

# EQUIPMENT DATA SPECIFICATION AIR CONDITIONER

# Security Package HC151



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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  $60^{\circ}\text{F} - 131^{\circ}\text{F}$ 

Approvals and Stamps
 UL, cUL, CE

• UL Type 12 or 4

• Voltage 207-253 VAC, 60 Hz, 43.50A Inrush, 11.3A Running

414-506 VAC, 60 Hz, 20.84A Inrush, 5.7A Running

• BTU Rating 15,000 BTUH, Nominal

Material Type
 Powdered coated mild steel

Construction
 Chassis: Rigid, insulated, closed loop

Shroud: Seam welded, sloped top, insulated

Condensate Removal
 Active evaporation utilizing superheated refrigerant coil

• Refrigerant R438a

Refrigerant Metering
 Thermal expansion valve

• Refrigerant Service Ports High pressure

Low pressure

## Digital Controller

Controls
 Cooling set point

o Cooling set point differential

Compressor protection:

Anti-short cycle delay

o Condenser high temperature limit

Evaporator low pressure limit

Probes displayed:

o Evaporator temperature

Condenser temperature

Auxiliary set points:

o Heater

Dry contact

o Auxiliary set point differential

o Alarms o Enclosure probe failure (P1)

o 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)

Digital controller supplied with 10 ft. cable & bracket for

Evaporator low pressure for 2 minutes (CA)

installation inside againment cohinet

installation inside equipment cabinet

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

Louvered Security Filter Cover
 Powdered coated, cold rolled steel

• Electrical Connection Terminal block

Remote Mount

Power On/Off switch

• Dimensions 230 V: 48"H x 15.9"W x 15.1"D

460 V: 56.6"H x 15.9"W x 15.1"D

Unit Weight 230 V: 170 lbs.

460 V: 247 lbs.

Shipping Corrugated packaging and pallet

•	Warranty	5 years	S
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#### 3.0 OPTIONS

• NEMA Type 4X

• High Capacity Condenser Filter 2" Pleated, 304 Stainless steel mesh, 250 micron, 94% efficiency

• Integrated Heater 500W

1000W

Refrigeration Circuit Protection
 Electrostatic epoxy coated coils, copper tubing brazed with 45%

silver solder & epoxy coated

• Low Ambient For operation at ambient temperatures below 60°F

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 131°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

• Vibration Package Protects air conditioner components from effects of moderate or

severe vibration

• Redundant System Alternating operation of two air conditioners including backup

mode in the event that one unit fails

#### 4.0 ACCESSORIES

Replacement Filters 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

o EN 378-1 through -4 Refrigerating Systems and Heat Pumps

o 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

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