

EQUIPMENT DATA SPECIFICATION AIR CONDITIONER

Security Package CS011



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SPECIFICATION

1.0 SCOPE

This specification covers the minimum general and specific requirements for the Air Conditioner unit requiring the appropriate measures to provide cooling while keeping the air conditioner and its controls secure

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 12 or 4
- Voltage 103.5-126.5 VAC, 60 Hz, 10.1A Inrush, 2.7A Running
43-53 VDC, 3.7A Running
- BTU Rating 1000 – 2000 BTUH, Nominal
- Material Type Powder coated mild steel
- 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
 - Terminal block
 - Power On/Off switch
- Dimensions
 - 17”H x 7”W x 7”D
- Unit Weight
 - 30 lbs.
- Shipping
 - Corrugated packaging and pallet
- Warranty
 - 5 years

3.0 OPTIONS

- NEMA Type 4X
- Refrigeration Circuit Protection Electrostatic epoxy coated coils, copper tubing brazed with 45% silver solder & epoxy coated
- 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