



IncuSafe Multigas Incubators



So comfortable, your cells will feel in vivo IncuSafe

Multigas Incubators optimise mammalian cell cultures through variable $CO_2 \& O_2$ control to simulate *in vivo* conditions. The MCO-170M helps to achieve more accurate results and higher reproducibility when culturing cells at controlled physiological oxygen levels.

MC0-170M-PE

Reproduction of in vivo conditions

With a unique, solid-state, zirconia sensor for precise oxygen control (1-18%; 22-80%) the MCO-170M Multigas Incubator is able to reproduce the low oxygen concentrations found in many tissues and organs.

Time-Saving Decontamination

The high-speed decontamination system uses vaporized hydrogen peroxide and UV light to safely clean the chamber in less than 3 hours, with at least a 6 log reduction of major contaminants.

Ease of Use & Maintenance

161 L

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



Sensitive Cell Culturing

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



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 , levels, and temperature, is easy with the MCO-170M 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.

Dual IR CO, Sensor

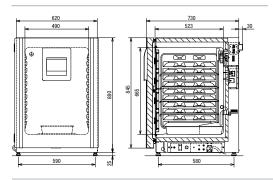
The incubator's Dual IR sensor and P.I.D control enables ultra-fast CO, recovery without overshoot, even following multiple door-openings.

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

The 'dew stick'-controlled by Peltier technologycondenses water on its surface, which then drips into the humidifying pan, preventing unwanted condensation in the chamber and possible contamination.



EEA, Switzerland and Turkey only

For medical use

CE 0123 The MCO-170M series are certified as a Class IIa Medical Device (93/42/EC 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 CE

PHC Europe

A Member of PHC Group

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Model Number		MC0-170M-PE	MCO-170MUV-PE**	MCO-170MUVH-PE**
External Dimensions (W x D x H) ^{1]}	mm		620 x 710 x 905	
Internal Dimensions (W x D x H)	mm	490 x 523 x 665		
Volume	liters	161		
Net Weight	kg	79		
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		
O2 control range & Fluctuation4	%	1 -18 and 22 - 80, ±0.2		
Humidity Level & Fluctuation	%RH	95, ±5		
H ₂ O ₂ Decontamination		Optional	Optional	Standard
Control				
Temperature Sensor		Thermistor		
CO ₂ Sensor		Dual IR		
0, Sensor		Stabilized Zirconia Sensor		
Display		LCD Touch Screen		
Construction				
Exterior Material		Paint	ed Steel (rear cover not	painted)
Interior Material		Stainless Steel Copper-Enriched Alloy		
Insulation Material		Expandable Polystyrene Beads		
Heating Method		Direct Heat & Air Jacket System		
Outer Door	qty	1		
Outer Door Lock	17	Optional Optional Standard		
Field Reversible Door		Included		
Inner Doors	qty	4 gastight - made of tempered glass		
Shelves	qty	3 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		1		
Access Port Position	qty	Rear Upper Left		
Access Port Diameter	Ømm	30		
Alarms	Ømm	(D – Domoto Alorm	V = Visual Alarm, B = B	
Power Failure		(K – Keniote Atarin,	R R	Juzzer Atarini)
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-B		
Electrical and Noise Level			V-D	
	V		230	
Power Supply				
Frequency	Hz	50 25		
Noise Level ⁵⁾	dB		25	
Options			Cha	- de rad
SafeCell UV® System		MCO-170UVS-PE		ndard
H ₂ O ₂ Decontamination Board			70HB-PE	Standard
Electric Door Lock with Password		MCO-1	70EL-PW6	Standard
H ₂ O ₂ Vapor Generator		MCO-HP-PW ⁶⁾		
H ₂ O ₂ Reagent, pack of 6 bottles		MCO-H2O2-PE		
Multiple Inner Doors		Standard		
CO ₂ Gas Pressure Regulator			MCO-010R-PW	
N ₂ Gas Pressure Regulator				
Automatic CO_2 Cylinder Changeover System		MC0-21GC-PW		
Semi-automatic one point Gas Calibration Kit		MCO-SG-PW		
InCu-saFe® Shelf		MCO-170ST-PW		
InCu-saFe® Half Tray System		MC0-25ST-PW		
Double Stacking Bracket*		MCO-170PS-PW		
Stacking Plate*		MC0-170SB-PW		
Roller Base		MCO-170RB-PW		
			MCU-I/UKB-PW	
Roller Base			MCO 17000 DW	

MC0-170M-PE MC0-170MUV-PE** MC0-170MUVH-PE**

Appearance and specifications are subject to change without notice

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other external projections ^{23.8.4} Ambient temperature 23°C, setting 37°C, CO₂ 5%, O₂ 5%, no load

[®] Nominal value [®] Nominal value [®] MCO-170M series requires MCO-170HB-PE, MCO-170EL-PW, MCO-HP-PW and SafeCell UV option for H₂O₂ decontamination

⁷ MCO-170M 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. ** These models are supplied as MCO-170M-PE with required options installed