

# EQUIPMENT DATA SPECIFICATION AIR CONDITIONER NE030

# **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 used in all levels of water treatment, disposal or purification.

# 2.0 REQUIREMENTS

•	Type of Heat Exchange	Compressor based air conditioner
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• Ambient Operating Temperature  $60^{\circ}\text{F} - 125^{\circ}\text{F}$ 

Approvals and Stamps
 UL, cUL, CE

• UL Type 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 3000 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 R422d

Refrigerant Metering
 Thermal expansion valve

Refrigerant Service Ports
 High pressure

Low pressure

## Digital Controller

 Cooling set point Controls

Cooling set point differential

Compressor protection:

Anti-short cycle delay

Condenser high temperature limit

Evaporator low pressure limit

Probes displayed:

o Evaporator temperature

o Condenser temperature

Auxiliary set points:

Heater

o 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) 0

Condenser high temperature for 3 minutes (HA2)

Digital controller supplied with 8 ft. cable & bracket for

Condenser low temperature for 3 minutes (LA2)

Evaporator low pressure for 2 minutes (CA)

installation inside equipment cabinet

Compressor Head Pressure Control Pressure controlled condenser fan switch

Thermal/current overload switch (self-resetting) **Compressor Protection** 

Condenser Filter Standard: Expanded aluminum, 250 micron, 60% efficiency

Terminal block **Electrical Connection** 

Remote Mount

Power On/Off switch

115 V / 230 V: 32"H x 11.8"W x 9.5"D **Dimensions** 

> 38"H x 11.8"W x 9.5"D 460 V:

Unit Weight 115 V: 66 lbs.

> 230 V: 72 lbs. 460 V: 99 lbs.

Corrugated packaging and pallet Shipping

Warranty 5 years

### 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

Integrated Heater 500W

1000W

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

Dry Contact Normally open
 (Operation when enclosure Normally closed

(Operation when enclosure Normally closed temperature exceeds maximum limit)

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

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

o EN 60204-1 Electrical Equipment of Machinery

○ EN 60529, IP IP Code

o EN 61000-3-11 Electromagnetic Compatibility

○ EN 61000-6-2 Emission ○ EN 61000-6-4 Immunity