

**8 Ton Heat Pump Outdoor Unit - 208/230 VAC, 3-Phase, 60Hz
1X (AOUA96RLAVL)**

Job Name _____
 Location _____
 Engineer _____
 Submitted To _____
 Submitted By _____
 Reference _____

Date _____
 Approval _____
 Construction _____
 Unit No _____
 Drawing No _____

- Inverter driven compressor
- New style high power DC fan motor.
- Blue fin heat-exchanger (Corrosion resistance)
- 10 year Extended Warranty on parts and compressor. See Warranty Statement.
- Optional: Internet, BACnet, LonWorks, or Modbus communication.



CAPACITY

Nominal Cooling Capacity - BTU/h [kW]	96,000 [28.1]
Nominal Heating Capacity - BTU/h [kW]	108,000 [31.7]
Nominal Tonnage - Ton(s)	8
Maximum Connectable Indoor Units	24
Connectable Capacity	50% to 150%
Cooling Power Input - kW	7.74 non-duct / 7.44 duct
Heating Power Input - kW	7.59 non-duct / 7.73 duct
Unit Group	1X (AOUA96RLAVL)

OPERATING TEMPERATURES

Operating Temp. Cooling (DB) - °F [°C]	5 to 115 [-15 to 46]
Operating Temp. Heating (DB) - °F [°C]	-4 to 70 [-20 to 21]

ELECTRICAL

Electrical Power Requirements	208/230 VAC, 3-Phase, 60Hz
Voltage Range	187 to 253 VAC
Maximum Circuit Breaker - A	40
Minimum Circuit Ampacity (MCA) - A	39
Cooling Power Input - kW	7.74 non-duct / 7.44 duct
Heating Power Input - kW	7.59 non-duct / 7.73 duct
Maximum Starting Current (MSC) - A	31.6
Compressor - Rated Load Amperage (RLA) - A	27.5
Fan Motor - Full Load Amperage (FLA) - A	1.4 + 0.9

EFFICIENCY

EER Cooling (Ducted/Non Ducted)	11.6 / 11.6
IEER Cooling (Ducted/Non Ducted)	23.1 / 21/1
COP / High Heating 47°F (Ducted/Non Ducted)	3.87 / 3.66

COMPRESSOR

Compressor Type	Rotary Inverter
Refrigerant Type	R410A
Refrigerant Charge - lbs [kg]	25.79 [11.70]
Compressor Crankcase Heater - W	2X 35
Refrigerant Oil / Lubricant	FVC68D
Compressor Capacity Control - Steps/Range	951 / 20 - 115

WIRING

Communication Cable	LonWorks (Fujitsu Pink Cable. See AE Bulletin 009)
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FAN

Fan Type	Propeller fan x 2
Fan Airflow Rate - CFM [m3/h]	6,475 (11,000)
Fan Power Output - W	375 x 2
Fan Motor - Full Load Amperage (FLA) - A	1.4 + 0.9
External Static Pressure (Max) - in.WG [Pa]	0.24 [60]

PIPING

Max. Total Refrigerant Line Length - ft [m]	3,280 [1,000]
Max Height Diff. (OD & ID)(Upper/Lower) - ft [m]	164/131 [50/40]
Max. Refrig. Line Length 1st Sep. tube & furthest IU - ft [m]	295 [90]
Pipe Connection Method: Liquid/Gas	Brazed
Pipe Connection: Liquid - in [mm]	3/8(9.52)
Pipe Connection: Discharge Gas - in [mm]	7/8 (22.22)

HEAT EXCHANGER

H. E. Pipe Type (Material)	Grooved H-pin (Copper)
H. E. Fin Tube (Material)	Corrugate (Aluminum)
H. E. Fin Surface Treatment	Corrosion resistance (Blue fin)
H. E. Fin Pitch - FPI [mm]	18 [1.45]
H. E. Rows x Stages	3 x 76
H. E. Face Area - Ft ² [m ²]	22 [2.1]
H. E. Length - in [mm]	50 9/16 [1,285]

SOUND

Sound Pressure Levels (Cooling/Heating) - dB(A)	59 / 60
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WEIGHT

Net Weight - lbs [kg]	470 [213]
Gross Weight - lbs [kg]	511 [232]

