Section 8 **Specifications**

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

Temperature

Control ±0.1°C

Range $+5^{\circ}\text{C}$ above ambient to $+55^{\circ}\text{C}$ (131°F)

Uniformity ±0.2°C @ +37°C, truncated

Tracking Alarm Services programmable high/low

Temperature Safety

Setability 0.1°C

CO_2/O_2

 CO_2/O_2 Control $\pm 0.1\%$ CO_2 Range 0-20% 02 Overshoot $\pm 0.2\%$ 0_2 Range 1-20%

Inlet Pressure 15 PSIG (1.034 bars), ±5 PSIG

 CO_2 Sensor IR or T/C O_2 Sensor Fuel Cell Readability 0.1% Setability 0.1%

Tracking Alarm Service programmable

Humidity

RH Ambient to 95% @ +37°C (98.6°F)

Humidity Pan 0.8 gal. (3 liters) standard Optional Display in 1% increments

Fittings

Fill Port 3/8" (0.95 cm) barbed Drain Port 1/4" (0.64 cm) barbed

Access Port 1-1/4" (3.18 cm) removable neoprene plug

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CO₂ Inlet 1/4" (0.64 cm) hose barbed

Thermo Scientific Water Jacketed CO₂ Incubator

Section 8

8-2

Specifications

Unit Heat Load

115 V/230 V 344 BTUH (100 Watt)

Shelves

Dimensions 18.5" x 18.5" (47.0 cm x 47.0 cm)

Construction Stainless steel, perforated, electropolished

Surface area 2.4 sq. ft. (0.22 sq. m) per shelf

Max. per Chamber 38.4 sq.ft. 3.6 sq. m)

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

50 lbs (23 kg) stationary

Standard 3 Maximum 16

Construction

Water Jacket Volume 11.7 gal. (43.5 liters)

Interior Volume 6.5 cu. ft. (184.1 liters)

Interior Type 304, mirror finish, stainless 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

115 VAC, ±10%, 50/60 Hz, 1 PH, 3.6 FLA 230 V Models 230 VAC, ±10%, 50/60 Hz, 1 PH, 2.0 FLA

Circuit Breaker/Power Switch 6 Amp/2 Pole

Convenience Receptacle 75 Watts max. (one per chamber)

Data Outputs USB, 4-20 mA (optional) Installation Category Overvoltage Category II

Pollution Degree 2

Maximum Leakage Current With ground disconnected, 0.65 mA

Maximum permissible leakage, 3.5 mA

Dimensions

Interior 21.3" W x 26.8" H x 20.0" F-B

(54.1 cm x 68.1 cm x 50.8 cm)

Exterior 26.3" W x 39.5" H x 25.0" F-B

(66.8 cm x 100.3 cm x 63.5 cm)

Weight (per unit)

 Net
 265 lb. (120.2 kg)

 Net Operational
 365 lb. (165.6 kg)

 Shipping
 324 lb. (147.0 kg)

Water Jacketed CO₂ Incubator Thermo Scientific

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Safety Specifications

Indoor Use Only

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 2¹ Pollution Degree 2² Class of Equipment

Thermo Scientific Water Jacketed CO₂ Incubator

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 2500 V for a 230 V supply and 1500 V for a 120 V 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.