

## EQUIPMENT DATA SPECIFICATION AIR CONDITIONER

### Telecom & Digital Signage Package CS020



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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 – 125°F
- Approvals and Stamps UL, cUL, CE
- UL Type 4 or 4X
- Voltage 103.5-126.5 VAC, 60 Hz, 10.63A Inrush, 4.1A Running  
207-253 VAC, 60 Hz, 8.84A Inrush, 2.00A Running
- BTU Rating 2000 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, sloped top, insulated
- 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 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: 20”H x 10”W x 10”D
- Unit Weight 115 V / 230 V: 44 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
- 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 125°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

### 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