Optimising cell culture outcomes and reproducibility

**IncuSafe CO₂ Incubators**

IncuSafe CO₂ Incubators provide precise control of CO₂ concentration and accurate, uniform, and highly responsive temperature control within the chamber. During cell culturing the inCu-saFe germicidal interior and SafeCell UV lamp work continuously to prevent contamination.

### Precise & Regulated Environment

InCu-saFe and SafeCell UV both function to prevent contamination. The direct heat system and melamine foam insulation ensure optimal temperature distribution throughout the chamber whilst the Dual IR sensor controls the CO₂ level.

### Dual Heat Sterilisation

Dual heat sterilisation utilises the incubator’s two heaters during the 180°C sterilisation process, which takes 11 hours. There is no effect on temperature inside stacked incubators due to low heat dissipation, cell culturing can continue uninterrupted.

### Ease of Use & Maintenance

A full colour LCD touch-screen allows full control even with gloved hands. Transfer of data is easy via a USB port. The easy-to-clean incubator interior features fully rounded corners and integrated shelf supports.

### Optimum Cell Growth

Outstanding quality and performance for successful cell growth, optimal results and reproducibility. Perfect fit for the strictest and most sensitive protocols.

### Efficient Workflows

No need to remove inner parts or recalibrate after sterilisation, therefore laboratory processes are more efficient with less incubator downtime.

### Intuitive Usability

Control and visibility of the internal conditions, such as CO₂ level and temperature, is easy with the MCO-170AICD CO₂ incubator.
Simultaneous Use of Stacked Units

IncuSafe CO₂ Incubators

Melamine Foam Insulation and Direct Heat
Achieves accurate, uniform, and highly responsive temperature control within the chamber, providing exceptional uniformity and rapid recovery after door-openings.

Dual IR CO₂ Sensor
The incubator’s Dual IR sensor and P.I.D control enables ultra-fast CO₂ recovery without overshoot, even following multiple door-openings.

Active Background Decontamination
The inCu-saFe copper-enriched stainless steel alloy interior offers the germicidal properties of copper and the durability of stainless steel.

The optional, isolated, SafeCell UV lamp decontaminates circulating air and water in the humidifying pan, without harming cultured cells.

Simultaneous Use of Stacked Units
The melamine foam insulation limits heat dissipation during dry heat sterilisation. This means that cell culture can continue uninterrupted in incubators stacked with those actively running sterilisation.

Model Number | MCO-170AICD-PE | MCO-170ACUVD-PE
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External Dimensions (W x D x H) | mm | 629 x 755 x 905 | 627 x 750 x 905
Internal Dimensions (W x D x H) | mm | 496 x 523 x 845 | 496 x 523 x 845
Volume | liters | 165 | 165
Net Weight | kg | 79 | 80

**Performance**
- Temperature Control Range & Fluctuation °C AT ±5 ~ ±50, ±0.1
- Temperature Uniformity° °C ±0.25
- CO₂ Control Range & Fluctuation % 0 ~ 20, ±0.15
- Humidity Level & Fluctuation %RH 95 ±5
- Sterilisation Method Dry heat sterilisation, 180°C, 11 hours

**Control**
- Temperature Sensor Thermistor
- CO₂ Sensor Dual IR
- Display LCD Touch Screen

**Construction**
- Exterior Material Painted Steel (rear cover not painted)
- Interior Material Stainless Steel Copper-Enriched Alloy
- Insulation Material Melamine resin foam
- Heating Method Heater jacket
- Outer Door qty 1
- Outer Door Lock Standard
- Field Reversible Door Included
- Inner Door qty 1
- Shelves qty 4 x Stainless Steel Copper-enriched Alloy
- Shelf Dimensions (W x D x H) mm 470 x 450 x 12
- Max. Load per Shelf kg 7
- Max. Shelf Capacity qty 10
- Access Port qty 1
- Access Port Position Rear Upper Left
- Access Port Diameter Ø mm 30

**Alarms**
- Power Failure R
- Out of Temperature Setting V-B-R
- High Temperature V-B-R
- Out of CO₂ Setting V-B-R
- Door open V-B

**Electrical and Noise Level**
- Power Supply V 230
- Frequency Hz 50
- Noise Level dB 25

**Options**
- SafeCell UV® System MCO-170UVSD-PE Standard
- Electric Door Lock with Password Standard
- Multiple Inner Doors N/A
- CO₂ Gas Pressure Regulator MCO-010R-PW
- Automatic CO₂ Cylinder Changeover System MCO-21GC-PW
- Semi-automatic one point Gas Calibration Kit MCO-5G-PW
- InCu-saFe® Shelf MCO-170ST-PW
- InCu-saFe® Half Tray System MCO-25ST-PW
- Double Stacking Bracket* MCO-170PS-PW
- Stacking Plate* MCO-170SB-PW
- Roller Base MCO-170RB-PW
- Optional communication systems4)
- Analogue interface (4-20mA) MCO-420MA-PW

Appearance and specifications are subject to change without notice.

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1) Exterior dimensions of main cabinet only, excluding handle and other external projections – See dimensions drawings on website for full details.
2) ±25°C, ambient temp 23°C, setting 37°C, CO₂ 5%, no load
3) Nominal value
4) MCO-170AICD series can only be fitted with one communications interface.

For medical use: The MCO-170AICD series is certified as a Class IIa Medical Device (93/42/EEC and 2007/47/EC). Applicable countries: Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Ireland, Italy, Liechtenstein, Luxembourg, Malta, the Netherlands, Spain, Switzerland and the United Kingdom only

For laboratory use: Applicable countries: EEA countries, Switzerland and Turkey

**EEA, Switzerland and Turkey only**

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