



IncuSafe CO₂ Incubators 165 L

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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.

MCO-170AIC-PE

Precise & Regulated Environment

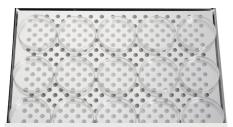
InCu-saFe and SafeCell UV both function to prevent contamination. The Direct Heat and Air Jacket System regulates the temperature whilst the Dual IR sensor controls the CO₂ level.

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 CO₂ 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 dooropenings.

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

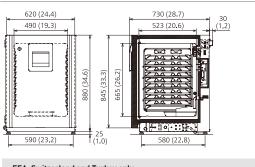
The exclusive inCu-saFe copper-enriched stainless steel alloy interor offers the germicidal properties of copper and the durability of stainless steel. The optional, isolated, SafeCell UV lamp decontaminates circulating air and water in the humidifying pan, without harming cultured cells.

Condensation Management

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.

Cleanroom-compatibility

The MCO-170AICUVH-PE is classified as ISO class 5.0 for usage in a cleanroom. Cleanroom classification was determined in accordance with ISO 14644-1 - Part 14: Assessment of suitability for use of equipment by airborne particle concentration.



EEA, Switzerland and Turkey only

For medical use **CE**₀₁₂₃ The MCO-170AIC series is certified as a Class IIa Medical Device (93/42/EEC 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 CE

Applicable countries: EEA countries, Switzerland and Turkey

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Model Number		MC0-170AIC-PE	MC0-170AICUV-PE	MC0-170AICUVH-PE
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		
Classification	5			
ISO clean room classification 6			5.0	
Performance				
Temperature Control Range & Fluctuation	°C	AT +5 ~ +50, ±0.1		
Temperature Uniformity ²⁾	°C	±0.25		
CO ₂ Control Range & Fluctuation	%	0 ~ 20, ±0.15		
Humidity Level & Fluctuation	%RH	95, ±5		
Sterilisation Method		H ₂ O, Decontamination		
Control			2 2	
Temperature Sensor			Thermistor	
CO, Sensor		Dual IR		
Display		I CD Touch Screen		
Construction				
Exterior Material	_	Paint	ed Steel (rear cover not	painted
Interior Material		Painted Steel (rear cover not painted) Stainless Steel Copper-Enriched Alloy		
Insulation Material		Extruded polystyrene		
Heating Method		Extruded polystyrene Direct Heat & Air Jacket System		
Outer Door	qty	1		
Outer Door Lock	Ччу	Optional	Optional	Standard
Field Reversible Door		Optionat	Included	Stanuaru
Inner Door	atu	1 gas tight - made of tempered glass		
Shelves	qty	4 x Stainless Steel Copper-enriched Alloy		
Shelf Dimensions (W x D x H)	qty mm	4 x Stainless Steel Copper-enriched Alloy 470 x 450 x 12		
		4/U x 45U x 12 7		
Max. Load per Shelf	kg	10		
Max. Shelf Capacity Access Port	qty	1		
Access Port Access Port Position	qty			
Access Port Diameter	Ømm	Rear Upper Left		
Alarms	Ømm	(R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm)		
Power Failure		(K = Kemote Atarm,	R	Suzzer Alarmi
Out of Temperature Setting		V-B-R		
		V-B-R		
High Temperature Out of CO, Setting		V-B-R		
Door open		V-B		
Electrical and Noise Level			V-D	
Power Supply	V		230	
Frequency	Hz	50		
Noise Level ³	dB	29		
Options	uр			
SafeCell UV® System		MCO-170UVS-PE4)	Sta	ndard
H ₂ O ₂ Decontamination Board			70HB-PE4	Standard
Electric Door Lock with Password			70EL-PW4)	Standard
H ₂ O ₂ Vapor Generator		1000-1	MCO-HP-PW4	Standal u
4 6 ¹		MCU-HP-PW*' MCO-H202-PE		
H ₂ O ₂ Reagent, pack of 6 bottles Multiple Inner Doors		MCO-17202-FL MCO-170ID-PW		
		MCO-1701D-PW MCO-010R-PW		
CO ₂ Gas Pressure Regulator Automatic CO ₂ Cylinder Changeover System		MCO-21GC-PW		
Semi-automatic one point Gas Calibration Kit		MC0-SG-PW		
InCu-saFe® Shelf		MCO-30-PW MCO-170ST-PW		
InCu-saFe® Half Tray System		MCO-25ST-PW		
		MC0-2351-FW MC0-170PS-PW		
Double Stacking Bracket*		MC0-170PS-PW MC0-170SB-PW		
Stacking Plate*				
Roller Base		MC0-170RB-PW		
Optional communication systems ⁵			N00 (00)	
Analogue interface (4-20mA)		tice.	MCO-420MA-PW	

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

external projections. ²¹±0.25°C; ambient temp 23°C - 25°C, setting 37°C, CO₂ 5%, no load ³¹Nominal value

MCO-170AIC series requires MCO-170HB-PE, MCO-170EL-PW,

* MCD-17/JAL Series Requires MCD-17/JB-PE, MCD-17/JEL-PW, MCD-HP-PW and SafeCeLUV option for N₂O₂ decontamination ⁹ Can only be fitted with one communications interface. ⁴ Cleanroom classification in accordance with ISO 14644-1 - Part 14: Assessment of suitability for use of equipment by airborne particle concentration. * If stacking two incubators, make sure the double-stacking dedicated securion hardware and spacer are used dedicated securing hardware and spacer are used