



Submittal Data Sheet

10 Ton, 575V VRV Aurora HR

RELQ120TBYCA

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 s
- 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





Submittal Data Sheet
10 Ton, 575V VRV Aurora HR
RELQ120TBYCA

PERFORMANCE

Outdoor Unit Model No.	RELQ120TBYCA	Outdoor Unit Name:	10 Ton, 575V VRV Aurora HR
Type:	Heat Recovery	Unit Combination:	
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):	114,000	Rated Heating Capacity (Btu/hr):	114,000
Nom Cooling Capacity (Btu/hr):	119,000	Nom Heating Capacity (Btu/hr):	135,000
Cooling Input Power (kW):		Heating Input Power (kW):	
EER (Non-Ducted/Ducted):	10.80 / 10.30	Heating COP (Non-Ducted/Ducted):	3.5 / 3.5
IEER (Non-Ducted/Ducted):	18.00 / 16.80	Heating COP 17F (Non-Ducted/Ducted):	2.3 / 2.3
		SCHE (Non-Ducted/Ducted):	19.60 / 13.30

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	575 / 60 / 3	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, L3, Ground	Capacity Control Range (%):	12 - 100
Min. Circuit Amps MCA (A):	31.2	Capacity Index Limit:	-
Max Overcurrent Protection (MOP) (A):	40	Airflow Rate (H) (CFM):	8806
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)	3/4
Dimensions (Width) (in):	48-7/8		
Dimensions (Depth) (in):	30-3/16	Sound Pressure (H) (dBA):	64
Net Weight (lb):	793	Sound Power Level (dBA):	
		Max. No. of Indoor Units:	20

Submittal Data Sheet
10 Ton, 575V VRV Aurora HR
RELQ120TBYCA

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

