PHCBi

Incu*Safe*

CO_2 Incubators

49 L

MCO-5AC-PE

Personal-size compact CO_2 Incubator

Patient-specific, compact design, triple stackable CO_2 Incubator. Provides precise control of CO_2 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 CO_2 level.

Stackable Design

The compact design of the MCO-5AC CO_2 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 CO_2 level and temperature, are easy with the MCO-5AC CO_2 incubator.

PHC Europe B.V.
Formerly Known as Panasonic Biomedical Sales Europe

Incu*Safe* CO$_2$ Incubators
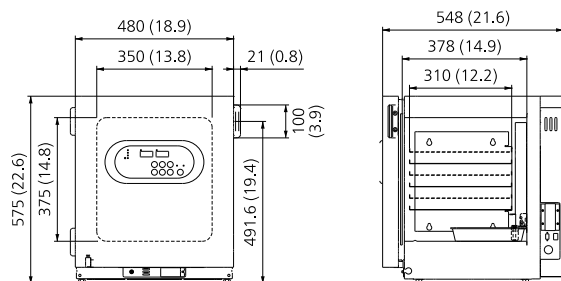
Direct Heat and Air Jacket System

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

TC CO$_2$ Sensor

The incubator's thermal conductivity sensor and P.I.D control system delivers reliable and repeatable CO$_2$ control. The CO$_2$ 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	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	
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 systems [5]			
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, CO$_2$ 5%, O$_2$ 5%, no load
[4] Nominal value
[5] MCO-5AC series can only be fitted with one communications interface.

480 (18.9) 350 (13.8) 21 (0.8) 575 (22.6) 375 (14.8) 491.6 (19.4) 100 (3.9)
548 (21.6) 378 (14.9) 310 (12.2)