

**6 Ton Heat Recovery Outdoor Unit - 460 VAC, 3-Phase, 60Hz  
1X (AOUA72TLCV)**

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]	72,000 [21.1]
Nominal Heating Capacity - BTU/h [kW]	81,000 [23.7]
Nominal Tonnage - Ton(s)	6
Maximum Connectable Indoor Units	14
Connectable Capacity	50% to 150%
Cooling Power Input - kW	5.31
Heating Power Input - kW	5.35
Unit Group	1X (AOUA72TLCV)

**OPERATING TEMPERATURES**

Operating Temp. Cooling (DB) - °F [°C]	14 to 115 [-10 to 46]
Operating Temp. Heating (DB) - °F [°C]	-4 to 70 [-20 to 21]
Operating Temp. Cooling/Heating Simultaneous - °F [°C]	14 to 70 [-10 to 21]

**ELECTRICAL**

Electrical Power Requirements	460 VAC, 3-Phase, 60Hz
Voltage Range	414 to 506 VAC
Maximum Circuit Breaker - A	25
Minimum Circuit Ampacity (MCA) - A	21
Cooling Power Input - kW	5.31
Heating Power Input - kW	5.35
Maximum Starting Current (MSC) - A	16.8
Compressor - Rated Load Amperage (RLA) - A	8.5
Fan Motor - Full Load Amperage (FLA) - A	1.5

**EFFICIENCY**

EER Cooling (Ducted/Non Ducted)	12.3 / 12.5
IEER Cooling (Ducted/Non Ducted)	20 / 24.1
COP / High Heating 47°F (Ducted/Non Ducted)	3.64 / 4.06
SCHE (Ducted/Non Ducted)	24.00/30.10

**WIRING**

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

Compressor Type	Rotary Inverter
Refrigerant Type	R410A
Refrigerant Charge - lbs [kg]	26.01 [11.80]
Compressor Crankcase Heater - W	2X 35
Refrigerant Oil / Lubricant	POE
Compressor Capacity Control - Steps/Range	951 / 20 - 115

**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]	196 [60]
Pipe Connection Method: Liquid/Gas	Brazed
Pipe Connection: Liquid - in [mm]	1/2 [12.70]
Pipe Connection: Discharge Gas - in [mm]	5/8 [15.88]
Pipe Connection: Suction Gas - in [mm]	7/8 [22.22]

**FAN**

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

**SOUND**

Sound Pressure Levels (Cooling/Heating) - dB(A)	57 / 58
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**WEIGHT**

Net Weight - lbs [kg]	609 [276]
Gross Weight - lbs [kg]	653 [296]

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

**DIMENSIONS**

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



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

DIMENSIONS

Unit: In. (mm)

