

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 Comp	oressor based air conditioner
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• Ambient Operating Temperature $60^{\circ}\text{F} - 118^{\circ}\text{F}$

• Approvals and Stamps $_{C}UL_{US}$ (Safety), $_{C}MET_{US}$ (Haz Loc), CE

• Area Classification Class I, Division 2, Groups A, B, C & D, T6

• UL Type 4X

• Voltage 103.5-126.5 VAC, 60 Hz, 10.63A Inrush, 4.1A Running

207-253 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

Remote Controller

Condenser high pressure switch **Compressor Protection** 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 Thermal/current overload switch (self-resetting) **Compressor Protection** Condenser Filter Standard: Expanded aluminum, 250 micron, 60% efficiency Terminal block **Electrical Connection** 20"H x 10"W x 10"D **Dimensions** 115 V: 44 lbs. Unit Weight 230 V: 49 lbs. Corrugated packaging and pallet Shipping Warranty 5 years 3.0 **OPTIONS** Material Type 316 stainless steel housing, #4 Finish Electrostatic epoxy coated evaporator coil Refrigeration Circuit Protection Epoxy coated refrigeration tubing 2" Pleated, 304 Stainless steel mesh, 250 micron, 94% efficiency High Capacity Condenser Filter 304 or 316 Stainless Steel Louvered Security Filter Cover Low Ambient For operation at ambient temperatures below 60°F Normally open **Dry Contact** (High Temperature Warning) Factory programming of digital controller for Celsius **Custom Programming** temperature or deviation from default settings Monitor & maintain temperature at any point inside equipment **Extended Temperature Probe** enclosure

Digital controller supplied with 10 ft. cable & bracket for

installation inside equipment cabinet

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
EN 60204-1
Refrigerating Systems and Heat Pumps
Electrical Equipment of Machinery

o EN 60529, IP IP Code

o EN 61000-3-11 Electromagnetic Compatibility

○ EN 61000-6-2 Emission○ EN 61000-6-4 Immunity

o 2011/65/EU Restriction of the use of certain hazardous substances in

electrical and electronic equipment

Hazardous Location Standards

o 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

o 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