

**12 Ton Heat Pump Outdoor Unit - 208/230 VAC, 3-Phase, 60Hz
2X (AOUA72RLBVZ1)**

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] | 144,000 [42.2] |
| Nominal Heating Capacity - BTU/h [kW] | 162,000 [47.5] |
| Nominal Tonnage - Ton(s) | 12 |
| Maximum Connectable Indoor Units | 22 |
| Connectable Capacity | 50% to 150% |
| Cooling Power Input - kW | 11.8 |
| Heating Power Input - kW | 12.81 |
| Unit Group | 2X (AOUA72RLBVZ1) |

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, 3-Phase, 60Hz |
| Voltage Range | 187 to 253 VAC |
| Maximum Circuit Breaker - A | 2X (50) |
| Minimum Circuit Ampacity (MCA) - A | 2X (41) |
| Cooling Power Input - kW | 11.8 |
| Heating Power Input - kW | 12.81 |
| Maximum Starting Current (MSC) - A | 2X (33.2) |
| Compressor - Rated Load Amperage (RLA) - A | 2X (17) |
| Fan Motor - Full Load Amperage (FLA) - A | 2X (3) |

EFFICIENCY

| | |
|---------------------------------------------|---------------|
| EER Cooling (Ducted/Non Ducted) | 11.4 / 11.4 |
| IEER Cooling (Ducted/Non Ducted) | 20.40 / 22.20 |
| COP / High Heating 47°F (Ducted/Non Ducted) | 3.44 / 3.44 |

COMPRESSOR

| | |
|-------------------------------------------|--------------------|
| Compressor Type | 2X Rotary Inverter |
| Refrigerant Type | R410A |
| Refrigerant Charge - lbs [kg] | 2X (25.79 [11.70]) |
| Compressor Crankcase Heater - W | 2X (2X 35) |
| Refrigerant Oil / Lubricant | VG74 (Ester oil) |
| Compressor Capacity Control - Steps/Range | 951 / 20 - 115 |

WIRING

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

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] | 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] | 2X (6,533 [11,100]) |
| Fan Power Output - W | 2X (740) |
| Fan Motor - Full Load Amperage (FLA) - A | 2X (3) |
| External Static Pressure (Max) - in.WG [Pa] | 0.32 [80] |

SOUND

| | |
|-------------------------------------------------|---------|
| Sound Pressure Levels (Cooling/Heating) - dB(A) | 60 / 61 |
|-------------------------------------------------|---------|

WEIGHT

| | |
|-------------------------|----------------|
| Net Weight - lbs [kg] | 2X (564 [256]) |
| Gross Weight - lbs [kg] | 2X (611 [277]) |

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] | 2X (23 [2.2]) |
| H. E. Length - in [mm] | 2X (69-5/16 [1760]) |

DIMENSIONS

| | |
|-----------------------------|-----------------------------------------------------|
| Dim.Net (HxWxD) - in [mm] | 2X (66-9/16 x 36-5/8 x 30-1/8 [1690 x 930 x 765]) |
| Dim.Gross (HxWxD) - in [mm] | 2X (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.airstagevfm.com

DIMENSIONS

Unit: In. (mm)

