# Section 10 Specifications*

**Temperature**

Control. . . . . ±0.1°C @ 37.0°C
Setpoint. . . . . Digital touch pad, 0.1°C resolution
Range . . . . 5°C over ambient to 50°C, factory default 10.0°C (disabled)
Uniformity . ±0.2°C@+37°C, in a 23°C ambient @ nominal line voltage
Display . . . . . Digital, LED, 0.1°C increments
Sensor . . . . . Thermistor

**Over Temperature Protection**

Setpoint . . . . . Fixed @ 160°C, ±5.6°C
Sensor . . . . . Thermostat, manual reset
Action . . . . . removes voltage from heaters to disable heat control

**Relative Humidity**

Control. . . . . ±2.0%
Range . . . . . Ambient level to 90%**
Controller . . . . . Microprocessor
Humidity system . . . . . 95% RH at 37°C
Setpoint. . . . . Digital touch pad, 1% resolution
Display . . . . . Digital LED, 1% resolution

**$CO_2$**

Control . . . . . ±0.1% @ 5.0%
Sensor. . . . . Infrared
Setpoint. . . . . Digital touch pad, 0.1°C resolution
Range . . . . . 0 to 20%, factory default 0% (disabled)
Inlet Pressure. . . . . 15 PSIG, ±5 PSIG
Controller . . . . . Microprocessor
Display . . . . . Digital LED, 0.1% increments

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

***Humidity greater than or equal to 90% may lead to condensation depending on environmental conditions in the work area.*

**Shelves**

Standard . . . . . 5
Maximum . . . . . 22
Construction . . . . . Stainless steel, perforated
Clearance . . . . . Adjustable on 1.160" centers
Dimensions (3307/3308) . . . 17.7" x 19.9" (45.2cm x 50.5cm)
Surface area . . . . . 2.4 sq. ft. per shelf
Dimensions (3310/3311) . . . .25.7" x 19.9" (65.5cm x 50.5cm)
Surface area . . . . . 3.6 sq. ft. per shelf
Loading . . . . . 50 lbs. (22.7kg) stationary

**Sterilization Cycle**

Setpoint . . . . . 140°C
Cycle time . . Approximately 14 hours @ 23°C, nominal line voltage
Activation . . . . . Digital touch pad

**Construction**

Interior volume
3307/3308 . . . . . 8.2 cu. ft. (232.2 liters)
3310/3311 . . . . . 11.4 cu. ft. (322.8 liters)
Interior. . . Type 304 stainless steel mirror finish, coved corners
Exterior . . . . . 18 gauge cold rolled steel, powder-coated
Outer door gasket . . . . . Four-sided, molded, magnetic vinyl
Inner door gasket . . . . . Silicone feather
Insulation. . . . . Mineral wool

**Fittings**

Access port . . . . . 1.4" (3.6cm) with removable silicone plug
$CO_2$ inlet . . . . . 1/4" (0.64cm) hose barbed
Drain port . . . . . 3/8" (0.95cm) barbed fitting with shutoff

**Electrical**

115VAC, 50/60 Hz, 1PH (Operating range 90-125VAC), . . .
Model 3307 10.5 FLA, Model 3310 11.5 FLA
Circuit breaker power switch . . 15A, 2 Pole (Model 3307/3310)

230VAC, 50/60 Hz, 1 PH (Operating Range 180-250VAC)
Model 3308 5.4 FLA, Model 3311 5.9 FLA
Circuit breaker power switch . . 10A, 2 Pole (Model 3308/3311)

Power interconnect . . . . . IEC 320, male

Power inlet cord . . . 8' (2.4m) cord with IEC 320 female plug and country specific plug

Accessory outlet . . Standard, 115V/220V export, 75 watts max. (one per chamber)

Alarm contacts . . .Deviation of temperature, CO2, RH, power failure. N/O and N/C

**Dimensions**

Exterior . . (3307/3308)35.0" W x 39.4" H x 27.0" F-B (88.9cm x 100.1cm x 68.6cm)
(3310/3311)43.0" W x 39.4" H x 27.0" F-B (109.2cm x 100.1cm x 68.6cm)

**Weight**

Net weight. . . . . Model 3307/3308 - 330 lbs. (149.7kg), . .
Model 3310/3311 - 410 lbs. (186.0kg)
Shipping (motor) . . . .Model 3307/3308 - 400 lbs. (181.4kg),
Model 3310/3311 - 480 lbs. (217.7kg)

### Certifications

Declarations of Conformity available on request

### Safety Specifications

Indoor Use Only

Altitude. . . . . Up to 2,000 meters

Temperature . . . . . 5°C to 40°C

Humidity . . . Maximum 80% RH for temperatures up to 31°C, decreasing linearly to 50% RH at 40°C

Mains Supply Fluctuations . . Mains supply voltage fluctuations not to exceed ±10% of the nominal voltage

Installation Category II [1]

Pollution Degree 2 [2]

Class of Equipment I

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[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.