

**16 Ton Heat Pump Outdoor Unit - 460 VAC, 3-Phase, 60Hz
1X (AOUA72RLCV) + 1X (AOUA120RLCV)**

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.
- Outdoor separation tube must be ordered separately (UTP-CX567A).



CAPACITY

Nominal Cooling Capacity - BTU/h [kW]	192,000 [56.2]
Nominal Heating Capacity - BTU/h [kW]	216,000 [63.3]
Nominal Tonnage - Ton(s)	16
Maximum Connectable Indoor Units	30
Connectable Capacity	50% to 150%
Cooling Power Input - kW	16.04
Heating Power Input - kW	15.65
Unit Group	1X (AOUA72RLCV) + 1X (AOUA120RLCV)

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	460 VAC, 3-Phase, 60Hz
Voltage Range	414 to 506 VAC
Maximum Circuit Breaker - A	1X (25) + 1X (30)
Minimum Circuit Ampacity (MCA) - A	1X(21) + 1X(25)
Cooling Power Input - kW	16.04
Heating Power Input - kW	15.65
Maximum Starting Current (MSC) - A	1X(16.8) + 1X(20.5)
Compressor - Rated Load Amperage (RLA) - A	1X (8.5) + 1X (16)
Fan Motor - Full Load Amperage (FLA) - A	1X (1.5), 1X (1.7)

EFFICIENCY

EER Cooling (Ducted/Non Ducted)	11.1 / 11.2
IEER Cooling (Ducted/Non Ducted)	20.5 / 24.3
COP / High Heating 47°F (Ducted/Non Ducted)	3.57 / 3.75

WIRING

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

Compressor Type	2X Rotary Inverter
Refrigerant Type	R410A
Refrigerant Charge - lbs [kg]	1X (25.79 [11.70]) + 1X (26.01 [11.80])
Compressor Crankcase Heater - W	2X (2X 35)
Refrigerant Oil / Lubricant	POE
Compressor Capacity Control - Steps/Range	951 / 20 - 115 (per unit)

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	Braze
Pipe Connection: Liquid - in [mm]	5/8 [15.88]
Pipe Connection: Discharge Gas - in [mm]	1-1/8 [28.58]

FAN

Fan Type	2X Propeller fan
Fan Airflow Rate - CFM [m3/h]	1X (6,533 [11,100]) + 1X (7,652 [13,000])
Fan Power Output - W	2X (750)
Fan Motor - Full Load Amperage (FLA) - A	1X (1.5), 1X (1.7)
External Static Pressure (Max) - in.WG [Pa]	0.32 [80]

SOUND

Sound Pressure Levels (Cooling/Heating) - dB(A)	62 / 63
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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	2X (3 x 60)
H. E. Face Area - Ft ² [m ²]	1X (23 [2.2]), 1X (28 [2.6])
H. E. Length - in [mm]	1X (69-5/16 [1760]) 1X (81-1/2 (2070))

WEIGHT

Net Weight - lbs [kg]	1X (584 [265]), 1X (635 [288])
Gross Weight - lbs [kg]	1X (628 [285]), 1X (684 [310])

DIMENSIONS

Dim.Net (HxWxD) - in [mm]	1X (66-9/16 x 36-5/8 x 30-1/8 [1690 x 930 x 765]) 1X (66-9/16 x 48-13/16 x 30-1/8 [1690 x 1240 x 765])
Dim.Gross (HxWxD) - in [mm]	1X (71-5/16 x 39-7/16 x 33-3/8 [1811 x 1002 x 847]) 1X (71-5/16 x 51-5/8 x 33-3/8 [1811 x 1312 x 847])

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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DIMENSIONS

Unit: In. (mm)

