



CERTOMAT® CO₂ Incubators for Cell Cultivation



Benefits

- accurate CO₂ control
- fast CO₂ level recovery after door opening
- improved temperature stability
- humidity control
- preventive contamination control
- easy handling and maintenance
- stackable two units high

CO₂ control

The effective combination of an infrared sensor and a PID controller offers a stable CO₂ environment and fast recovery of CO₂ levels after door opening.

When the door is opened for 30 sec, the CO₂ level is back to the set value after 3 min compared to 7 min for conventional systems.

Temperature control

The Direct Heat-Air Jacket system together with three separate PID-controlled heaters (main incubation chamber, water pan and outer door) provides high temperature stability and minimizes the risk of condensation.

Humidity control

The humidity level is established by a water pan with a separate bottom heater and an optical water level sensor.

Preventive contamination control

The interior walls and shelves of CERTOMAT® CO₂ Incubators are made from a new material – copper-enriched stainless steel – that combines the bactericidal properties of copper with the corrosion-resistance of stainless steel. This material has proven to eliminate mycoplasma and significantly reduce bacterial growth.

A novel UV irradiation system with a programmable, ozone-free UV lamp placed in the air flow sterilizes chamber air and water in the humidifying pan. The UV source is shielded from the culture area by the tray cover of the water pan. Culture dishes and flasks effectively shield the growing cultures from UV interference.

Easy handling and maintenance

Auto Calibration of the CO₂ sensor using room air as a reference ensures accurate CO₂ control and prevents CO₂ drift.

Temperature and CO₂ values are established after entering by the microprocessor of the automatic setup system.

Optimal use of space

Two units of CERTOMAT® CO₂ Incubators can be stacked simply by using the fixing frame supplied as a standard accessory.

Specifications

| | CERTOMAT CS-18 | CERTOMAT CS-20 |
|---------------------------------------|--|--------------------|
| Exterior dimensions (W × D × H) | 620 × 710 × 900 mm | 770 × 708 × 900 mm |
| Interior dimensions (W × D × H) | 490 × 523 × 665 mm | 620 × 523 × 665 mm |
| Volume | 170 L | 215 L |
| Weight | 93 kg | 106 kg |
| Temperature range | RT + 5°C to 50°C | RT + 5°C to 50°C |
| Temperature uniformity | +/- 0.25 °C | +/- 0.25 °C |
| Temperature control | +/- 0.1 °C | +/- 0.1 °C |
| CO ₂ range | 0 to 20% | 0 to 20% |
| CO ₂ control | +/- 0.15% | +/- 0.15% |
| Chamber humidity (at 20°C, 60% RH) | 95 +/- 5% RH | 95 +/- 5% RH |
| Air filter (for CO ₂) | 0.3 µm | 0.3 µm |
| Alarm system | High low temperature, CO ₂ deviation, door, low water, independent overheat protection | |
| Remote alarm contacts | 30 V DC, 2A allowable | |

Ordering information

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| CERTOMAT CS-18 CO ₂ Incubator, BBI-8863385 | 230 V / 50 Hz |
| CERTOMAT CS-20 CO ₂ Incubator, BBI-8863393 | 230 V / 50 Hz |

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