

IncuSafe

CO₂ Incubators

49 L



MCO-5AC-PE



Personal-size compact CO₂ Incubator

Patient-specific, compact design, triple stackable CO₂ Incubator. Provides 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.

Controlled & Regulated Environment

InCu-saFe and SafeCell UV both function to prevent contamination. The Direct Heat and Air Jacket System regulates the temperature whilst the TC sensor controls the CO₂ level.

Stackable Design

The compact design of the MCO-5AC CO₂ incubator allows up to three units to be stacked, increasing the interior volume without the need for additional floor space.

Monitoring & Control

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.



Optimum Cell Growth

Outstanding quality and performance for successful cell growth, optimal results and reproducibility.



Individual Cell Culturing

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



Intuitive Usability

Control and visibility of the internal conditions, such as CO₂ level and temperature, are easy with the MCO-5AC CO₂ incubator.

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Direct Heat and Air Jacket System

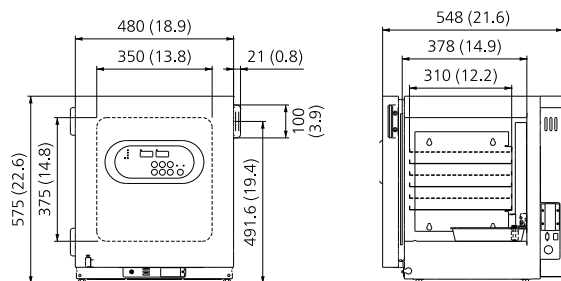
Achieves accurate, uniform, and highly responsive temperature control within the chamber, providing exceptional uniformity and rapid recovery after door-opening.

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 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-5AC-PE	MCO-5ACUV-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	49
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
Humidity Level & Fluctuation	%RH	95, ±5
Control		
Temperature Sensor		Thermistor
CO ₂ Sensor		TC
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	∅ 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
Door open		V
Electrical and Noise Level		
Power Supply	V	230
Frequency	Hz	50
Noise Level ⁴⁾	dB	24
Options		
SafeCell UV [®] System	MCO-19UVS-PE	Standard
Multiple Inner Doors		N/A
CO ₂ Gas Pressure Regulator		MCO-100L-PW
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 systems⁵⁾		
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)} Ambient temperature 25°C, setting 37°C, CO₂ 5%, O₂ 5%, no load

⁴⁾ Nominal value

⁵⁾ MCO-5AC series can only be fitted with one communications interface.



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