



HIGH WALL HEAT PUMP DUAL ZONE INVERTER DRIVE MINI SPLITS



Construction

Indoor Unit shall be constructed from Anti Bacterial HIPS, certified to UL94 V0.

Closed cell foam shall be used for insulation.

The Outdoor unit shall be constructed from galvanized steel with a baked on powder coated finish for durability

Heat Exchangers

The heat exchangers shall be manufactured using diamond cut aluminum fin mechanically bonded to copper tubes. All heat exchanger fins shall be coated with an hydrophilic and corrosion resistant finish

Refrigerant Circuit

A single hermetically sealed DC Inverter drive rotary compressor shall be used to provide capacity for both Indoor units Refrigerant flow to each Indoor unit shall be controlled by individual Electronic Expansion Valves located in the Outdoor unit. A single reversing valve shall be energized to switch operation from Cooling to Heat Pump

Each Indoor unit shall have a separate Suction and Expanded Gas refrigerant line with a maximum length of 50ft run each from the Outdoor unit. Refrigerant connections shall be flare type, with individual service valves on the QCOHD18 and manifold style connections on the QCOHD24. Refrigerant shall be R410A

Condensate Removal from Indoor Unit

Shall be accomplished via the standard 18" length Drain hose, can connect to 5/8" ID or 3/4" OD PVC tubing

Fans

The Indoor unit fan shall be molded from HIPS, statically and dynamically balanced for quiet operation.

Multiple fan speeds shall allow the user to select the required airflow. An auto swing louver can be used to direct Indoor airflow as required by the end user, using the wireless remote controller. The condenser fan shall be a propeller type with a speed controlled motor to provide optimum performance

Controls

Control shall be operated via a hand held wireless remote control with a range of 20ft

Unit shall be able to operate in the following modes : Auto, where a default set point of 75 DegF (user adjustable by +/- 2 DegF). In Auto mode the Indoor unit shall determine the optimum fan speed.

Cool mode shall feature user selected room temperature and fan speed

Dry mode shall be similar to the cooling mode, except the Indoor fan speed shall be factory preset

Heat mode shall feature user selected room temperature and fan speed

Fan mode shall just feature operation of the Indoor fan at a user selected speed

Each Indoor unit is capable of being controlled independently, however it is not possible to operate one Indoor unit in the cooling mode and the other Indoor unit in Heat Pump mode. The first unit operated shall set the operating mode for the system and must be turned off to allow the other unit to operate in the opposite mode

Room temperature shall be sensed by a thermistor mounted on the Indoor unit coils, directly in the return air flow stream Indoor coil temperatures shall be monitored to prevent the Indoor coil from freezing up due to lack of airflow or refrigerant

All units shall feature Auto restart in the event of a power failure.

Control is via a single low voltage (shielded) communication wire between the Outdoor unit and the Indoor units

The Inverter drive compressor shall control it's speed by determining the capacity required by the number of Indoor units operating, the mode of operation, the Indoor room and set temperatures and the Outdoor temperature

Air Filtration

Air Filtration shall be via 2 washable filters
 accessed by opening the unit front cover -
 Filters should be cleaned monthly

Warranty

Standard Warranty shall be 1 year Parts and
 5 year compressor, 30 Days limited labor

Specifications	QCHD-18A	QCHD-24A
Nom Cooling Btu/h per Indoor Unit	9,000	12,000
SEER	15.6	14.2
Modulation range in Cooling per Indoor unit (Btu/h)	3,500 - 11,500	5,000 - 14,500
Nom Heating Btu/h per Indoor Unit	11,000	12,500
HSPF	8.1	7.9
Modulation range in Heating per Indoor unit (Btu/h)	4,750 - 12,000	4,750 - 13,500
Voltage	208-230V-1Ph-60Hz	
Breaker Size (A)	20A	20A
RLA Cool/Heat (A)	10.5/9.8A	13/13.7A
Indoor Unit	QCIHD-09A	QCIHD-12A
Airflow Hi/Med/Low Speed (CFM)	350/300/200	460/400/220
Noise Level Hi Speed (Db)	42	45
Width (Inches)	31 1/8"	36 5/8"
Depth (Inches)	8 1/4"	8 1/4"
Height (Inches)	10 5/8"	10 7/8"
Unit Weight (lbs)	26lbs	31lbs
Outdoor Unit	QCOHD-18A	QCOHD-24A
Noise Level (Db)	57	57
Width (Inches)	36 1/2"	35 1/2"
Depth (Inches)	14 1/4"	13"
Height (Inches)	27 5/8"	32"
Unit Weight (lbs)	154lbs	163lbs
Line Sets		
Refrigerant	R410A	
Ref Pipe Sizes to each Indoor unit (Inches)	1/4" & 3/8"	1/4" & 1/2"
Maximum Length to each Indoor unit (ft)	50ft	50ft
Max Vertical Sep to each Indoor unit (ft)	20ft	20ft
Factory Charge for (ft)	25ft	25ft
Addl Charge (oz/ft)	0.3oz/ft	0.3oz/ft

Controls		
Control Method	Wireless Remote control with a temp sensor in each Indoor Unit	
Communication Control Voltage	208/230V	

Certification		
Safety	ETL & ETLc	
Performance	All performance shown is at ARI 210/240 conditions	

Options		
Refrigerant Line Sets	25ft ILS2506, 50ft ILS5006	25ft ILS2507, 50ft ILS5007
Condensate Pumps	ASP-MO-230	ASP-MO-230

Due to Quietside's policy of on-going product development specifications are subject to change without notice, please contact Quietside or your local Quietside distributor to obtain the latest specifications

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