



Submittal Data Sheet

12 Ton, 575V VRV Aurora HR

RELQ144TBYCA

FEATURES

- First air cooled VRV system to deliver heating down to -22°F (-30°C) as a standard
- 575V inverter based on Daikin's patented vapor injection compressor delivers high heating capacity 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)
- Efficient and stable inverter board operation that is independent of ambient conditions
- Ability for Auto changeover 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
- Factory standard 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 additional drain pan heater
- Designed and optimized for Total Cost of Construction (TCC) and reduced Life Cycle Cost (LCC)
- Can operate up to 12 indoor units on a single piping network
- Modular and lightweight - enables flexibility in system layout and installation
- Engineered with 575V inverter based Daikin vapor injection compressor to delivery optimized part load efficiency
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area / efficiency
- Corrosion resistance 1000hr salt spray tested Daikin PE blue fin heat exchanger
- Design for installation flexibility of piping lengths up to 1,640 ft. total and 98 ft. vertical separation between indoor units
- Digital display on the unit for improved and faster configuration, commissioning, and trouble shooting



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PERFORMANCE

Outdoor Unit Model No.	RELQ144TBYCA	Outdoor Unit Name:	12 Ton, 575V VRV Aurora HR
Type:	Heat Recovery	Unit Combination:	RELQ72TBYCA(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):	575 / 60 / 3	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, L3, Ground	Capacity Control Range (%):	5 - 100
Min. Circuit Amps MCA (A):	21.6 + 21.6	Capacity Index Limit:	-
Max Overcurrent Protection (MOP) (A):	25 + 25	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 - 110
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

