

**EQUIPMENT DATA SPECIFICATION
AIR CONDITIONER**

**Telecom & Digital Signage Package
CS011 (AC Powered)**



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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, 10.1A Inrush, 2.7A Running
- BTU Rating 1000 BTUH, Nominal
- Material Type
Type 4: Powder coated mild steel
Type 4X: 304 or 316 Stainless Steel, #4 Finish
- Construction
Chassis: Rigid, insulated, closed loop
Shroud: Seam welded, insulated
- Enclosure Mounting Two coil design with condenser air intake from either or both sides, permits installation on right or left side of wall mounted enclosure
- Condensate Removal Active evaporation utilizing superheated refrigerant coil
- Refrigerant R134a
- 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)
- Electrical Connection
 - Power cord with plug
 - Power On/Off switch
- Dimensions
 - 17”H x 7”W x 7”D
- Unit Weight
 - 31 lbs.
- Shipping
 - Corrugated packaging and pallet
- Warranty
 - 5 years

3.0 OPTIONS

- Refrigeration Circuit Protection Electrostatic epoxy coated coils, copper tubing brazed with 45% silver solder & epoxy coated
- Integrated Heater 350W (Not available with Remote Controller, Modbus RTU, or Ethernet/IP options.)
- 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
- 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
- High Ambient For operation at ambient temperatures above 131°F
- Low Ambient For operation at ambient temperatures below 60°F
- Controller Communication Output Modbus RTU
EtherNet/IP

4.0 ACCESSORIES

- 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