



MCO-170AIC-PE

IncuSafe

CO, Incubators

165 L













Optimising cell culture outcomes and reproducibility

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 and Air Jacket System regulates the temperature whilst the Dual IR sensor controls the CO, level.

Time-Saving Decontamination

The high-speed decontamination system uses vaporised hydrogen peroxide and UV light. It cleans the chamber of the incubator safely in less than three hours, achieving a minimal 6 log reduction of major contaminants.

Ease of Use & Maintenance

A full colour LCD touchscreen allows full control even with gloved hands. Transfer of data is easy via a USB port. The easy-toclean 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

Complete laboratory procedures and experiments more efficiently with less incubator downtime. Ideal for commercial applications.



Intuitive Usability

Control and visibility of the internal conditions, such as CO_2 level and temperature, is easy with the MCO-170AIC CO_2 incubator.

IncuSafe CO, 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-openings.

Dual IR CO, Sensor

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

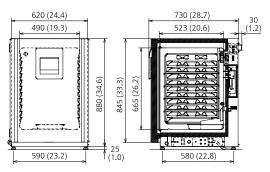
Active Background Decontamination

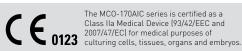
The exclusive inCu-saFe copper-enriched stainless steel alloy interor offers the germicidal properties of copper and the durability of stainless steel.

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

Condensation Management

With a unique antibacterial coating, the 'dew stick'—controlled by Peltier technology condenses water on its surface, which then drips into the humidifying pan, preventing unwanted condensation in the chamber and possible contamination.







PHC Europe B.V. Nijverheidsweg 120 | 4879 AZ Etten-Leur | Netherlands T: +31 (0) 76 543 3839 | F: +31 (0) 76 541 3732 www.phchd.com/eu/biomedical

Model Number		MCO-170AIC-PE MCO-170AICUV-PE MCO-170AICUVH-F
External Dimensions (W x D x H) ¹⁾	mm	620 x 730 x 905
Internal Dimensions (W x D x H)	mm	490 x 523 x 665
Volume	liters	165
Net Weight	kg	80
Performance	, and the second	
Temperature Control Range & Fluctuation	°C	AT +5 ~ +50, ±0.1
Temperature Uniformity ²⁾	°C	±0.25
CO, Control Range & Fluctuation	%	0 ~ 20, ±0.15
Humidity Level & Fluctuation	%RH	95, ±5
Sterilisation Method	701(11	H ₂ O ₂ Decontamination
Control		Ti ₂ O ₂ Decontamination
Temperature Sensor		Thermistor
CO ₂ Sensor		Dual IR
*		LCD Touch Screen
Display		LCD Touch Screen
Construction		2111211
Exterior Material		Painted Steel (rear cover not painted)
Interior Material		Stainless Steel Copper-Enriched Alloy
Insulation Material		Extruded polystyrene
Heating Method		Direct Heat & Air Jacket System
Outer Door	qty	1
Outer Door Lock		Optional Optional Standard
Field Reversible Door		Included
Inner Door	qty	1 gastight - made of tempered glass
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		(R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm)
Power Failure		R
Out of Temperature Setting		V-B-R
High Temperature		V-B-R
Out of CO ₂ Setting		V-B-R
Door open		V-B
Electrical and Noise Level		
Power Supply	V	230
Frequency	Hz	50
Noise Level ³⁾	dB	29
Options	45	
SafeCell UV® System		MC0-170UVS-PE ⁴⁾ Standard
H ₂ O ₂ Decontamination Board		
Electric Door Lock with Password		MCO-170EL-PW ⁴ Standard
H ₂ O ₂ Vapor Generator		MCO-HP-PW ⁴
H ₂ O ₂ Reagent, pack of 6 bottles		MC0-H202-PE
Multiple Inner Doors		MCO-170ID-PW
CO ₂ Gas Pressure Regulator		MCO-100L-PW
		MCO-21GC-PW
Automatic CO ₂ Cylinder Changeover System		MCO-SG-PW
Semi-automatic one point Gas Calibration Kit		MCO-170ST-PW
Semi-automatic one point Gas Calibration Kit		MCO-170ST-PW MCO-25ST-PW
Semi-automatic one point Gas Calibration Kit InCu-saFe® Shelf InCu-saFe® Half Tray System		
Semi-automatic one point Gas Calibration Kit InCu-saFe® Shelf InCu-saFe® Half Tray System Double Stacking Bracket*		MC0-25ST-PW
Semi-automatic one point Gas Calibration Kit InCu-saFe® Shelf InCu-saFe® Half Tray System Double Stacking Bracket* Stacking Plate*		MC0-25ST-PW MC0-170PS-PW
Semi-automatic one point Gas Calibration Kit InCu-saFe® Shelf InCu-saFe® Half Tray System Double Stacking Bracket* Stacking Plate* Roller Base		MC0-25ST-PW MC0-170PS-PW MC0-170SB-PW
Semi-automatic one point Gas Calibration Kit InCu-saFe® Shelf InCu-saFe® Half Tray System Double Stacking Bracket* Stacking Plate* Roller Base Optional communication systems ⁷⁾		MC0-25ST-PW MC0-170PS-PW MC0-170SB-PW
Automatic CO ₂ Cylinder Changeover System Semi-automatic one point Gas Calibration Kit InCu-saFe® Shelf InCu-saFe® Half Tray System Double Stacking Bracket* Stacking Plate* Roller Base Optional communication systems ⁷⁷ Ethernet interface (LAN) Digital interface (RS232C/RS485)		MCO-25ST-PW MCO-170PS-PW MCO-170SB-PW MCO-170RB-PW

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other

[&]quot;Exterior dimensions of main cabinet only, excluding handle and other external projections.

"±0.25°C; ambient temp 23°C - 25°C, setting 37°C, C0, 5%, no load
"Nominal value
4MCO-170AIC series requires MCO-170HB-PE, MCO-170EL-PW,
MCO-HP-PW and SafeCell UV option for H,0, decontamination
"MCO-170AIC series can only be fitted with one communications interface.

^{*} If stacking two incubators, make sure the double-stacking dedicated securing hardware and spacer are used