SUBMITAL  AOUA120RLCV

10 Ton Heat Pump Outdoor Unit - 460 VAC, 3-Phase, 60Hz
1X (AOUA120RLCV)

• 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]: 120,000 [35.2]
Nominal Heating Capacity - BTU/h [kW]: 135,000 [39.6]
Nominal Tonnage - Ton(s): 10
Maximum Connectable Indoor Units: 18
Connectable Capacity: 50% to 150%
Cooling Power Input - kW: 9.86
Heating Power Input - kW: 10.19
Unit Group: 1X (AOUA120RLCV)

OPERATING TEMPERATURES
Operating Temp. Cooling (DB) - °F [°C]: 5 to 115 [-15 to 46]
Operating Temp. Heating (DB) - °F [°C]: -4 to 70 [-20 to 21]

EFFICIENCY
EER Cooling (Ducted/Non Ducted): 11.3 / 11.3
EER Heating (Ducted/Non Ducted): 20.1 / 23.8
COP / High Heating 47°F (Ducted/Non Ducted): 3.49 / 3.61

ELECTRICAL
Electrical Power Requirements: 460 VAC, 3-Phase, 60Hz
Voltage Range: 414 to 506 VAC
Maximum Circuit Breaker - A: 30
Minimum Circuit Ampacity (MCA) - A: 25
Cooling Power Input - kW: 9.86
Heating Power Input - kW: 10.19
Maximum Starting Current (MSC) - A: 20.5
Compressor - Rated Load Amperage (RLA) - A: 16
Fan Motor - Full Load Amperage (FLA) - A: 1.7

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

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]
Compressor Capacity Control - Steps/Range: 951 / 20 - 115

SOUND
Sound Pressure Levels (Cooling/Heating) - dB(A): 61 / 62

WEIGHT
Fan Type: Propeller fan
Fan Airflow Rate - CFM [m³/h]: 7,652 [13,000]
Fan Power Output - W: 750
Fan Motor - Full Load Amperage (FLA) - A: 1.7
External Static Pressure (Max) - in.WG [Pa]: 0.32 [80]

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 - ft² [m²]: 28 [2.6]
H. E. Length - in [mm]: 81-1/2 [2070]

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 lengths: 25ft (7.5m), Height difference: 0ft (0m) (Outdoor unit – indoor unit).

Fujitsu General America, Inc.
353 Route 46 West
Fairfield, NJ 07004
Toll Free: (888) 888-3424
Fax: (973) 836-0453
www.airstagevrf.com

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Submittal AOUA120RLCV

DIMENSIONS

Unit: In. (mm)

Detail A: Front view

Detail B: Left view

Detail C: Top view

Front view

Left view

Right view

Top view

Rear view

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