

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

1 X (AOUA72ULBV5)

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]	72,000 [21.1]
Nominal Heating Capacity - BTU/h [kW]	81,000 [23.7]
Nominal Tonnage - Ton(s)	6
Maximum Connectable Indoor Units	16
Connectable Capacity	25% to 150%
Cooling Power Input (HR/HP) - kW	4.46/5.17
Heating Power Input (HR/HP) - kW	4.56/5.56
Unit Group	AOUA72ULBV5

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	40
Minimum Circuit Ampacity (MCA) - A	29.3
Cooling Power Input (HR/HP) - kW	4.46/5.17
Heating Power Input (HR/HP) - kW	4.95/5.56
Maximum Starting Current (MSC) - A	23
Compressor - Rated Load Amperage (RLA) - A	19.7
Fan Motor - Full Load Amperage (FLA) - A	3.3

EFFICIENCY

EER Cooling (Non Ducted/Ducted)	12.3/14.9
High COP (Non Ducted/ Ducted)	3.77/4.42
Low COP (Non Ducted/ Ducted)	2.65/2.45
IEER (Non Ducted/ Ducted)	29.0/21.20
SCHE (Non Ducted/ Ducted)	34.60/26.50

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)	23

WIRING

Communication Cable	LonWorks (Fujitsu Pink Cable. See bulletin A20221205A)
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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]	5/8 [15.88]
Pipe Connection: Suction Gas - in [mm]	3/4 [19.05]
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)	57/58
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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)

