

**20 Ton Heat Pump Outdoor Unit - 208/230 VAC, 3-Phase, 60Hz  
2X (AOUA120RLBVZ1)**

**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]	240,000 [70.3]
Nominal Heating Capacity - BTU/h [kW]	270,000 [79.1]
Nominal Tonnage - Ton(s)	20
Maximum Connectable Indoor Units	37
Connectable Capacity	50% to 150%
Cooling Power Input - kW	20.45
Heating Power Input - kW	21.9
Unit Group	2X (AOUA120RLBVZ1)

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	2X (60)
Minimum Circuit Ampacity (MCA) - A	2X (50)
Cooling Power Input - kW	20.45
Heating Power Input - kW	21.9
Maximum Starting Current (MSC) - A	2X (40)
Compressor - Rated Load Amperage (RLA) - A	2X (32)
Fan Motor - Full Load Amperage (FLA) - A	2X (3.4)

EFFICIENCY	
EER Cooling (Ducted/Non Ducted)	10.9 / 10.9
IEER Cooling (Ducted/Non Ducted)	20.20 / 20.80
COP / High Heating 47°F (Ducted/Non Ducted)	3.36 / 3.36

COMPRESSOR	
Compressor Type	2X Rotary Inverter
Refrigerant Type	R410A
Refrigerant Charge - lbs [kg]	2X(26.01 [11.8])
Compressor Crankcase Heater - W	2X (2X 35)
Refrigerant Oil / Lubricant	VG74 (Ester oil)
Compressor Capacity Control - Steps/Range	951 / 20 - 115 (per unit)

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

FAN	
Fan Type	2X Propeller fan
Fan Airflow Rate - CFM [m3/h]	2X (7,652 [13,000])
Fan Power Output - W	2X (2X 740))
Fan Motor - Full Load Amperage (FLA) - A	2X (3.4)
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]	295 [90]
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	2X (2X (3 x 60))
H. E. Face Area - Ft² [m²]	2X (28 [2.6])
H. E. Length - in [mm]	2X (81-1/2 [2070])

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

WEIGHT	
Net Weight - lbs [kg]	2X (611 [277])
Gross Weight - lbs [kg]	2X (664 [301])

DIMENSIONS	
Dim.Net (HxWxD) - in [mm]	2X (66-9/16 × 48-13/16 × 30-1/8 [1690 × 1240 × 765])

Dim.Gross (HxWxD) - in [mm]	2X (71-5/16 × 51-5/8 × 33-3/8 [1811 × 1312 × 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)

