

Section 4 Specifications

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

Temperature

Control±0.1°C
Range+5°C above ambient to +55°C (131°F)
Uniformity±0.3°C @ +37°C
Low Temp Tracking Alarm . . Fixed at 1.0°C below setpoint

Temperature Safety

SensorPrecision thermistor
Setability0.1°C

CO₂

CO₂ ControlBetter than ±0.1%
CO₂ Range0-20%
Inlet Pressure15 PSIG (1.034 bars), ±5 PSIG
CO₂ SensorT/C
Readability0.1%
Setability0.1%
Low CO₂ Tracking Alarm . . Fixed at 1.0% below setpoint
High CO₂ Tracking Alarm . .Fixed at 1.0% above setpoint

Humidity

RHAmbient to 95% @ +37°C (98.6°F)
Humidity Pan0.8 gal. (3 liters) standard

Fittings

Fill Port3/8" barbed
Drain Port1/4" barbed
Access Port . .1-1/4" (3.18cm) removable neoprene plug
CO₂ Inlet1/4" hose barbed

Unit Heat Load

115V344 BTUH (100 Watt)

Shelves

Dimensions18.5" x 18.5" (47.0cm x 47.0cm)

ConstructionStainless steel, perforated

Surface area2.4 sq. ft. (0.22 sq. m)

Max. per Chamber54.6 sq. Ft. (5.5 sq. m)

Loading35 lb. (16kg) slide in and out
50 lb. (23kg) stationary

Standard3

Maximum16

Construction

Water Jacket Volume11.7 gal. (43.5 liters)

Interior Volume6.5 cu. ft. (184.1 liters)

InteriorStainless 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

115V90-125VAC, 50/60 Hz, 1 PH, 3.6 FLA

Circuit Breaker/Power Switch6 Amp/2 Pole

Alarm Contacts . Power interruption, deviation of temp., CO₂ customer
connections through jack on back of unit. 30V, 1A max.

Installation CategoryOvervoltage Category II

Pollution Degree 2

Maximum Leakage Current With ground disconnected, 0.65mA

Maximum permissible leakage, 3.5mA

Dimensions

Interior21.3" W x 26.8" H x 20.0" F-B

.....(54.1cm x 68.1cm x 50.8cm)

Exterior26.3" 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 ¹	
Pollution Degree 2 ²	
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 2500V for a 230V supply and 1500V for a 120V 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.