



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 multi-module 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
Type:	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

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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):	-22 - 60
Additional Charge (oz/ft):		Max. Pipe Length (Vertical) (ft):	164
Pre-charge Piping (Length) (ft):		Cooling Range w/Baffle (°F DB):	-
Max. Pipe Length (Total) (ft):	1640		
Max Height Separation (Ind to Ind ft):	98		

DIMENSIONAL DRAWING

