



Submittal Data Sheet

38 ton, 460V, VRV EMERION HR

REYQ456AAYDB

FEATURES

- New Simple and Stylish design with expanded line up with single-module units from 6 - 20T and dual-modules up to 40 T
- Space-saving 16 - 20 T single module units provide up to 34% footprint and up to 500 lbs./unit weight reduction compared to previous series
- High energy efficiency with IEERs up to 30.0 delivers up to 30% efficiency increase
- Year-round comfort and energy savings with Daikin's Variable Refrigerant Temperature technology (VRT)
- Heating down to -13°F as standard and high heating capacities at 17°F make it an ideal choice for all-electric heat pump solutions
- 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
- Dual-fuel ready with connectivity to Daikin communicating gas furnace or all-electric heat pump heating for optimized operational costs based on utility rates
- 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
- Local code compliance-ready from factory via alignment with compliance needs, such as OSHPD Seismic, Miami Dade Wind, and Chicago pressure relief codes
- Reduced wiring costs with up to 34% reduction in MCA values compared to previous series
- Engineered for ease of installation and service with three-segment panel design
- Factory ships with increased space for easy field piping connections to service valves.
- Built-in data recorder to store up to 40 minutes of operational data
- Integrates with new Daikin HERO ecosystem, an IoT-based remote monitoring and diagnostics platform.





Submittal Data Sheet
38 ton, 460V, VRV EMERION HR
REYQ456AAYDB

PERFORMANCE

Outdoor Unit Model No.	REYQ456AAYDB	Outdoor Unit Name:	38 ton, 460V, VRV EMERION HR
Type:	Heat Recovery	Unit Combination:	REYQ216AAYDB + REYQ240AAYDB
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 /	Rated Heating Conditions:	Indoor (°F DB/WB): / Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):			
Rated Height Difference (ft):			
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
Cooling Input Power (kW):		Heating Input Power (kW):	
EER (Non-Ducted/Ducted):	/ 8.90	Heating COP (Non-Ducted/Ducted):	3.3 / 3.2
IEER (Non-Ducted/Ducted):	18.00 / 15.60	Heating COP 17F (Non-Ducted/Ducted):	/ 2.1
		SCHE (Non-Ducted/Ducted):	10.10 / 10.90

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	460 / 60 / 3	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, L3, Ground	Capacity Control Range (%):	-
Min. Circuit Amps MCA (A):	29.9 + 33.4	Capacity Index Limit:	-
Max Overcurrent Protection (MOP) (A):	35 + 40	Airflow Rate (H) (CFM):	14505 + 14505
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-5/8
Rated Load Amps RLA(A):	(9.1 + 9.1) + (11.0 + 11.1)	Liquid Pipe Connection (inch):	3/4
Dimensions (Height) (in):	65-3/8	H/L Pressure Connection (inch)	1-3/8
Dimensions (Width) (in):	68-7/8 + 65-7/8		
Dimensions (Depth) (in):	30-1/8	Sound Pressure (H) (dBA):	72
Net Weight (lb):	972 + 972	Sound Power Level (dBA):	

Submittal Data Sheet

38 ton, 460V, VRV EMERION HR

REYQ456AAYDB

SYSTEM DETAILS

Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 110
Holding Refrigerant Charge (lbs):	25.8 + 25.8	Heating Operation Range (°F WB):	-13 - 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):	3,280		
Max Height Separation (Ind to Ind ft):	98		

DIMENSIONAL DRAWING

