



## Submittal Data Sheet

12 Ton, 460V R32 EMERION HR  
REYA144AAYDA

### FEATURES

- Low ambient cooling operation down to -4°F (-20°C) with a field setting and the addition of wind covers onto the outdoor unit
- Expanded Heating operation down to -22°F as standard
- New improved D4 net provides faster communication speeds and larger data volume compared to the D3 net up to 30 times the amount of data compared to D3 net
- Reduced install and commissioning time through auto addressing feature with D4 communications protocol
- R-32 system with lower Global Warming Potential (GWP), provides improved efficiency compared to R410A and requires lower total system charge
- Increased energy savings through new improved VRT technology with evaporation temperature control at each indoor unit (BS or SSOV required)
- New remote field setting option that allows data retrieval and field setting changes of units on the system from anywhere, without the need for physical access to each room
- New field setting that allows reuse of R410A piping network for new R32 system, eliminating need to replace for retrofit applications
- Seven segment display to read refrigerant temperatures and pressure on digital display
- Vertical separation up to 361 FT with field setting
- Ease of field piping connections to service valves
- Continuous heating during defrost capability with single module (16 T - 20 T) and all dual module systems
- Hot gas defrost circuit allows for installation without base pan heater
- High dust and moisture protection with an IP55 rated sealed E-box
- Design flexibility to enlarge system from single to a dual-module without changes to installed main pipe sizes for phased installation or tenant fit-out buildings
- Built-in data recorder to store up to 45 minutes of operational data
- Integrates with new Daikin HERO ecosystem, an IoT based remote monitoring and diagnostics platform
- Engineered for ease of installation and service with three-segment panel design
- Extend benefits of inverter technology to custom terminal units and AHUs through AHU integration kits





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### PERFORMANCE

|                                         |                                                           |                                          |                                                           |
|-----------------------------------------|-----------------------------------------------------------|------------------------------------------|-----------------------------------------------------------|
| Outdoor Unit Model No.                  | REYA144AAYDA                                              | Outdoor Unit Name:                       | 12 Ton, 460V R32 EMERION HR                               |
| Type:                                   | Heat Recovery                                             | Rated Heating Conditions:                | Indoor (°F DB/WB): 70 / 60<br>Ambient (°F DB/WB): 47 / 43 |
| Rated Cooling Conditions:               | Indoor (°F DB/WB): 80 / 67<br>Ambient (°F DB/WB): 95 / 75 | Rated Heating Capacity (Btu/hr):         | 138,000                                                   |
| Rated Cooling Capacity (Btu/hr):        | 138,000                                                   | Nom Heating Capacity (Btu/hr):           | 162,000                                                   |
| Nom Cooling Capacity (Btu/hr):          | 144,000                                                   | Heating COP (Non-Ducted/Ducted):         | 3.30/3.35                                                 |
| EER (Non-Ducted/Ducted):                | 11.20/11                                                  | Heating COP 17F (Non-Ducted/<br>Ducted): | 2.10/2.10                                                 |
| IEER (Non-Ducted/Ducted):               | 22.7/19.70                                                | SCHE (Non-Ducted/Ducted):                | 19.60/15.00                                               |
| Heating COP 5F (Non-Ducted/<br>Ducted): | 1.96/1.91*                                                |                                          |                                                           |

\* 5F COP is provided for reference only

### OUTDOOR UNIT DETAILS

|                                          |                   |                                |          |
|------------------------------------------|-------------------|--------------------------------|----------|
| Power Supply (V/Hz/Ph):                  | 460 / 60 / 3      | Compressor Stage:              | INVERTER |
| Power Supply Connections:                | L1, L2, L3 GROUND | Capacity Control Range (%):    | 3 - 100  |
| Min. Circuit Amps MCA (A):               | 23.3              | Airflow Rate (H) (CFM):        | 9675     |
| Max Overcurrent Protection (MOP)<br>(A): | 30                | Gas Pipe Connection (inch):    | 1-1/8    |
| Dimensions (Height) (in):                | 65-3/8            | Liquid Pipe Connection (inch): | 1/2      |
| Dimensions (Width) (in):                 | 48-13/16          | H/L Pressure Connection (inch) | 3/4      |
| Dimensions (Depth) (in):                 | 30-1/8            | Sound Pressure (H) (dBA):      | 65       |
| Net Weight (lb):                         | 840               | Sound Power Level (dB):        | 85       |

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## **SYSTEM DETAILS**

|                                        |                                        |                                   |          |
|----------------------------------------|----------------------------------------|-----------------------------------|----------|
| Refrigerant Type:                      | R-32                                   | Cooling Operation Range (°F DB):  | 23 - 122 |
| Holding Refrigerant Charge (lbs):      | 25.8                                   | Heating Operation Range (°F WB):  | -22 - 60 |
| Additional Charge (oz/ft):             | Check Install manual or selection tool | Max. Pipe Length (Vertical) (ft): | 361      |
| Max. Pipe Length (Total) (ft):         | 3,280                                  | Cooling Range w/Baffle (°F DB):   | -4 - 122 |
| Max Height Separation (Ind to Ind ft): | 98                                     |                                   |          |

## **DIMENSIONAL DRAWING**

