

4 Ton, HP Outdoor Unit , 208/230 VAC, 1-Phase, 60 Hz

AOU48RLAVM4

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

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

Features

- Powerful heating down to -15 F
- Reduced MCA down to 30A to adjustable 20A
- Base Pan Heater Included
- Improved connection ratio up to 150%
- 10 Year warranty on parts and compressor. See Warranty Statement for details.
- Optional: Internet, BACnet, LonWorks, or Modbus communication



CAPACITY

Nominal Cooling Capacity - BTU/h [kW]	48,000 [14.1]
Nominal Heating Capacity - BTU/h [kW]	54,000 [15.8]
Nominal Tonnage - Ton(s)	4
Maximum Connectable Indoor Units	12
Connectable Capacity	50% to 150%
Cooling Power Input: (Non Ducted/Ducted) - kW	3.73 / 4.72
Heating Power Input: (Non Ducted/Ducted) - kW	3.97 / 4.12
Unit Group	AOU48RLAVM4

ELECTRICAL

Electrical Power Requirements	208/230 V ~ 60 Hz
Voltage Range	187-253
Maximum Circuit Breaker - A	30
Minimum Circuit Ampacity (MCA) - A	29.8
Cooling Power Input: (Non Ducted/Ducted) - kW	3.73 / 4.72
Heating Power Input: (Non Ducted/Ducted) - kW	3.97 / 4.12
Maximum Starting Current (MSC) - A	23
Compressor- Rated Load Amperage (RLA) - A	16.3
Fan Motor - Full Load Amperage (FLA) - A	1

COMPRESSOR

Compressor Type	Rotary (inv) x 1
Refrigerant Type	R410A
Refrigerant Charge - lbs [kg]	10.58 [4.8]
Compressor Crankcase Heater - W	25
Refrigerant Oil / Lubricant	VG74
Compressor Capacity Control - Steps/Range	81 steps/20 to 100%
Compressor Starting Current - SC (A)	23

FAN

Fan Type	Proppeller Fan x 2
Fan Airflow Rate - CFM [m3/h]	3,767 [6,400]
Fan Power Output - W	200
Fan Motor - Full Load Amperage (FLA) - A	1
External Static Pressure (Max) - in.WG [Pa]	0.12 [30]
Motor Output Direct-Drive Inverter - kW	0.2

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 62
H. E. Face Area - Ft ² [m ²]	13.1 [1.22]
H. E. Length - in [mm]	36-13/16 [935]

OUTDOOR TEMPERATURE OPERATION RANGE

Operating Temp. Cooling (HR/HP) - °F [°C]	23 to 115 [-5 to 46]
Operating Temp. Heating (HR/HP) - °F [°C]	-15 to 70 [-26 to 21]

EFFICIENCY

EER Cooling (Non Ducted/Ducted)	12.5 / 11.8
EER2 Cooling (Non Ducted/Ducted)	12.5 / 9.6
HSPF (Non Ducted/Ducted)	11.1 / 10.4
HSPF2 (Non Ducted/Ducted)	9.6 / 8.5
COP / High Heating 47°F (Non Ducted/Ducted)	3.88 / 3.64
COP / Low Heating 17°F (Non Ducted/Ducted)	2.84 / 2.70
COP2 (Non Ducted/Ducted)	3.88 / 3.60
SEER (Non Ducted/Ducted)	19.8 / 18.1
SEER2 (Non Ducted/Ducted)	20.4 / 15.6

WIRING

Communication Cable	LonWorks (Fujitsu Pink Cable. See bulletin A20221205A)
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PIPING

Max. Total Refrigerant Line Length - ft [m]	590 [180]
Max Height Diff. (OD & ID) (Upper/Lower) - ft [m]	164/131 [50/40]
Max. Refrig. Line Length 1st Sep. tube to farthest IU - ft [m]	131 [40]
Pipe Connection Method: Liquid/Gas	Flare
Pipe Connection: Liquid - in [mm]	3/8 [9.52]
Pipe Connection: Discharge Gas - in [mm]	5/8 [15.88]
Maximum Length - Outdoor Unit to Indoor Unit - ft [m]	394[120]

SOUND

Sound Pressure Levels (Cooling/Heating) - dB(A)	51 / 52
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WEIGHT

Net Weight - lbs [kg]	262 [119]
Gross Weight - lbs [kg]	289 [131]

DIMENSIONS

Dim.Net (HxWxD) - in [mm]	52-1/2 x 38-3/16 x 14-9/16 [1,334 x 970 x 370]
Dim.Gross (HxWxD) - in [mm]	59-5/16 x 41-7/8 x 18-13/16 [1,506 x 1,064 x 478]

CODE

AHRI Certified	Standard 210/240
ETL	3170288

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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