DIMENSIONS

Dim.Net (HxWxD) - in [mm]	64-1/2 × 42-1/2 × 18-7/8 [1,638 × 1,080 × 480]
Dim.Gross (HxWxD) - in [mm]	69-9/16 × 46-1/4 × 23-5/8 [1,767 × 1,174 × 600]

CODE

ETL	3170288
AHRI Certified	Standard 1230

Note: Specifications are based on the following conditions:
 Cooling: Indoor temperature of 80°F (26.7°C) DB/67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C) DB/75°F (23.9°C) WB. Heating: Indoor temperature of 70°F (21.1°C) DB/60°F (15.6°C) WB, and outdoor temperature of 47°F (8.3°C) DB/43°F (6.1°C) WB. Pipe length: 25ft. (7.5m), Height difference: 0ft. (0m) (Outdoor unit - indoor unit).

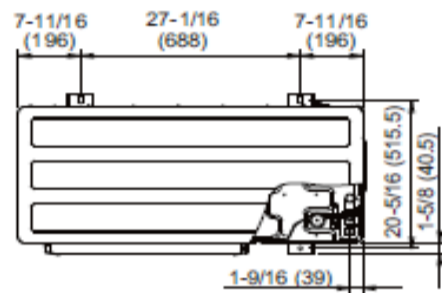


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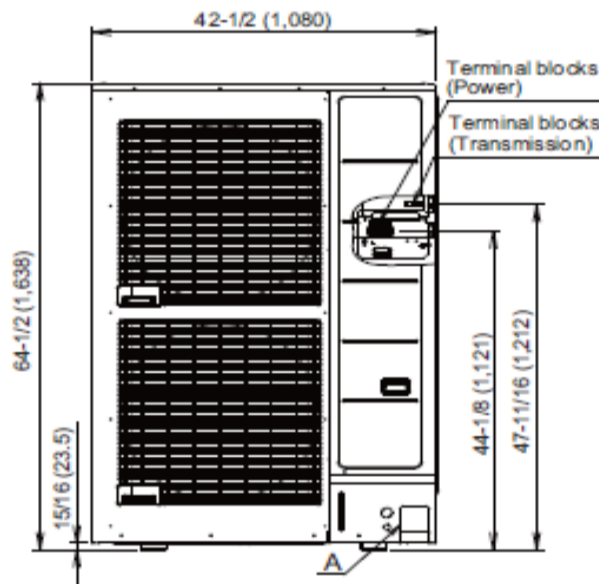
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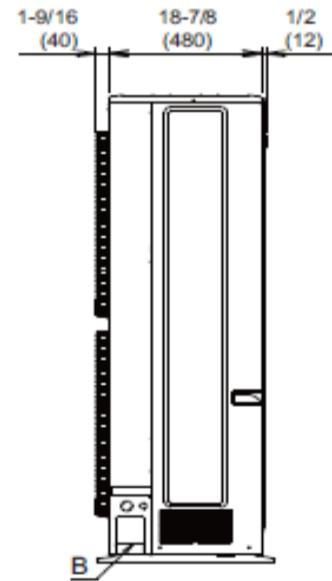
Unit: in (mm)



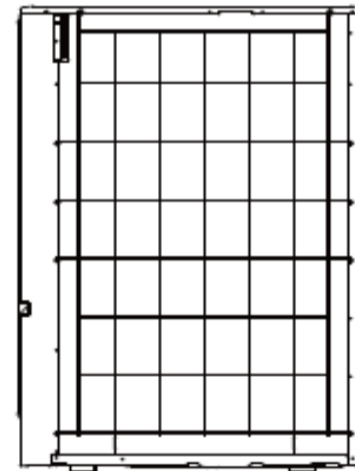
Top view



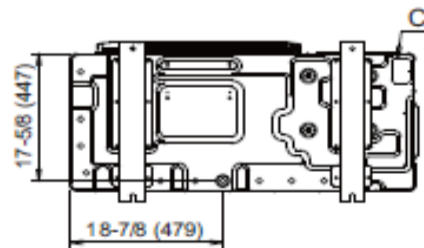
Front view



Side view



Rear view



Bottom view