



## Submittal Data Sheet

26-Ton VRV-IV Heat Recovery Unit - 460V

REYQ312TYDN

### FEATURES

- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat recovery systems
- Improved efficiency with IEER values now up to 29.3
- Can provide heating down to -13°F WB as standard
- Larger capacity single modules ranging up to 14 tons and systems up to 38 tons allow for a more flexible system design, when compared to VRV III
- New configurator software designed to simplify the commissioning and maintenance of the system
- Standard Limited Warranty: 10-year warranty on compressor and all parts
- Larger capacity single modules allow for opportunity to reduce electrical connections, piping connections and outdoor unit mounting fixtures
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Assembled in the US to increase flexibility and reduce lead times

### BENEFITS

- Can operate up to 64 indoor units on a single piping network
- Inverter control board cooled by refrigerant to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area/efficiency
- Continuous heating during defrost and oil return allows constant comfort control
- Modular and lightweight - enables flexibility in system layout and installation
- Ultra gold fin coating with a salt spray test rating of 1000 hours provides superior corrosion resistance for applications near seacoasts and other corrosive environments
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and troubleshooting.





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### PERFORMANCE

|                                  |  |                                      |  |
|----------------------------------|--|--------------------------------------|--|
| Outdoor Unit Model No.           | REYQ312TYDN  | Outdoor Unit Name:                   | 26-Ton VRV-IV Heat Recovery Unit - 460V                |
| Type:                            | Heat Recovery  | Unit Combination:                    |  |
| Rated Cooling Conditions:        | Indoor (°F DB/WB): 80 / 67<br>Ambient (°F DB/WB): 95 / | Rated Heating Conditions:            | Indoor (°F DB/WB): 70 /<br>Ambient (°F DB/WB): 47 / 43 |
| Rated Piping Length(ft):         |  |                                      |  |
| Rated Height Difference (ft):    |  |                                      |  |
| Rated Cooling Capacity (Btu/hr): | 290,000  | Rated Heating Capacity (Btu/hr):     | 326,000  |
| Nom Cooling Capacity (Btu/hr):   | 312,000  | Nom Heating Capacity (Btu/hr):       | 351,000  |
| Cooling Input Power (kW):        | 26.70  | Heating Input Power (kW):            | 32.10  |
| EER (Non-Ducted/Ducted):         | 11.30 / 10.60  | Heating COP (Non-Ducted/Ducted):     | 3.6 / 3.2  |
| IEER (Non-Ducted/Ducted):        | 20.20 / 17.80  | Heating COP 17F (Non-Ducted/Ducted): | 2.4 / 2.2  |
|                                  |  | SCHE (Non-Ducted/Ducted):            | 23.60 / 20.30  |

### OUTDOOR UNIT DETAILS

|                                       |                       |                                  |           |
|---------------------------------------|-----------------------|----------------------------------|-----------|
| Power Supply (V/Hz/Ph):               | 460 / 60 / 3          | Compressor Type                  | Inverter  |
| Power Supply Connections:             | L1, L2, L3 Ground     | Capacity Control Range (%):      | 5 - 100   |
| Min. Circuit Amps MCA (A):            | 31.9+36.1             | Capacity Index Limit:            | -         |
| Max Overcurrent Protection (MOP) (A): | 40+40                 | Airflow Rate (H) (CFM):          | 8228+8228 |
| Max Starting Current MSC(A):          |                       | Gas Pipe Connection (inch):      | 1-3/8     |
| Rated Load Amps RLA(A):               | (7.3+10.3)+(7.9+11.1) | Liquid Pipe Connection (inch):   | 3/4       |
| Dimensions (Height) (in):             | 66-11/16              | H/L Pressure Connection (inch)   | 1-1/8     |
| Dimensions (Width) (in):              | 97-3/4                | H/L Equalizing Connection (inch) |           |
| Dimensions (Depth) (in):              | 30-3/16               | Sound Pressure ( ) (dBA):        |           |
| Net Weight (lb):                      | 794+794               | Sound Power Level (dBA):         |           |
|                                       |                       | Max. No. of Indoor Units:        | 54        |



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### SYSTEM DETAILS

|  |           |                                   |          |
|--|-----------|-----------------------------------|----------|
| Refrigerant Type:                      | R-410A    | Cooling Operation Range (°F DB):  | 23 - 122 |
| Holding Refrigerant Charge (lbs):      | 25.8+25.8 | Heating Operation Range (°F WB):  | -13 - 60 |
| Additional Charge (lb/ft):             |           | Max. Pipe Length (Vertical) (ft): | 295      |
| Pre-charge Piping (Length) (ft):       |           | Cooling Range w/Baffle (°F DB):   | -        |
| Max. Pipe Length (Total) (ft):         | 540       | Heating Range w/Baffle (°F WB):   | -        |
| Max Height Separation (Ind to Ind ft): |           |                                   |          |

### DIMENSIONAL DRAWING

