

Section 8 Specifications

**Specifications are based on nominal voltages of 115 V or 230 V in ambients of 22°C to 25°C.*

Temperature

Control	±0.1°C
Range	+5°C above ambient to +55°C (131°F)
Uniformity	±0.2°C @ +37°C, truncated
Tracking Alarm	Services programmable high/low

Temperature Safety

Setability	0.1°C
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CO₂/O₂

CO ₂ /O ₂ Control	±0.1%
CO ₂ Range	0-20%
O ₂ Overshoot	±0.2%
O ₂ Range	1-20%
Inlet Pressure	15 PSIG (1.034 bars), ±5 PSIG
CO ₂ Sensor	IR or T/C
O ₂ Sensor	Fuel Cell
Readability	0.1%
Setability	0.1%
Tracking Alarm	Service programmable

Humidity

RH	Ambient to 95% @ +37°C (98.6°F)
Humidity Pan	0.8 gal. (3 liters) standard
Optional	Display in 1% increments

Fittings

Fill Port	3/8" (0.95 cm) barbed
Drain Port	1/4" (0.64 cm) barbed
Access Port	1-1/4" (3.18 cm) removable neoprene plug
CO ₂ Inlet	1/4" (0.64 cm) hose barbed

Unit Heat Load

115 V/230 V 344 BTUH (100 Watt)

Shelves

Dimensions	18.5" x 18.5" (47.0 cm x 47.0 cm)
Construction	Stainless steel, perforated, electropolished
Surface area	2.4 sq. ft. (0.22 sq. m) per shelf
Max. per Chamber	38.4 sq.ft. 3.6 sq. m)
Loading	35 lbs (16 kg) slide in and out, 50 lbs (23 kg) stationary
Standard	3
Maximum	16

Construction

Water Jacket Volume	11.7 gal. (43.5 liters)
Interior Volume	6.5 cu. ft. (184.1 liters)
Interior	Type 304, mirror finish, stainless steel
Exterior	18 gauge, cold rolled steel, powder coated
Outer Door Gasket	Four-sided, molded magnetic vinyl
Inner Door Gasket	Removable, cleanable, feather-edged, silicone

Electrical

115V Models	115 VAC, $\pm 10\%$, 50/60 Hz, 1 PH, 3.6 FLA
230V Models	230 VAC, $\pm 10\%$, 50/60 Hz, 1 PH, 2.0 FLA
Circuit Breaker/Power Switch	6 Amp/2 Pole
Convenience Receptacle	75 Watts max. (one per chamber)
Data Outputs	USB, 4-20 mA (optional)
Installation Category	Overvoltage Category II Pollution Degree 2
Maximum Leakage Current	With ground disconnected, 0.65 mA Maximum permissible leakage, 3.5 mA

Dimensions

Interior	21.3" W x 26.8" H x 20.0" F-B (54.1 cm x 68.1 cm x 50.8 cm)
Exterior	26.3" W x 39.5" H x 25.0" F-B (66.8 cm x 100.3 cm x 63.5 cm)

Weight (per unit)

Net	265 lb. (120.2 kg)
Net Operational	365 lb. (165.6 kg)
Shipping	324 lb. (147.0 kg)

Safety Specifications

Indoor Use Only

Altitude 2000 meters

Temperature 5°C to 40°C

Humidity 80% RH at or below 31°C, decreasing linearly to 50% RH at 40°C

Mains Supply Fluctuations Operating Voltage Range

Installation Category 2¹

Pollution Degree 2²

Class of Equipment

¹ Installation category (overvoltage category) defines the level of transient overvoltage which the instrument is designed to withstand safely. It depends on the nature of the electricity supply and its overvoltage protection means. For example, in CAT II which is the category used for instruments in installations supplied from a supply comparable to public mains such as hospital and research laboratories and most industrial laboratories, the expected transient overvoltage is 2500 V for a 230 V supply and 1500 V for a 120 V supply.

² Pollution Degree describes the amount of conductive pollution present in the operating environment. Pollution Degree 2 assumes that normally only non-conductive pollution such as dust occurs with the exception of occasional conductivity caused by condensation.