

**EQUIPMENT DATA SPECIFICATION
AIR CONDITIONER
TM081**

Waste Water Treatment Package

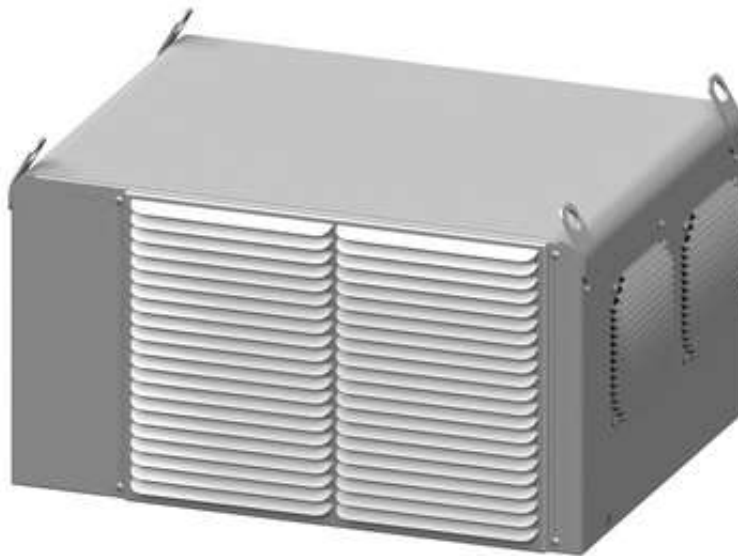


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SPECIFICATION**1.0 SCOPE**

This specification covers the minimum general and specific requirements for the Air Conditioner unit for electrical enclosures.

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 4X
- Voltage 103.5-126.5 VAC, 60 Hz, 43.3A Inrush, 11.6A Running
207-253 VAC, 60 Hz, 33.7A Inrush, 7.0A Running
414-506 VAC, 60 Hz, 16.85A Inrush, 3.5A Running
- BTU Rating 8000 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, copper tubing brazed with 45% silver solder & epoxy coated
- 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
 - 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 Protection Thermal/current overload switch (self-resetting)
- Condenser Filter Filter free
- Electrical Connection Terminal block
Power On/Off switch
- Dimensions 15.6”H x 30.6”W x 20.2”D
- Unit Weight 115 V: 111 lbs.
230 V: 111 lbs.
460 V: 154 lbs.
- Shipping Corrugated packaging and pallet
- Warranty 5 years

3.0 OPTIONS

- Condenser Filter Standard Capacity: Expanded aluminum, 250 micron, 60% efficiency
High Capacity: 2” Pleated, 304 Stainless steel mesh, 250 micron, 94% efficiency
- Integrated Heater 500W
1000W
- Low Ambient For operation at ambient temperatures below 60°F
- Dry Contact Normally open
(Operation when enclosure Normally closed
temperature exceeds maximum limit) Normally open & normally closed
- Remote Controller Digital controller supplied with 10 ft. cable & bracket for
installation inside equipment cabinet
- 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 Standard
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
 - 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