

**6 Ton Heat Pump Outdoor Unit - 208/230 VAC, 3-Phase, 60Hz
1X (AOU72RLAVL)**

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 | 18 |
| Connectable Capacity | 50% to 150% |
| Cooling Power Input - kW | 5.55 non-duct / 5.43 duct |
| Heating Power Input - kW | 5.22 non-duct / 5.24 duct |
| Unit Group | 1X (AOU72RLAVL) |

| OPERATING TEMPERATURES | |
|--|----------------------|
| Operating Temp. Cooling (DB) - °F [°C] | 5 to 115 [-15 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 | 40 |
| Minimum Circuit Ampacity (MCA) - A | 38 |
| Cooling Power Input - kW | 5.55 non-duct / 5.43 duct |
| Heating Power Input - kW | 5.22 non-duct / 5.24 duct |
| Maximum Starting Current (MSC) - A | 30.6 |
| Compressor - Rated Load Amperage (RLA) - A | 26.1 |
| Fan Motor - Full Load Amperage (FLA) - A | 0.8 + 0.8 |

| EFFICIENCY | |
|---|-------------|
| EER Cooling (Ducted/Non Ducted) | 11.9 / 12/1 |
| IEER Cooling (Ducted/Non Ducted) | 23.9 / 21.5 |
| COP / High Heating 47°F (Ducted/Non Ducted) | 4.19 / 4.01 |

| COMPRESSOR | |
|---|-----------------|
| Compressor Type | Rotary Inverter |
| Refrigerant Type | R410A |
| Refrigerant Charge - lbs [kg] | 24.25 [11.0] |
| Compressor Crankcase Heater - W | 2X 35 |
| Refrigerant Oil / Lubricant | FVC68D |
| Compressor Capacity Control - Steps/Range | 951 / 20 - 115 |

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

| FAN | |
|---|-------------------|
| Fan Type | Propeller fan x 2 |
| Fan Airflow Rate - CFM [m3/h] | 5,297(9,000) |
| Fan Power Output - W | 375 x 2 |
| Fan Motor - Full Load Amperage (FLA) - A | 0.8 + 0.8 |
| External Static Pressure (Max) - in.WG [Pa] | 0.24 [60] |

| PIPING | |
|---|-----------------|
| Max. Total Refrigerant Line Length - ft [m] | 394 [120] |
| 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] | 3/8(9.52) |
| Pipe Connection: Discharge Gas - in [mm] | 3/4(19.05) |

| 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 76 |
| H. E. Face Area - Ft ² [m ²] | 22 [2.1] |
| H. E. Length - in [mm] | 50 9/16 [1,285] |

| SOUND | |
|---|---------|
| Sound Pressure Levels (Cooling/Heating) - dB(A) | 54 / 55 |

| WEIGHT | |
|-------------------------|-----------|
| Net Weight - lbs [kg] | 470 [213] |
| Gross Weight - lbs [kg] | 511 [232] |

| DIMENSIONS | |
|---------------------------|---|
| Dim.Net (HxWxD) - in [mm] | 64-1/2 × 42-1/2 × 18-7/8 [1,638 × 1,080 × 480] |

| | |
|-----------------------------|--|
| Dim.Gross (HxWxD) - in [mm] | 69-9/16 × 46-1/4 × 23-5/8 [1,767 × 1,174 × 600] |
|-----------------------------|--|

| 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).

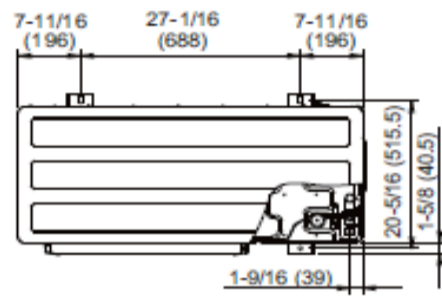


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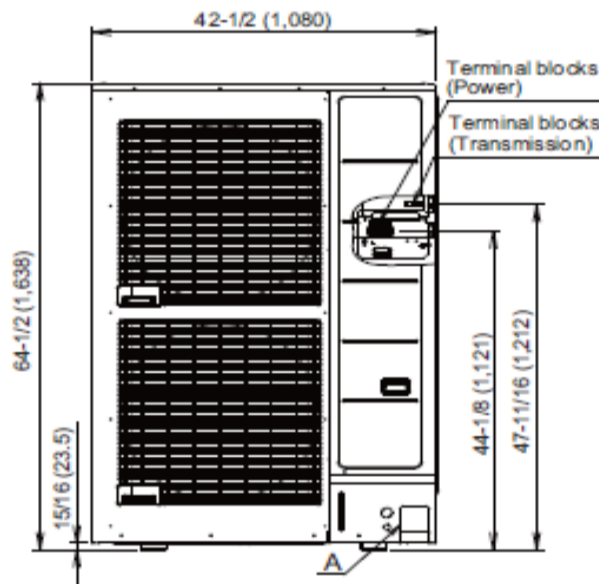
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DIMENSIONS

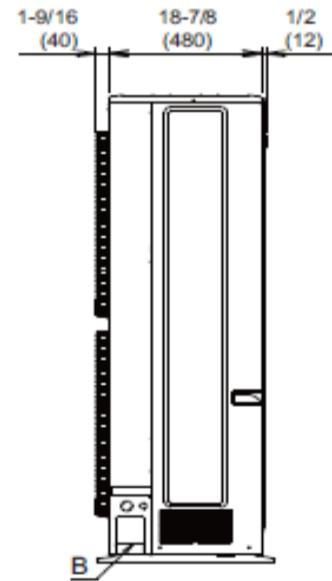
Unit: in (mm)



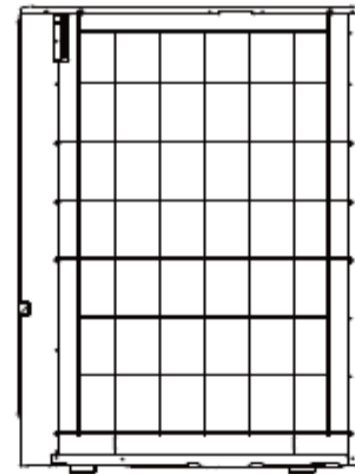
Top view



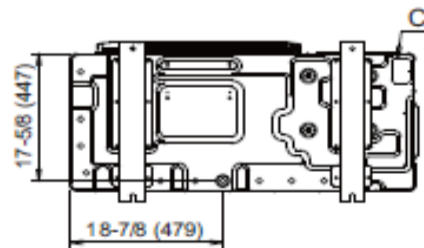
Front view



Side view



Rear view



Bottom view