

**18 Ton Heat Recovery Outdoor Unit - 460 VAC, 3-Phase, 60Hz
1X (AOUA96TLCV) + 1X (AOUA120TLCV)**

| | |
|---------------------------|---------------------------|
| Job Name _____ | Date _____ |
| Location _____ | Approval _____ |
| Engineer _____ | Construction _____ |
| Submitted To _____ | Unit No _____ |
| Submitted By _____ | Drawing No _____ |
| Reference _____ | |

- 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-DX567A).



| CAPACITY | |
|---------------------------------------|------------------------------------|
| Nominal Cooling Capacity - BTU/h [kW] | 216,000 [63.3] |
| Nominal Heating Capacity - BTU/h [kW] | 243,000 [71.2] |
| Nominal Tonnage - Ton(s) | 18 |
| Maximum Connectable Indoor Units | 34 |
| Connectable Capacity | 50% to 150% |
| Cooling Power Input - kW | 18.27 |
| Heating Power Input - kW | 18.91 |
| Unit Group | 1X (AOUA96TLCV) + 1X (AOUA120TLCV) |

| 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 | 1X (25) + 1X (30) |
| Minimum Circuit Ampacity (MCA) - A | 1X (21) + 1X (25) |
| Cooling Power Input - kW | 18.27 |
| Heating Power Input - kW | 18.91 |
| Maximum Starting Current (MSC) - A | 1X (16.8) + 1X (20.5) |
| Compressor - Rated Load Amperage (RLA) - A | 1X (12.5) + 1X (16) |
| Fan Motor - Full Load Amperage (FLA) - A | 1X (1.5), 1X (1.7) |

| EFFICIENCY | |
|---|-------------|
| EER Cooling (Ducted/Non Ducted) | 10.9 / 10.9 |
| IEER Cooling (Ducted/Non Ducted) | 19.2 / 20 |
| COP / High Heating 47°F (Ducted/Non Ducted) | 3.47 / 3.47 |
| SCHE (Ducted/Non Ducted) | 25.2 / 25.2 |

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

| COMPRESSOR | |
|---|--------------------|
| Compressor Type | 2X Rotary Inverter |
| Refrigerant Type | R410A |
| Refrigerant Charge - lbs [kg] | 2X (26.01 [11.80]) |
| Compressor Crankcase Heater - W | 2X (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] | 5/8 [15.88] |
| Pipe Connection: Discharge Gas - in [mm] | 1-1/8 [28.58] |
| Pipe Connection: Suction Gas - in [mm] | 1-3/8 [34.92] |

| 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) | 63 / 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 | 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 (609 [276]), 1X (657 [298]) |
| Gross Weight - lbs [kg] | 1X (653 [296]), 1X (708 [321]) |

| 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)

