

**EQUIPMENT DATA SPECIFICATION
AIR CONDITIONER**

**Telecom & Digital Signage Package
HC121**



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SPECIFICATION

1.0 SCOPE

This specification covers the minimum general and specific requirements for the Air Conditioner unit for electrical enclosures used with telecommunications or digital signage outdoor enclosures.

2.0 REQUIREMENTS

- Type of Heat Exchange Compressor based air conditioner
- Ambient Operating Temperature 60°F – 131°F
- Approvals and Stamps UL, cUL, CE
- UL Type 4 or 4X
- Voltage 103.5-126.5 VAC, 60 Hz, 64.50A Inrush, 19.4A Running
207-253 VAC, 60 Hz, 31.50A Inrush, 8.2A Running
414-506 VAC, 60 Hz, 15.09A Inrush, 4.1A Running
- BTU Rating 12,000 BTUH, Nominal
- Material Type UL Type 12, 04: Powder coated cold rolled steel
UL Type 4X: 304 or 316 Stainless Steel, #4 Finish
Aluminum, mill finish
- Construction Chassis: Rigid, insulated, closed loop
Shroud: Seam welded, sloped top, insulated
- Condensate Removal Active evaporation utilizing superheated refrigerant coil
- Refrigerant R438a
- Refrigerant Metering Thermal expansion valve
- Refrigerant Service Ports High pressure
Low pressure

- Digital Controller
 - Controls
 - Cooling set point
 - Cooling set point differential
 - Compressor protection:
 - Anti-short cycle delay
 - Condenser high temperature limit
 - Evaporator low pressure limit
 - Probes displayed:
 - Evaporator temperature
 - Condenser temperature
 - Auxiliary set points:
 - Heater
 - Dry contact
 - Auxiliary set point differential
 - Alarms
 - Enclosure probe failure (P1)
 - Condenser probe failure (P2)
 - Maximum temperature for 3 minutes (HA)
 - Minimum temperature for 3 minutes (LA)
 - Condenser high temperature for 3 minutes (HA2)
 - Condenser low temperature for 3 minutes (LA2)
 - Evaporator low pressure for 2 minutes (CA)
 - Remote Mount
 - Digital controller supplied with 10 ft. cable & bracket for installation inside equipment cabinet
- Compressor Head Pressure Control Pressure controlled condenser fan switch
- Compressor Protection Thermal/current overload switch (self-resetting)
- Condenser Filter Standard: Expanded aluminum, 250 micron, 60% efficiency
- Louvered Security Filter Cover Type 4: Powder coated mild steel
Type 4X: 304 or 316 Stainless Steel, #4 Finish
- Electrical Connection Terminal block
Power On/Off switch
- Dimensions 115 V / 230 V: 48”H x 15.9”W x 15.1”D
460 V: 56.6”H x 15.9”W x 15.1”D
- Unit Weight 115 V: 167 lbs.
230 V: 163 lbs.
460 V: 237 lbs.
- Shipping Corrugated packaging and pallet

- Warranty 5 years

3.0 OPTIONS

- Condenser Filter High Capacity: 2” Pleated, 304 Stainless steel mesh, 250 micron, 94% efficiency
- Refrigeration Circuit Protection Electrostatic epoxy coated coils, copper tubing brazed with 45% silver solder & epoxy coated
- Integrated Heater 500W
1000W
1500W
- Low Ambient For operation at ambient temperatures below 60°F
- Dry Contact Normally open
(Operation when enclosure temperature exceeds maximum limit) Normally closed
Normally open & normally closed
- Custom Programming Factory programming of digital controller for Celsius temperature or deviation from default settings
- External Heater Control 100 W – 950W
- High Ambient For operation at ambient temperatures above 131°F
- Open Door Kill Switch Disables power to air conditioner when equipment enclosure door is open
- Adjustable Temperature Probe Monitor & maintain temperature at any point inside equipment enclosure
- Controller Communication Output Modbus RTU
EtherNet/IP
- Vibration Package Protects air conditioner components from effects of moderate or severe vibration
- Redundant System Alternating operation of two air conditioners including backup mode in the event that one unit fails

4.0 ACCESSORIES

- Replacement Filters Standard
High Capacity
- Alarm & Controlling Web Server XWEB300D

5.0 CODES AND STANDARDS

- ANSI/UL 484 Room Air Conditioners (Special Purpose)
- ANSI/NFPA 70 National Electrical Code
- CSA-C22.2 No. 236-M90 Heating and Cooling Equipment
- CSA-C22.2 No. 117 Room Air Conditioners (Special Purpose)
- CAN/CSA-C22.1 Canadian Electrical Code, Part I.
- EN Harmonized European Standards
 - EN 378-1 through -4 Refrigerating Systems and Heat Pumps
 - EN 60204-1 Electrical Equipment of Machinery
 - EN 60529, IP IP Code
 - EN 61000-3-11 Electromagnetic Compatibility
 - EN 61000-6-2 Emission
 - EN 61000-6-4 Immunity