

# Incubators

## CO<sub>2</sub>

### Incubator, CO<sub>2</sub>, large capacity, Thermo Scientific®, Reach-In



- Provides the extra space required for large experiments and long term, valuable storage
- Convenient larger 29.0cu.ft. capacity easily accommodates shakers, bioreactors, and other related equipment within its tightly controlled environment
- High quality stainless steel interior
- Heated glass door prevents unwanted condensation
- Casters for easy mobility

Maximum volume for high throughput requirements.



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#### Technical Specification - General

|                          |  |
|--------------------------|--|
| No. of shelves           | Takes 27, 5 supplied                                       |
| Output                   | Optional RS-485, 0V to 1V, 0V to 5V and 4mA to 20mA        |
| Sensor                   | Accuracy: (+/-) 0.1° C                                     |
| Range, °C                | 5 above ambient to 60                                      |
| Readability              | 0.1° C   |
| Uniformity, °C           | (+/-) 0.1  |
| Relative humidity        | Range: >90% at 37°C, selectable<br>Source: 15.1L reservoir |
| CO <sub>2</sub> range, % | 0 to 20  |
| Control                  | 0.10%  |
| Inlet pressure           | 15PSIG (1.0bar) required                                   |
| Capacity, L              | 821  |
| Dimensions, external, mm | 965 x 2032 x 838   |
| Dimensions, internal, mm | 787 x 1,524 x 686  |
| Mass, kg                 | 226.8 (500 lbs)  |
| Electrical supply        | 230V, 50/60Hz  |

| Catalogue No | Legacy No | Alt. No | Description               |
|--------------|-----------|---------|---------------------------|
| 10042483     | -         | 3951    | CO <sub>2</sub> incubator |

### Incubators, CO<sub>2</sub>, Thermo Scientific Forma Steri-Cult®

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- Designed for easy cleaning
- 100% HEPA filtration for rapid response class 100 air quality
- On demand sterilisation cycle
- External humidification system
- Controls and displays: temperature, CO<sub>2</sub> and RH
- Includes handy programming controls, and provides the peace of mind of audible/visual alarms and a silence button



The innovative Thermo Scientific Forma Steri-Cult® combines the most advanced components available into a single incubator.

With IR CO<sub>2</sub> sensor, precise microprocessor controls, active humidity control, HEPA air filtration and high temperature decontamination capability.

#### Technical Specification - Specific

| Model No.                            | 3308              | 3311                |
|--------------------------------------|-------------------|---------------------|
| Dimensions, external [w x d x h], mm | 889 x 686 x 1,001 | 1,092 x 686 x 1,001 |
| Dimensions, internal [w x d x h], mm | 528 x 523 x 833   | 732 x 523 x 833     |
| Shelf size [w x d], mm               | 452 x 505         | 655 x 505           |
| Capacity, L                          | 232.2             | 322.8               |

#### Technical Specification - General

|                                     |  |
|-------------------------------------|--|
| Construction / design               | Interior: Type 304 mirror finish, stainless steel<br>Exterior: 18 gauge, cold-rolled steel, powder coated<br>Inner door: 6mm fully tempered safety glass with cam action latch<br>Four-sided, moulded, magnetic outer door gasket<br>Feather-edged silicone, inner door gasket |
| Temperature control, °C             | ±0.1 at 37   |
| Temperature control/ sensor         | Microprocessor control<br>Thermistor sensor  |
| Temperature range, °C               | 5 over ambient to 50   |
| Temperature setting and display     | Digital LED  |
| CO <sub>2</sub> control             | ±0.1% at 5.0%  |
| CO <sub>2</sub> range, %            | 0 to 20  |
| CO <sub>2</sub> calibration         | Auto-zero  |
| Inlet pressure                      | 15PSIG (1.0bar)  |
| Filter                              | 0.2µm, disposable  |
| CO <sub>2</sub> controller / sensor | Microprocessor control<br>Dual beam IR sensor  |
| CO <sub>2</sub> deviation alarm     | User programmable high/low   |
| Relative humidity                   | Ambient to 95% RH, non-condensing  |
| Humidity                            | 2% control<br>Capacitive sensor<br>Microprocessor controller   |
| Fittings                            | 9.5mm Drain port: 3/8 inch barbed with shutoff<br>Access port: 36mm with removable silicone plug<br>6.4mm CO <sub>2</sub> inlet: 1/4 inch hose (barbed)  |

| Catalogue No | Legacy No | Alt. No | Description       |
|--------------|-----------|---------|-------------------|
| 10103392     | -         | 3308    | Incubator, 232.2L |
| 10123532     | -         | 3311    | Incubator, 322.8L |