



## Submittal Data Sheet

8 Ton, 460V VRV AURORA HR

RELQ96TBYDA

### 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 16 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.           | RELQ96TBYDA                                               | Outdoor Unit Name:                   | 8 Ton, 460V VRV AURORA HR                                 |
| Type:                            | Heat Recovery                                             | Unit Combination:                    |                                                           |
| Rated Cooling Conditions:        | Indoor (°F DB/WB): 80 / 67<br>Ambient (°F DB/WB): 95 / 75 | Rated Heating Conditions:            | Indoor (°F DB/WB): 70 / 60<br>Ambient (°F DB/WB): 47 / 43 |
| Rated Piping Length(ft):         |                                                           |                                      |                                                           |
| Rated Height Difference (ft):    |                                                           |                                      |                                                           |
| Rated Cooling Capacity (Btu/hr): | 92,000                                                    | Rated Heating Capacity (Btu/hr):     | 92,000                                                    |
| Nom Cooling Capacity (Btu/hr):   | 96,000                                                    | Nom Heating Capacity (Btu/hr):       | 108,000                                                   |
| Cooling Input Power (kW):        |                                                           | Heating Input Power (kW):            |                                                           |
| EER (Non-Ducted/Ducted):         | 11.00 / 10.70                                             | Heating COP (Non-Ducted/Ducted):     | 3.5 / 3.3                                                 |
| IEER (Non-Ducted/Ducted):        | 18.50 / 16.70                                             | Heating COP 17F (Non-Ducted/Ducted): | 2.3 / 2.3                                                 |
|                                  |                                                           | SCHE (Non-Ducted/Ducted):            | 19.40 / 13.00                                             |

OUTDOOR UNIT DETAILS

|                                       |                    |                                |          |
|---------------------------------------|--------------------|--------------------------------|----------|
| Power Supply (V/Hz/Ph):               | 460 / 60 / 3       | Compressor Stage:              | Inverter |
| Power Supply Connections:             | L1, L2, L3, Ground | Capacity Control Range (%):    | 13 - 100 |
| Min. Circuit Amps MCA (A):            | 39.8               | Capacity Index Limit:          | -        |
| Max Overcurrent Protection (MOP) (A): | 45                 | Airflow Rate (H) (CFM):        | 7989     |
| Max Starting Current MSC(A):          |                    | Gas Pipe Connection (inch):    | 7/8      |
| Rated Load Amps RLA(A):               |                    | Liquid Pipe Connection (inch): | 3/8      |
| 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):      | 61       |
| Net Weight (lb):                      | 793                | Sound Power Level (dBA):       |          |
|                                       |                    | Max. No. of Indoor Units:      | 16       |

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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**

