

**20 Ton Heat Pump Outdoor Unit - 208/230 VAC, 3-Phase, 60Hz
2X (AOUA72RLBV) + 1X (AOUA96RLBV)**

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-CX567A).



CAPACITY	
Nominal Cooling Capacity - BTU/h [kW]	240,000 [70.3]
Nominal Heating Capacity - BTU/h [kW]	270,000 [79.1]
Nominal Tonnage - Ton(s)	20
Maximum Connectable Indoor Units	35
Connectable Capacity	50% to 130%
Cooling Power Input - kW	19.65
Heating Power Input - kW	20.83
Unit Group	2X (AOUA72RLBV) + 1X (AOUA96RLBV)

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	3X (50)
Minimum Circuit Ampacity (MCA) - A	3X (41)
Cooling Power Input - kW	19.65
Heating Power Input - kW	20.83
Maximum Starting Current (MSC) - A	3X (33.2)
Compressor - Rated Load Amperage (RLA) - A	2X (14) + 1X (21)
Fan Motor - Full Load Amperage (FLA) - A	3X (3.2)

EFFICIENCY	
EER Cooling (Ducted/Non Ducted)	11.9 / 11.3
IEER Cooling (Ducted/Non Ducted)	17.2 / 19.6
COP / High Heating 47°F (Ducted/Non Ducted)	3.58 / 3.53

COMPRESSOR	
Compressor Type	3X Rotary Inverter
Refrigerant Type	R410A
Refrigerant Charge - lbs [kg]	3X (24.7 [11.2])
Compressor Crankcase Heater - W	3X 25
Refrigerant Oil / Lubricant	PVE
Compressor Capacity Control - Steps/Range	71 / 30-100% (per unit)

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

FAN	
Fan Type	3X Propeller fan
Fan Airflow Rate - CFM [m3/h]	3X (6,533 [11,100])
Fan Power Output - W	3X (700)
Fan Motor - Full Load Amperage (FLA) - A	3X (3.2)
External Static Pressure (Max) - in.WG [Pa]	0.32 [80]

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]	1-3/8 [34.92]

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	3X (3 x 60)
H. E. Face Area - Ft² [m²]	3X (23 [2.2])
H. E. Length - in [mm]	3X (69-5/16 [1760])

SOUND	
Sound Pressure Levels (Cooling/Heating) - dB(A)	64/65

WEIGHT	
Net Weight - lbs [kg]	3X (490 [222])
Gross Weight - lbs [kg]	3X (542 [246])

DIMENSIONS	
Dim.Net (HxWxD) - in [mm]	3X (66-9/16 x 36-5/8 x 30-1/8 [1690 x 930 x 765])

Dim.Gross (HxWxD) - in [mm]	3X (71-5/16 x 39-7/16 x 33-3/8 [1811 x 1002 x 847])
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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)

