

**EQUIPMENT DATA SPECIFICATION  
AIR CONDITIONER  
NE080**

**Food & Beverage Package**



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**SPECIFICATION****1.0 SCOPE**

This specification covers the minimum general and specific requirements for the Air Conditioner unit that is subject to a regular schedule of plant or machine wash downs with water and/or chemicals.

**2.0 REQUIREMENTS**

- Type of Heat Exchange Compressor based air conditioner
- Ambient Operating Temperature 60°F – 125°F
- Approvals and Stamps UL, cUL, CE
- UL Type 4X
- Voltage 103.5-126.5 VAC, 60 Hz, 42.41A Inrush, 7.83A Running  
207-253 VAC, 60 Hz, 21.15A Inrush, 4.80A Running  
414-506 VAC, 60 Hz, 10.13A Inrush, 2.4A Running
- BTU Rating 8000 BTUH, Nominal
- Material Type 304 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 R422d
- 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)
- 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              304 Stainless Steel
- Electrical Connection                         Terminal block  
Power On/Off switch
- Dimensions                                      115 V / 230 V: 36”H x 11.8”W x 15.1”D  
460 V:    44.63”H x 11.8”W x 15.1”D
- Unit Weight                                      115 V: 102 lbs.  
230 V: 103 lbs.  
460 V: 142 lbs.
- Shipping                                         Corrugated packaging and pallet
- Warranty                                         5 years

**3.0 OPTIONS**

- High Capacity Condenser Filter 2” Pleated, 304 Stainless steel mesh, 250 micron, 94% efficiency
- Filter Hood Additional wash down protection for standard filter
- Material Type 316 Stainless Steel, #4 Finish
- Louvered Security Filter Cover 316 Stainless Steel
- Refrigeration Circuit Protection Electrostatic epoxy coated coils, copper tubing brazed with 45% silver solder & epoxy coated
- Integrated Heater 500W  
1000W
- Low Ambient For operation at ambient temperatures below 60°F
- Remote Controller Digital controller supplied with 10 ft. cable & bracket for installation inside equipment cabinet
- 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 125°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