



Submittal Data Sheet

38 Ton, 460V, R32 EMERION HR
REYA456AAYDA

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.	REYA456AAYDA	Outdoor Unit Name:	38 Ton, 460V, R32 EMERION HR
Type:	Heat Recovery	Unit Combination:	REYA216AAYDA + REYA240AAYDA
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 Cooling Capacity (Btu/hr):	434,000	Rated Heating Capacity (Btu/hr):	414,000
Nom Cooling Capacity (Btu/hr):	454,000	Nom Heating Capacity (Btu/hr):	513,000
EER (Non-Ducted/Ducted):	9.4/9.0	Heating COP (Non-Ducted/Ducted):	3.30/3.20
IEER (Non-Ducted/Ducted):	18.3/16.2	Heating COP 17F (Non-Ducted/Ducted):	2.10/2.10
Heating COP 5F (Non-Ducted/Ducted):	1.62/1.66*	SCHE (Non-Ducted/Ducted):	10.2/11.0

* 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 (%):	1 - 100
Min. Circuit Amps MCA (A):	32.8 + 35.1	Airflow Rate (H) (CFM):	29010
Max Overcurrent Protection (MOP) (A):	40+ 40	Gas Pipe Connection (inch):	1-5/8
Dimensions (Height) (in):	65-3/8	Liquid Pipe Connection (inch):	3/4
Dimensions (Width) (in):	68-7/8 + 68-7/8	H/L Pressure Connection (inch)	1-1/8
Dimensions (Depth) (in):	30-1/8	Sound Pressure (H) (dBA):	72
Net Weight (lb):	1944		

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SYSTEM DETAILS

Refrigerant Type:	R-32	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	25.8 + 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

