

EQUIPMENT DATA SPECIFICATION

AIR CONDITIONER CS020

Hazardous Location Systems



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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 in hazardous locations.

2.0 REQUIREMENTS

- Type of Heat Exchange Compressor based air conditioner
- Ambient Operating Temperature 60°F – 118°F
- Approvals and Stamps cUL_{US} (Safety), cMET_{US} (Haz Loc), CE
- Area Classification Class I, Division 2, Groups A, B, C & D, T6
- UL Type 4X
- Voltage 110-120 VAC, 60 Hz, 10.63A Inrush, 4.1A Running
220-240 VAC, 60 Hz, 8.84A Inrush, 2.0A Running
- BTU Rating 2000 BTUH, Nominal
- Material Type 304 stainless steel housing, #4 Finish
- Construction Chassis: Rigid, insulated, closed loop
Shroud: Seam welded, sloped top, insulated
- Refrigeration Circuit Protection Electrostatic epoxy coated condenser coil
- Condensate Removal Active evaporation utilizing superheated refrigerant coil
- Refrigerant R134a
- Refrigerant Metering Thermal expansion valve
- Refrigerant Service Ports High pressure
Low pressure

- Compressor Protection
 - Condenser high pressure switch
 - Evaporator low pressure switch
- Digital Controller
 - Controls
 - Cooling set point
 - Cooling set point differential
 - Auxiliary set point: Dry contact
 - Auxiliary set point differential
 - Display
 - Enclosure air temperature
- Compressor Protection Thermal/current overload switch (self-resetting)
- Condenser Filter Standard: Expanded aluminum, 250 micron, 60% efficiency
- Electrical Connection Terminal block
- Dimensions 20”H x 10”W x 10”D
- Unit Weight 120 V: 44 lbs.
230 V: 49 lbs.
- Shipping Corrugated packaging and pallet

3.0 OPTIONS

- Material Type 316 stainless steel housing, #4 Finish
- Refrigeration Circuit Protection Electrostatic epoxy coated evaporator coil
Epoxy coated refrigeration tubing
- High Capacity Condenser Filter 2” Pleated, 304 Stainless steel mesh, 250 micron, 94% efficiency
- Louvered Security Filter Cover 304 or 316 Stainless Steel
- Low Ambient For operation at ambient temperatures below 60°F
- Dry Contact Normally open
(High Temperature Warning)
- Custom Programming Factory programming of digital controller for Celsius temperature or deviation from default settings
- Extended Temperature Probe Monitor & maintain temperature at any point inside equipment enclosure
- Remote Controller Digital controller supplied with 10 ft. cable & bracket for installation inside equipment cabinet
- Vibration Package Protects air conditioner components from effects of moderate or severe vibration

4.0 ACCESSORIES

- Replacement Filters Standard
High Capacity

5.0 CODES AND STANDARDS

- ANSI/UL 484 Room Air Conditioners (Special Purpose)
- UL508A Industrial Control Panels (Complies when installed with UL508A approved industrial control panels)
- 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.
- 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
 - 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment
- Hazardous Location Standards
 - ANSI/ISA-12.12.01-2015 Nonincendive Electrical Equipment for use in Class I and II, Division 2 and Class III, division 1 and 2 Hazardous (Classified) Locations
 - CAN/CSA C22.2 No. 213-15 Nonincendive Electrical Equipment for use in Class I and II, Division 2 and Class III, Division 1 and 2 Hazardous (Classified) Locations