

Section 7 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

Sensor	.....Precision thermistor
Setability	.....0.1°C

CO₂

CO ₂ Control	.....Better than ±0.1%
CO ₂ Range	.....0-20%
Inlet Pressure	.....15 PSIG (1.034 bars), ±5 PSIG
CO ₂ Sensor	.....T/C
Readability	.....0.1%
Setability	.....0.1%
Low CO ₂ Tracking Alarm	.... Fixed at 1.0% below setpoint
High CO ₂ Tracking Alarm	.... Fixed at 1.0% above setpoint

Humidity

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

Fittings

Fill Port	.....3/8" barbed
Drain Port	.....1/4" barbed
Access Port	.....1-1/4" (3.18cm) removable neoprene plug
CO ₂ Inlet	.....1/4" 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) per shelf

Max. per Chamber38.4 sq. ft. (3.6 sq. m)

Loading 35 lbs (16kg) slide in and out, 50 lbs (23kg) stationary

Standard3

Maximum16

Construction

Water Jacket Volume11.7 gal. (43.5 liters)

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

InteriorStainless steel

Exterior18 gauge, cold rolled steel, powder coated

Outer Door GasketFour-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 CurrentWith 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

Indoor use only

Altitude2000 meters

Temperature5°C to 40°C

Humidity80% 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 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.