

## Section 7 Specifications

\*Specifications are based on nominal voltages of 115V or 230V 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
Tracking Alarm	User programmable high/low

### Temperature Safety

Sensor	Precision thermistor
Controller	Independent analog electronic
Setability	0.1°C

### CO<sub>2</sub>/O<sub>2</sub>

CO <sub>2</sub> /O <sub>2</sub> Control	Better than ±0.1%
CO <sub>2</sub> Range	0-20%
O <sub>2</sub> Range	1-20%
Inlet Pressure	15 PSIG (1.034 bars), ±5 PSIG
CO <sub>2</sub> Sensor	T/C or IR
O <sub>2</sub> Sensor	Fuel Cell
Readability	0.1%
Setability	0.1%
Tracking Alarm	User 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" barbed
Drain Port	1/4" barbed
Access Port	1-1/4" (3.18cm) removable neoprene plug
CO <sub>2</sub> Inlet	1/4" hose barbed

**Unit Heat Load**

115V/230V                    344 BTUH (100 Watt)

**Shelves**

Dimensions                    18.5" x 18.5" (47.0cm x 47.0cm)  
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 (16kg) slide in and out,  
   50 lbs (23kg) stationary  
  
Standard                         4  
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                      90-125VAC, 50/60 Hz, 1 PH, 3.6 FLA  
230V Models                      180-250VAC, 50/60 Hz, 1 PH, 2.0 FLA  
Circuit Breaker/Power Switch    6 Amp/2 Pole  
Convenience Receptacle         75 Watts max. (one per chamber)  
Alarm Contacts                    Power interruption, deviation of temp., CO<sub>2</sub>,  
   O<sub>2</sub>, and RH, customer connections through jack  
   on back of unit. 30V, 1A max.  
  
Optional Data Outputs            RS-485, 0-1V, 0-5V, 4-20mA  
Installation Category              Overvoltage Category II  
   Pollution Degree 2  
  
Maximum Leakage Current        With ground disconnected, 0.65mA  
   Maximum permissible leakage, 3.5mA

**Dimensions**

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

**Weight (per unit)**

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

**Safety Specifications**

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 2<sup>1</sup>

Pollution Degree 2<sup>2</sup>

Class of Equipment

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<sup>1</sup> 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 2500V for a 230V supply and 1500V for a 120V supply.

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<sup>2</sup> 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.