

**4 Ton Heat Pump Outdoor Unit - 208/230 VAC, 1-Phase, 60Hz  
AOU48RLAVS**

Job Name \_\_\_\_\_  
 Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Submitted To \_\_\_\_\_  
 Submitted By \_\_\_\_\_  
 Reference \_\_\_\_\_

Date \_\_\_\_\_  
 Approval \_\_\_\_\_  
 Construction \_\_\_\_\_  
 Unit No \_\_\_\_\_  
 Drawing No \_\_\_\_\_

- Energy efficient Single-Phase VRF
- Inverter driven dual rotary compressor
- High power single DC fan motor.
- Large Blue fin heat-exchanger
- 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	8
Connectable Capacity	50% to 130%
Cooling Power Input - kW	4.89 / 5.02
Heating Power Input - kW	4.36 / 4.46

OPERATING TEMPERATURES	
Operating Temp. Cooling (DB) - °F [°C]	23 to 115 [-5 to 46]
Operating Temp. Heating (DB) - °F [°C]	-4 to 70 [-20 to 21]

ELECTRICAL	
Electrical Power Requirements	208/230 VAC, 1-Phase, 60Hz
Voltage Range	187 to 253 VAC
Maximum Circuit Breaker - A	40
Minimum Circuit Ampacity (MCA) - A	33
Cooling Power Input - kW	4.89 / 5.02
Heating Power Input - kW	4.36 / 4.46

EFFICIENCY	
EER Cooling (Ducted/Non Ducted)	9.1 / 9.6
SEER Cooling (Ducted/Non Ducted)	16.9 / 18.8
COP / High Heating 47°F (Ducted/Non Ducted)	3.36 / 3.54
HSPF Heating (Ducted/Non Ducted)	10.10 / 10.90

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

COMPRESSOR	
Compressor Type	Rotary Inverter
Refrigerant Type	R410A
Refrigerant Charge - lbs [kg]	8.82 [4]
Compressor Crankcase Heater - W	21
Refrigerant Oil / Lubricant	RB68 (Ester Oil)
Compressor Capacity Control - Steps/Range	91 / 20-100%

PIPING	
Max. Total Refrigerant Line Length - ft [m]	262 [80]
Max Height Diff. (OD & ID)(Upper/Lower) - ft [m]	98/98 [30/30]
Max. Refrig. Line Length 1st Sep. tube & furthest 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]

FAN	
Fan Type	1x Propeller fan
Fan Airflow Rate - CFM [m3/h]	2,472 [4,200]
Fan Power Output - W	1x 111

SOUND	
Sound Pressure Levels (Cooling/Heating) - dB(A)	53 / 55

WEIGHT	
Net Weight - lbs [kg]	194 [88]
Gross Weight - lbs [kg]	214 [97]

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 46
H. E. Length - in [mm]	36-5/16

DIMENSIONS	
Dim.Net (HxWxD) - in [mm]	39-5/16 × 38-3/16 × 14-9/16 [998 x 970 x 370]

Dim.Gross (HxWxD) - in [mm]	44-9/16 × 44-7/8 × 18-13/16 [1132 x 1064 x 478]
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CODE	
ETL	3170288
AHRI Certified	Standard 210/240

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).



Fujitsu General America, Inc.  
 353 Route 46 West  
 Fairfield, NJ 07004  
 Toll Free: (888) 888-3424  
 Fax: (973) 836-0453  
 www.airstagevrf.com

DIMENSIONS

Unit: In. (mm)

