

## **Submittal Data Sheet**

14-Ton VRV-IV Heat Recovery Unit - 460V REYQ168TYDN

## **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
- 3 row 7mm heat exchanger coil improves efficiency
- 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
- 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.	REYQ168TYDN	Outdoor Unit Name:	14-Ton VRV-IV Heat Recovery Unit - 460V
Туре:	Heat Recovery	Unit Combination:	
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):	156,000	Rated Heating Capacity (Btu/hr):	176,000
Nom Cooling Capacity (Btu/hr):	168,000	Nom Heating Capacity (Btu/hr):	188,000
Cooling Input Power (kW):	13.90	Heating Input Power (kW):	16.90
EER (Non-Ducted/Ducted):	11.70 / 11.30	Heating COP (Non-Ducted/Ducted):	3.8 / 3.3
IEER (Non-Ducted/Ducted):	22.00 / 19.50	Heating COP 17F (Non-Ducted/Ducted):	2.3 / 2.2
		SCHE (Non-Ducted/Ducted):	26.60 / 22.80

OUTDOOR UNIT DETAILS			
Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Type	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	10 - 100
Min. Circuit Amps MCA (A):	36.10	Capacity Index Limit:	-
Max Overcurrent Protection (MOP) (A):	40.00	Airflow Rate (H) (CFM):	8228
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-1/8
Rated Load Amps RLA(A):	7.9+11.1	Liquid Pipe Connection (inch):	5/8
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	7/8
Dimensions (Width) (in):	48-7/8	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-3/16	Sound Pressure (H) (dBA):	65
Net Weight (Ib):	794	Sound Power Level (dBA):	86
		Max. No. of Indoor Units:	29

Daikin North America LLC, 5151 San Felipe, Suite 500, Houston, TX, 77056

www.daikinac.com www.daikincomfort.com

(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)

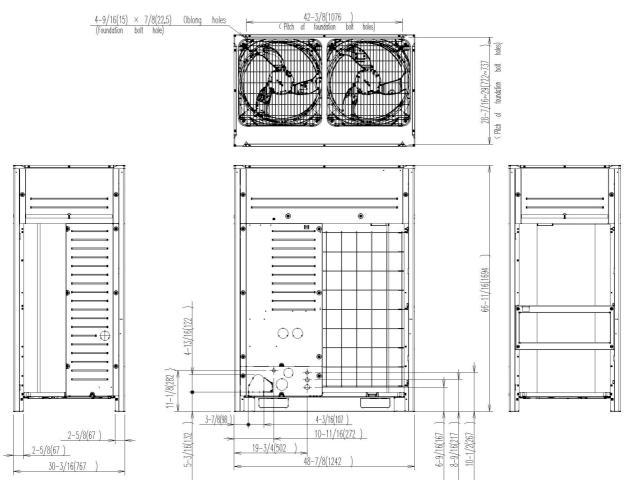


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SYSTEM DETAILS			
Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	25.8	Heating Operation Range (°F WB):	-13 - 60
Additional Charge (lb/ft):		Max. Pipe Length (Vertical) (ft):	295
Pre-charge Piping (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**



Daikin City Generated Submittal Data

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