

**EQUIPMENT DATA SPECIFICATION  
AIR CONDITIONER**

**Telecom & Digital Signage Package  
NE040 (AC Powered)**



## TABLE OF CONTENTS

- 1.0 SCOPE**
- 2.0 REQUIREMENTS**
- 3.0 OPTIONS**
- 4.0 ACCESSORIES**
- 5.0 CODES AND STANDARDS**

## SPECIFICATION

### 1.0 SCOPE

This specification covers the minimum general and specific requirements for the Air Conditioner unit for electrical enclosures used with telecommunications or digital signage outdoor enclosures.

### 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                                        4 or 4X
- Voltage                                        103.5-126.5 VAC, 60 Hz, 23.42A Inrush, 5.15A Running  
207-253 VAC, 60 Hz, 13.65A Inrush, 3.07A Running  
414-506 VAC, 60 Hz, 5.86A Inrush, 1.3A Running
- BTU Rating                                    4000 BTUH, Nominal
- Material Type                                UL Type 4: Powder coated mild steel  
UL Type 4X: 304 or 316 Stainless Steel, #4 Finish
- Construction                                Chassis: Rigid, insulated, closed loop  
Shroud: Seam welded, sloped top, insulated
- 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)
  - Remote Mount
    - Digital controller supplied with 10 ft. cable & bracket for 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
  - UL Type 4: Powder coated mild steel
  - UL Type 4X: 304 or 316 Stainless Steel, #4 Finish
- Electrical Connection
  - Terminal block
  - Power On/Off switch
- Dimensions
  - 115 VAC / 230 VAC: 32”H x 11.8”W x 9.5”D
  - 460 VAC: 38”H x 11.8”W x 9.5”D
- Unit Weight
  - 115 V: 66 lbs.
  - 230 V: 72 lbs.
  - 460 V: 99 lbs.
- Shipping Corrugated packaging and pallet
- Warranty 5 years

**3.0 OPTIONS**

- Condenser Filter High Capacity: 2” Pleated, 304 Stainless steel mesh, 250 micron, 94% efficiency
- 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
- 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