

**24 Ton Heat Pump Outdoor Unit - 460 VAC, 3-Phase, 60Hz  
3X (AOUA96RLCV)**

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]	288,000 [84.4]
Nominal Heating Capacity - BTU/h [kW]	324,000 [95.0]
Nominal Tonnage - Ton(s)	24
Maximum Connectable Indoor Units	45
Connectable Capacity	50% to 150%
Cooling Power Input - kW	25.27
Heating Power Input - kW	26.28
Unit Group	3X (AOUA96RLCV)

**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	3X (25)
Minimum Circuit Ampacity (MCA) - A	3X (21)
Cooling Power Input - kW	25.27
Heating Power Input - kW	26.28
Maximum Starting Current (MSC) - A	3X (16.8)
Compressor - Rated Load Amperage (RLA) - A	3X (12.5)
Fan Motor - Full Load Amperage (FLA) - A	3X (1.5)

**WIRING**

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

**COMPRESSOR**

Compressor Type	3X Rotary Inverter
Refrigerant Type	R410A
Refrigerant Charge - lbs [kg]	3X (25.79 [11.70])
Compressor Crankcase Heater - W	3X (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	Brazed
Pipe Connection: Liquid - in [mm]	3/4 [19.05]
Pipe Connection: Discharge Gas - in [mm]	1-3/8 [34.92]

**FAN**

Fan Type	3X Propeller fan
Fan Airflow Rate - CFM [m3/h]	3X (6,533 [11,100])
Fan Power Output - W	3X (750)
Fan Motor - Full Load Amperage (FLA) - A	3X (1.5)
External Static Pressure (Max) - in.WG [Pa]	0.32 [80]

**SOUND**

Sound Pressure Levels (Cooling/Heating) - dB(A) 64 / 64

**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	3X (3 x 60)
H. E. Face Area - Ft <sup>2</sup> [m <sup>2</sup> ]	3X (23 [2.2])
H. E. Length - in [mm]	3X (69-5/16 [1760])

**DIMENSIONS**

Dim.Net (HxWxD) - in [mm] 3X (66-9/16 x 36-5/8 x 30-1/8 [1690 x 930 x 765])

Dim.Gross (HxWxD) - in [mm] 3X (71-5/16 x 39-7/16 x 33-3/8 [1811 x 1002 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)

