

Section 7 Specifications

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

Temperature

Control ±0.1°C Microprocessor PID Control
Setpoint Digital - Touch pad, 0.1°C
Range +5°C above ambient to 50°C
Uniformity ±0.2°C @ +37°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 temperature control system
Indicator . . Message center, audible and visual alarms

Relative Humidity

Control Humidity pan - natural vaporization
Humidity with pan 95% RH at 37°C
Display Optional in 1% increments
Alarm Low RH with optional RH monitor

CO₂

Control ±0.1% microprocessor PID control
Sensor T/C or IR
Readability 0.1%
Range 0 to 20%
Inlet pressure 15 psig, ±5 psig
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)
Loading35 lbs (16kg) slide in and out, 50 lbs (23kg) stationary
Standard4
Maximum16

Construction

Interior volume6.5 cu. ft.
InteriorType 304 stainless steel shiny finish
Exterior18 gauge cold roll steel
Outer door gasket . . Four-sided molded, magnetic vinyl
Inner door gasketFeather-edge, removable
InsulationFiberglass

Fittings

Access port1-1/4 inch removable silicone plug
CO₂ inlet1/4” barbed
Sample portFront mounted barbed

Electrical

115 Volt models -
90-125VAC, 50/60 Hz, 1PH, 2.4 FLA
230 Volt models -
180-250, 50/60 Hz, 1 PH, 2.0 FLA
Power switch/circuit breaker2 Pole, 6.0 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

Unit BTU Output

115/230V344 BTUH (100 watt)

Dimensions

Exterior26.0” W x 38.5” H x 25.0” F-B
Interior21.4” W x 26.8” H x 20.0” F-B

Weight

Net Weight Stainless Steel205 lbs

Net Weight Copper230 lbs.

Options/Accessories

HEPA filter . . Factory installed: Stock no. 190858

Battery back-up . . Free Standing: Stock no. 270078, 120VAC, 60Hz

Stock no. 270082, 220VAC, 50Hz

Humidity . . Factory installed: Stock no. 190463 - provides humidity readout and low alarm

Inner door kit . . Customer installed: Stock no. 190650 - independent eight separate glass doors

Built-in Gas Guard . . Factory installed: Stock no. 190640 - CO₂ only, automatically switches supply tanks

Recorders . . Customer installed: Standard recorders used on water-jacket incubators

Decontamination kits

HEPA filter, blower assembly, inner door gasket, etc. -

Stock no. 190868 (with HEPA filter),

Stock no. 190869 (without HEPA filter)

Copper Options

Interior ductwork .Solid copper: Stock no. 190725

Perforated shelfCustomer Installed: Stock no. 224166 - solid copper

Humidity PanCustomer Installed: Stock no. 237015 - solid copper

Copper interior kitFactory installed: Replace stainless steel duct work, shelves, and

humidity pan with solid copper Stock no. 190870

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. 190523 - RS-485

(Compatible with Model 1535 Alarm Monitor only)

Certifications

Refer to the Declarations of Conformity at the back of this manual

Safety Specifications

Indoor Use Only

Altitude - 2,000 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 - Mains supply voltage fluctuations not to exceed $\pm 10\%$ of the nominal voltage

Installation Category II ¹

Pollution Degree 2 ²

Class of Equipment I

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.