

IncuSafe

Multigas Incubators

49 L



MCO-5M-PE



Personal-size compact Multigas Incubator

Patient-specific, compact design, triple stackable **IncuSafe** Multigas Incubator with variable CO₂ and O₂ control to simulate *in vivo* conditions. During cell culturing, the inCu-saFe germicidal interior and SafeCell UV lamp work continuously to prevent contamination.

Reproduction of *in vivo* conditions

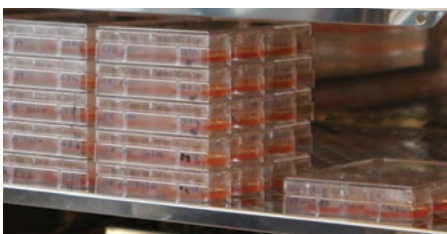
With a unique, solid-state zirconia sensor for precise oxygen control (1-18%; 22-80%), the MCO-5M Multigas Incubator is able to reproduce low oxygen concentrations found in many tissues and organs.

Stackable Design

The compact design of the MCO-5M Multigas Incubator allows up to three units to be stacked, increasing the interior volume without the need for additional floor space.

Control & Monitoring

Optimal visibility and control of the interior conditions of the incubator can be achieved through use of its accurate digital display and an easy-to-operate control-panel.



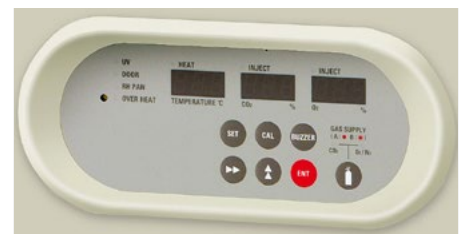
Sensitive Cell Culturing

Culturing cells at physiological oxygen levels allows them to grow faster and live longer, and reduces the frequency of mutations.



Individual Cell Culturing

Compact and stackable these incubators are ideal for individual cell cultures from patient samples or small scale research projects and hypoxic studies.



Intuitive Usability

Control and visibility of the internal conditions, such as CO₂, O₂ levels and temperature, is easy with the MCO-5M multigas incubator.

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Direct Heat and Air Jacket System

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

Zirconia O₂ Sensor

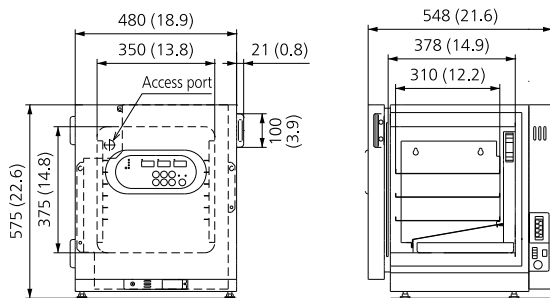
The incubator's unique, solid-state, Zirconia O₂ sensor delivers precise control of physiological oxygen levels to simulate *in vivo* conditions. The sensor maintains long-term high accuracy, while offering a long life-span, and does not require periodic calibration.

TC CO₂ Sensor

The Incubator's thermal conductivity sensor and P.I.D control system delivers reliable and repeatable CO₂ control. The CO₂ setpoint is adjustable from 0 to 20%.

Active Background Decontamination

The exclusive 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.



| Model Number | | MCO-5M-PE | MCO-5MUV-PE |
|---|--------|---|-------------|
| External Dimensions (W x D x H) ¹⁾ | mm | 480 x 548 x 575 | |
| Internal Dimensions (W x D x H) | mm | 350 x 378 x 375 | |
| Volume | liters | 49 | |
| Net Weight | kg | 50 | |
| Performance | | | |
| Temperature Control Range & Fluctuation | °C | AT +5 ~ +50, ±0.1 | |
| Temperature Uniformity ²⁾ | °C | ±0.25 | |
| CO ₂ Control Range & Fluctuation ³⁾ | % | 0 ~ 20, ±0.15 | |
| O ₂ control range & Fluctuation ⁴⁾ | % | 1 -18 and 22 - 80, ±0.2 | |
| Humidity Level & Fluctuation | %RH | 95, ±5 | |
| Control | | | |
| Temperature Sensor | | Thermistor | |
| CO ₂ Sensor | | TC | |
| O ₂ Sensor | | Stabilized Zirconia Sensor | |
| Display | | LED | |
| Construction | | | |
| Exterior Material | | Painted Steel | |
| Interior Material | | Stainless Steel Copper-Enriched Alloy | |
| Insulation Material | | Rigid polyurethane foamed-in place | |
| Heating Method | | Direct Heat & Air Jacket System | |
| Outer Door | qty | 1 | |
| Outer Door Lock | | N/A | |
| Field Reversible Door | | Included | |
| Inner Door | qty | 1 | |
| Shelves | qty | 3 x Stainless Steel Copper-enriched Alloy | |
| Shelf Dimensions (W x D x H) | mm | 310 x 310 x 12 | |
| Max. Load per Shelf | kg | 4 | |
| Max. Shelf Capacity | qty | 6 | |
| Access Port | qty | 1 | |
| Access Port Position | | Rear upper left | |
| Access Port Diameter | Ø mm | 30 | |
| Alarms (R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm) | | | |
| Power Failure | | N/A | |
| Out of Temperature Setting | | V-B-R | |
| High Temperature | | V-B-R | |
| Out of CO ₂ Setting | | V-B-R | |
| Out of O ₂ setting | | V-B-R | |
| Door open | | V | |
| Electrical and Noise Level | | | |
| Power Supply | V | 230 | |
| Frequency | Hz | 50 | |
| Noise Level ⁵⁾ | dB | 24 | |
| Options | | | |
| SafeCell UV® System | | MCO-19UVS-PE | Standard |
| Multiple Inner Doors | | N/A | |
| CO ₂ Gas Pressure Regulator | | MCO-100L-PW | |
| N ₂ Gas Pressure Regulator | | | |
| Automatic CO ₂ Cylinder Changeover System | | MCO-5GC-PW | |
| InCu-saFe® Shelf | | MCO-30ST-PW | |
| InCu-saFe® Half Tray System | | N/A | |
| Stacking Kit | | Standard | |
| Roller Base | | MCO-5RB-PW | |
| Optional communication systems ⁶⁾ | | | |
| Ethernet interface (LAN) | | N/A | |
| Digital interface (RS232C/RS485) | | MTR-480-PW | |

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other external projections
^{2,3,4, 4)} Ambient temperature 25°C, setting 37°C, CO₂ 5%, O₂ 5%, no load

⁵⁾ Nominal value
⁶⁾ MCO-5M series can only be fitted with one communications interface.



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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