

8 ton HP/HR Outdoor unit, 208/230 VAC, 3-phase, 60 Hz

1 X (AOUA96ULBV5)

Job Name _____
 Location _____
 Engineer _____
 Submitted To _____
 Submitted By _____
 Reference _____

Date _____
 Approval _____
 Construction _____
 Unit No _____
 Drawing No _____

Features

- Compact outdoor unit with single chassis up to 16 tons
- Extended heating capacity to -15 F and cooling to 126 F
- Heat pump and Heat Recovery options with same SKU
- Up to 64 indoor units connectable to 36 ton System
- High static pressure of 0.44 in. W.C on the outdoor fan
- Base pan heater Standard
- Intelligent refrigerant control and operation logic
- Inverter driven scroll compressor and large accumulator
- 10 year Extended Warranty on parts and compressor. See Warranty Statement.



CAPACITY

| | |
|---------------------------------------|----------------|
| Nominal Cooling Capacity - BTU/h [kW] | 96,000 [28.1] |
| Nominal Heating Capacity - BTU/h [kW] | 108,000 [31.7] |
| Nominal Tonnage - Ton(s) | 8 |
| Maximum Connectable Indoor Units | 21 |
| Connectable Capacity | 25% to 150% |
| Cooling Power Input (HR/HP) - kW | 6.70/7.24 |
| Heating Power Input (HR/HP) - kW | 7.31/7.52 |
| Unit Group | AOUA96ULBV5 |

OUTDOOR TEMPERATURE OPERATION RANGE

| | |
|--|--|
| Operating Temp. Cooling (HR/HP) - °F [°C] | 14 to 126[-10 to 52] / 5 to 126[-15 to 52] |
| Operating Temp. Heating (HR/HP) - °F [°C] | -15 to 70[-26 to 21] |
| Operating Temp. Cooling/Heating Simultaneous(HR) - °F [°C] | 14 to 70[-10 to 21] |

ELECTRICAL

| | |
|--|-------------------|
| Electrical Power Requirements | 208/230 V ~ 60 Hz |
| Voltage Range | 187-253 |
| Maximum Circuit Breaker - A | 50 |
| Minimum Circuit Ampacity (MCA) - A | 37.7 |
| Cooling Power Input (HR/HP) - kW | 6.70/7.24 |
| Heating Power Input (HR/HP) - kW | 7.31/7.52 |
| Maximum Starting Current (MSC) - A | 29.7 |
| Compressor - Rated Load Amperage (RLA) - A | 26.4 |
| Fan Motor - Full Load Amperage (FLA) - A | 3.3 |

EFFICIENCY

| | |
|---------------------------------|------------|
| EER Cooling (Non Ducted/Ducted) | 13.2/11.7 |
| High COP (Non Ducted/ Ducted) | 4.00/3.72 |
| Low COP (Non Ducted/ Ducted) | 2.52/2.46 |
| IEER (Non Ducted/ Ducted) | 28.0/19.90 |
| SCHE (Non Ducted/ Ducted) | 34.0/28.20 |

COMPRESSOR

| | |
|---|-------------------------|
| Compressor Type | Scroll (inv) |
| Refrigerant Type | R410A |
| Refrigerant Charge - lbs [kg] | 25.79 [11.7] |
| Compressor Crankcase Heater - W | 2 X 35 |
| Refrigerant Oil / Lubricant | PVE |
| Compressor Capacity Control - Steps/Range | 106 steps/ 12.5 to 100% |
| Compressor Starting Current - SC (A) | 29.7 |

WIRING

| | |
|---------------------|--|
| Communication Cable | LonWorks (Fujitsu Pink Cable. See bulletin A20221205A) |
|---------------------|--|

FAN

| | |
|---|--------------------|
| Fan Type | Proppeller fan x 1 |
| Fan Airflow Rate - CFM [m3/h] | 6533[11,100] |
| Fan Power Output - W | 740 |
| Fan Motor - Full Load Amperage (FLA) - A | 3.3 |
| External Static Pressure (Max) - in.WG [Pa] | 0.32[80] |
| Motor Output Direct-Drive Inverter - kW | 0.74 |

PIPING

| | |
|--|-----------------|
| Max. Total Refrigerant Line Length - ft [m] | 2,296 [700] |
| Max Height Diff. (OD & ID)(Upper/Lower) - ft [m] | 164/131 [50/40] |
| Max. Refrig. Line Length 1st Sep. tube to farthest IU - ft [m] | 295 [90] |
| Pipe Connection Method: Liquid/Gas | Brazing |
| Pipe Connection: Liquid - in [mm] | 3/8 [9.52] |
| Pipe Connection: Discharge Gas - in [mm] | 3/4 [19.05] |
| Pipe Connection: Suction Gas - in [mm] | 7/8 [22.2] |
| Maximum Length -Outdoor Unit to Indoor Unit- ft [m] | 541 [165] |

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 ² [m ²] | 24[2.2] |
| H. E. Length - in [mm] | 69-5/16[1760] |

SOUND

| | |
|---|-------|
| Sound Pressure Levels (Cooling/Heating) - dB(A) | 59/59 |
|---|-------|

WEIGHT

| | |
|-------------------------|----------|
| Net Weight - lbs [kg] | 569[258] |
| Gross Weight - lbs [kg] | 635[288] |

DIMENSIONS

| | |
|-----------------------------|--|
| Dim.Net (HxWxD) - in [mm] | 66-9/16 x 36-5/8 x 30-1/8 [1,690 x 930 x 765] |
| Dim.Gross (HxWxD) - in [mm] | 73-1/4 x 40-3/16 x 35-3/8 [1,860 x 1,020 x 898] |

CODE

| | |
|----------------|------------------|
| AHRI Certified | Standard 1230 |
| ETL | 220324027GZU-001 |

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)

