):	794+794+794	Sound Power Level (dBA):	
		Max. No. of Indoor Units:	64



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SYSTEM DETAILS

Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	25.8+25.8+25.8	Heating Operation Range (°F WB):	-13 - 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):			

DIMENSIONAL DRAWING

