

Section 7 Specifications

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

Temperature

Control $\pm 0.1^\circ\text{C}$ Microprocessor PID Control
Setpoint Digital - Touch pad, 0.1°C
Range $+5^\circ\text{C}$ above ambient to 50°C
Uniformity $\pm 0.3^\circ\text{C}$ @ $+37^\circ\text{C}$
Tracking alarm..User programmable (low) indicator
Overtemp . . Tracking, user programmable, action, and indicator
Display Digital, LED, 0.1°C increments

Temperature Safety

Type . . . Extreme temperature safety, action, and indicator
Sensor . . Thermostat, independent of temp control system
Indicator . Message center, audible and visual alarms

Relative Humidity

Control Humidity pan - natural vaporization
Humidity w/ pan 95% RH at 37°C

CO₂

Control $\pm 0.1\%$ microprocessor PID control
Sensor T/C or IR
Readability 0.1%
Range 0 to 20%
Inlet pressure 15 psig (1 bar)
Display Digital LED, 0.1% increments

Shelves

Dimensions18.5” x 18.5” (47cm x 47cm)
Construction . . .Stainless steel (belt sanded, both sides)
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
Standard4
Maximum16

Construction

Interior volume6.5 cu. ft. (184 liter)
InteriorType 304 stainless steel shiny finish
Exterior18 gauge cold roll steel
Outer door gasket . .Four-sided molded, magnetic Santoprene
Inner door gasketBulb, silicone
InsulationMineral wool

Fittings

Access port . .1-1/4” (32mm) removable silicone plug
CO₂ inlet1/4” (6.4mm) barbed
Sample portFront mounted barbed

Electrical

.115VAC, 50/60 Hz, 1PH, 9.6 FLA
(Operating range 90-125VAC)
Power switch/circuit breaker . . . 2 Pole, 12.0 Amp
Accessory outlet . . .Voltage equal to the cabinet input.
75 Watts maximum, 0.5ma leakage current
Alarm contacts . . .Deviation of temperature, CO₂, power, NO and NC

Dimensions

Exterior26.1” W x 39.5” H x 25.0” F-B
.(66.3cm x 100.3cm x 63.5cm)
Interior21.3” W x 26.8” H x 20.0” F-B
.(54.0cm x 68.1cm x 50.8cm)

Weight

Net260 lbs (118kg)
Net shipping315 lbs (143kg)

Certifications

The Declaration of Conformity is available on request.

Safety Specifications

Indoor Use Only
Altitude2,000 meters
Temperature5°C to 40°C
Humidity80% RH at or below 31°C,
.decreasing linearly to 50% RH at 40°C
Mains Supply Fluctuations
Mains supply voltage fluctuations not to exceed $\pm 10\%$
of nominal voltage
Installation Category II¹
Pollution Degree 2²
Class of Equipment¹

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.