

**EQUIPMENT DATA SPECIFICATION  
AIR CONDITIONER  
HC151**

**Hazardous Location Package**



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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 – 125°F
- Approvals and Stamps CE
- Area Classification Class 1, Division 2, Groups B, C & D
- NEMA Type 4X
- Voltage 220-240 VAC, 60 Hz, 43.50A Inrush, 11.3A Running  
440-480 VAC, 60 Hz, 20.84A Inrush, 5.41A Running
- BTU Rating 15,000 BTUH, Nominal
- Material Type 304 or 316 Stainless Steel, #4 Finish
- Construction Chassis: Rigid, insulated, closed loop  
Shroud: Seam welded, sloped top, insulated
- Refrigeration Circuit Protection Electrostatic epoxy coated coils
- Condensate Removal Active evaporation utilizing superheated refrigerant coil
- Refrigerant R438a
- 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
    - Evaporator temperature
  - Display
- Compressor Head Pressure Control
  - Pressure controlled condenser fan switch
- Compressor Protection
  - Thermal/current overload switch (self-resetting)
- Condenser Filter
  - Standard: Expanded aluminum, 250 micron, 60% efficiency
- Electrical Connection
  - Terminal block
- Dimensions
  - 230 V: 48”H x 15.9”W x 21.7”D
  - 480 V: 56.6”H x 15.9”W x 21.7”D
- Unit Weight
  - 230 V: 187 lbs.
  - 480 V: 251 lbs.
- Shipping
  - Corrugated packaging and pallet

### 3.0 OPTIONS

- 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 & normally closed
  - (Operation when enclosure temperature exceeds maximum limit)
- Custom Programming
  - Factory programming of digital controller for Celsius temperature or deviation from default settings
- High Ambient
  - For operation at ambient temperatures above 125°F

- Adjustable Temperature Probe Monitor & maintain temperature at any point inside equipment enclosure
- Vibration Package Protects air conditioner components from effects of moderate or severe vibration

#### 4.0 ACCESSORIES

- Replacement Filters Standard  
High Capacity
- Alarm & Controlling Web Server XWEB300D-8B000 – for up to 6 air conditioners  
XWEB300D-8F000 – for up to 18 air conditioners

#### 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
- Hazardous Location Standards
  - ANSI/UL 1203 Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
  - UL 698 Industrial Control Equipment for Use in Hazardous (Classified) Locations
  - ANSI/UL 877 Circuit Breakers and Circuit-Breaker Enclosures for Use in Hazardous (Classified) Locations
  - UL 886 Outlet Boxes and Fittings for Use in Hazardous (Classified) Locations
  - ANSI/UL 894 Switches for Use in Hazardous (Classified) Locations
  - ANSI/UL 1002 Electrically Operated Valves for Use in Hazardous (Classified) Locations
  - ANSI/UL 1010 Receptacle-Plug Combinations for Use in Hazardous (Classified) Locations
  - ANSI/UL 913 Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous (Classified) Locations
  - ANSI/ISA-12.12.01 Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous

- UL 1604 (Classified) Locations  
Electrical Equipment for Use in Class I and II, Division 2, and Class III Hazardous (Classified) Locations
- ANSI/NFPA 496 Purged and Pressurized Enclosures for Electrical Equipment
- IEC 60529 Classification of Degrees of Protection Provided by Enclosures
- CSA-C22.2 No. 30-1986 Explosion-Proof Enclosures for Use in Class I Hazardous Locations
- CSA-C22.2 No. 25-1966 Enclosures for Use in Class II Groups E, F and G Hazardous Locations
- CAN/CSA-E61241-1-1-2002 Limitation - Specification for Apparatus Electrical Apparatus for Use in the Presence of Combustible Dust - Part 1-1: Electrical Apparatus Protected by Enclosures and Surface Temperature
- CAN/CSA-C22.2 No. 157-1992 Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
- CSA-C22.2 No. 213-1987 Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- ANSI/NFPA 496 Purged and Pressurized Enclosures for Electrical Equipment