



Submittal Data Sheet

20 Ton, 460V, R32 EMERION HP
RXYA240AAYDA

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 (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
- Seven segment display to read refrigerant temperatures and pressure on digital display
- Vertical separation up to 361 FT with field setting
- New field setting that allows reuse of R410Aa piping network for new R32 system, eliminating need to replace for retrofit applications
- Hot gas defrost circuit allows for installation without base pan heater
- High dust 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
- Engineered for ease of installation and service with three-segment panel design
- Ease of field piping connections to service valves
- 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
- Extend benefits of inverter technology to custom terminal units and AHUs through AHU integration kits





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PERFORMANCE

Outdoor Unit Model No.	RXYA240AAYDA	Outdoor Unit Name:	20 Ton, 460V, R32 EMERION HP
Type:	Heat Pump	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75	Rated Heating Capacity (Btu/hr):	220,000
Rated Cooling Capacity (Btu/hr):	228,000	Nom Heating Capacity (Btu/hr):	270,000
Nom Cooling Capacity (Btu/hr):	238,000	Heating COP (Non-Ducted/Ducted):	3.25/3.25
EER (Non-Ducted/Ducted):	10.7/10.7	Heating COP 17F (Non-Ducted/ Ducted):	2.18/2.18
IEER (Non-Ducted/Ducted):	20.4/18.0	Heating COP 5F (Non-Ducted/ Ducted):	1.59/1.55*

* 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):	35.1	Airflow Rate (H) (CFM):	14510
Max Overcurrent Protection (MOP) (A):	40	Gas Pipe Connection (inch):	1-1/8
Dimensions (Height) (in):	65-3/8	Liquid Pipe Connection (inch):	5/8
Dimensions (Width) (in):	68-7/8	Sound Pressure (H) (dBA):	69
Dimensions (Depth) (in):	30-1/8	Sound Power Level (dBA):	90
Net Weight (lb):	1025		

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		

Technical drawing of the outdoor unit showing front, side, and top views with dimensions in inches and millimeters. The drawing includes callouts for various components and features.

Notes:

- For piping connection method (front and bottom sides), see the installation manual.
- Gas pipe
 - φ1-1/8 Brazing connection
 - Liquid pipe
 - φ5/8 Brazing connection
- Refer to Florida Miami-Dade Wind Code for anchor and tie-down cable requirements in case of compliance with this code is required in a project.

Unit : in. (mm)

No.	Parts name	Remarks
9	Power cord routing hole	φ3-1/8 (80)
8	Power cord routing hole	φ2-9/16 (65)
7	Pipe routing hole(bottom)	See note 1.
6	Pipe routing hole(front)	See note 1
5	Transmission wire routing hole	φ1-1/16 (27)
4	Grounding terminal	Inside of control box (M8)
3	Refrigerant charge port	
2	Gas pipe connection port	See note 2.
1	Liquid pipe connection port	See note 2