

Submittal Data Sheet

12 Ton, 460V VRV AURORA HR RELQ144TBYDA

FEATURES

- VRF Industry's first air cooled system that delivers heating down to -22°F (-30°C) as standard
- Daikin's inverter based vapor injection compressor delivers high heating capacity of up to 100% of nominal at 0°F (-18°C), up to 85% of nominal at -13°F (-25°C) and up to 60% of nominal at -22°F (-30°C)
- Refrigerant-cooled efficient and stable inverter board operation, independent of ambient conditions
- Added peace of mind with Auto Changeover ability to back up (auxiliary) heat
- Year round comfort and energy efficiency delivered by combining VRV and VRT technologies
- Available in 6, 8, 10 ton single modules and 12, 16, 20 ton multimodule systems
- Compatible with the VRV-IV T-series Branch Selector Boxes
- Seamless connection to all VRV M, P and T series indoor and air processing units
- Ships factory standard with coil guards
- Assembled in the US to increase flexibility and reduce lead times
- Standard Limited Warranty: 10-year limited parts warranty

BENEFITS

- Refrigerant cooled inverted technology allows installation without an additional drain pan heater
- Designed and optimized for Total Cost of Construction (TCC) and reduced Life Cycle Cost (LCC)
- Modular and lightweight enables flexibility in system layout and installation
- Engineered with Daikin's inverter based vapor injection compressor for optimized part load efficiency
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area / efficiency
- Corrosion resistant, 1000 hours salt spray tested Daikin PE blue fin heat exchanger
- Long pipe lengths up to 1640 ft total and ability to connect up to 25 indoor units with up to 98 ft vertical separation between indoor units provides design and installation flexibility
- Digital display on the unit for improved and faster configuration, commissioning, and troubleshooting





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PERFORMANCE

Outdoor Unit Model No.	RELQ144TBYDA	Outdoor Unit Name:	12 Ton, 460V VRV AURORA HR
Туре:	Heat Recovery	Unit Combination:	RELQ72TBYDA(x2)
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):			
Rated Height Difference (ft):			
Rated Cooling Capacity (Btu/hr):	138,000	Rated Heating Capacity (Btu/hr):	138,000
Nom Cooling Capacity (Btu/hr):	144,000	Nom Heating Capacity (Btu/hr):	162,000
Cooling Input Power (kW):		Heating Input Power (kW):	
EER (Non-Ducted/Ducted):	11.40 / 10.70	Heating COP (Non-Ducted/Ducted):	3.6 / 3.5
IEER (Non-Ducted/Ducted):	19.00 / 16.80	Heating COP 17F (Non- Ducted/Ducted):	2.1 / 2.1
		SCHE (Non-Ducted/Ducted):	19.80 / 17.50

OUTDOOR UNIT DETAILS				
Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Stage:	Inverter	
Power Supply Connections:	L1, L2, L3, Ground	Capacity Control Range (%):	5 - 100	
Min. Circuit Amps MCA (A):	28.1 + 28.1	Capacity Index Limit:	-	
Max Overcurrent Protection (MOP) (A):	35 + 35	Airflow Rate (H) (CFM):	7283	
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-1/8	
Rated Load Amps RLA(A):		Liquid Pipe Connection (inch):	1/2	
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	7/8	
Dimensions (Width) (in):	48-7/8			
Dimensions (Depth) (in):	30-3/16	Sound Pressure (H) (dBA):	63	
Net Weight (lb):	727 + 727	Sound Power Level (dBA):		
		Max. No. of Indoor Units:	25	

Daikin North America LLC, 19001 Kermier Rd, Waller, TX 77484

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)

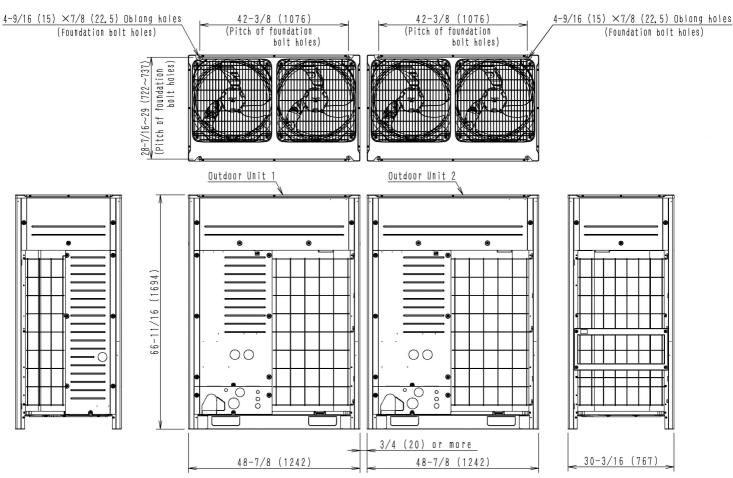


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SYSTEM DETAILS Refrigerant Type: R-410A Cooling Operation Range (°F DB): 23 - 122 25.8 -22 - 60 Holding Refrigerant Charge (lbs): Heating Operation Range (°F WB): Additional Charge (oz/ft): Max. Pipe Length (Vertical) (ft): 164 Cooling Range w/Baffle (°F DB): Pre-charge Piping (Length) (ft): Max. Pipe Length (Total) (ft): 1640 Max Height Separation (Ind to Ind ft): 98

DIMENSIONAL DRAWING



Daikin City Generated Submittal Data

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