

Section 7 Specifications

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

Temperature

Control $\pm 0.1^{\circ}\text{C}$ Microprocessor PID Control
SetpointDigital - 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
DisplayDigital, 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

ControlHumidity pan - natural vaporization
Humidity w/ pan95% RH at 37°C
DisplayOptional in 1% increments
AlarmLow RH with optional RH monitor

CO₂

Control $\pm 0.1\%$ microprocessor PID control
SensorT/C or IR
Readability0.1%
Range0 to 20%
Inlet pressure . . . 15 psig (1 bar), ± 5 psig (0.3 bar)
DisplayDigital 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 inch (32mm) removable silicone plug
CO2 inlet1/4" (6.4mm) barbed
Sample portFront mounted barbed

Electrical

115 Volt models
115VAC, 50/60 Hz, 1PH, 9.6 FLA
(Operating range 90-125VAC)
230 Volt models
230VAC, 50/60 Hz, 1 PH, 4.4 FLA
(Operating Range 180-250VAC)
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

Exterior 26.1" W x 39.5" H x 25.0" F-B
 (66.3cm x 100.3cm x 63.5cm)
 Interior 21.3" W x 26.8" H x 20.0" F-B
 (54.0cm x 68.1cm x 50.8cm)

Weight

Net	260 lbs (118kg)
Net shipping	315 lbs (143kg)

Copper Options

Perforated shelf
Customer Installed: P/N 224166 - solid copper

Humidity pan
Customer Installed: P/N 237015 - solid copper

Copper interior components kit
Factory installed: Replace stainless steel duct work, shelves, and
humidity pan with solid copper P/N 1900095

Optional Data Outputs

Analog . . . Factory installed: Stock no. 190544 - 0-1 volt
 Analog . . . Factory installed: Stock no. 190543 - 0-5 volt
 Analog . . . Factory installed: Stock no. 190512 - 4-20mA
 Digital . . . Factory installed: Stock no. 190085 - RS-485
 (Compatible w/ Model 1535 Alarm Monitor only)

Certifications

Refer to the Declaration of Conformity at the end of this manual

Safety Specifications

- Indoor Use Only
- Altitude2,000 meters
- Temperature5°C to 40°C
- Humidity . . .80% RH at or below 31°C, decreasing linearly to 50% RH at 40°C
- Mains Supply Fluctuations
 - Mains supply voltage fluctuations not to exceed ±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.