

EQUIPMENT DATA SPECIFICATION AIR CONDITIONER TM061

Waste Water Treatment Package



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.

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, 35.7A Inrush, 10.6A Running 207-253 VAC, 60 Hz, 22.7A Inrush, 6.0A Running 414-506 VAC, 60 Hz, 11.35A Inrush, 3.0A Running
• BTU Rating	6000 BTUH, Nominal
• Material Type	304 or 316 Stainless Steel, #4 Finish
Construction	Chassis:Rigid, insulated, closed loopShroud: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	
 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%efficiencyHigh Capacity: 2" Pleated, 304 Stainless steel mesh, 250micron, 94% efficiency
•	Integrated Heater	500W 1000W
•	Low Ambient	For operation at ambient temperatures below 60°F
•	Dry Contact (Operation when enclosure temperature exceeds maximum limit)	Normally open 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 - 950 W
•	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

4

5.0 CODES AND STANDARDS

- ANSI/UL 484
- ANSI/NFPA 70
- CSA-C22.2 No. 236-M90
- CSA-C22.2 No. 117
- CAN/CSA-C22.1
- EN Harmonized European Standards

 EN 378-1 through -4
 EN 60204-1
 EN 60529, IP
 EN 61000-3-11
 EN 61000-6-2
 EN 61000-6-4
- Room Air Conditioners (Special Purpose) National Electrical Code
- Hasting on the Casting Environment
- Heating and Cooling Equipment Room Air Conditioners (Special Purpose)
- Canadian Electrical Code, Part I.
- Refrigerating Systems and Heat Pumps Electrical Equipment of Machinery IP Code Electromagnetic Compatibility Emission
- Immunity