MCO-170AIC-PE

IncuSafe

CO_2 Incubators

165 L

DIRECT HEAT system | IR dual sensor | inCu saFe | SafeCell UV | H_2O_2 decontamination | MDD medical device directive | ISO cleanroom classified 14644-1 – Part 14

Optimising cell culture outcomes and reproducibility

IncuSafe CO_2 Incubators provide 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.

Precise & Regulated Environment

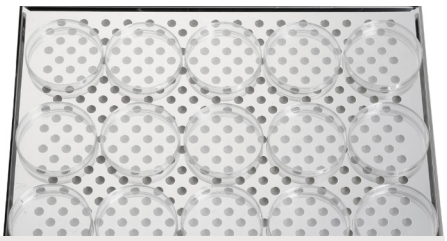
InCu-saFe and SafeCell UV both function to prevent contamination. The Direct Heat and Air Jacket System regulates the temperature whilst the Dual IR sensor controls the CO_2 level.

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 touch-screen allows full control even with gloved hands. Transfer of data is easy via a USB port. The easy-to-clean 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_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-openings.

Dual IR CO_2 Sensor

The incubator's Dual IR sensor and P.I.D control enables ultra-fast CO_2 recovery without overshoot, even following multiple door-openings.

Active Background Decontamination

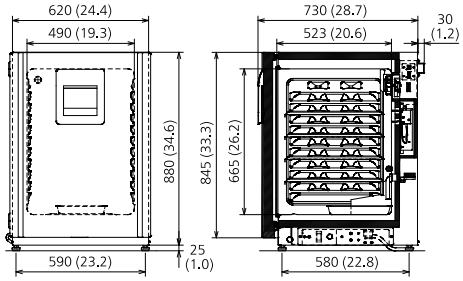
The exclusive inCu-saFe copper-enriched stainless steel alloy interor offers the germicidal properties of copper and the durability of stainless steel. The optional, isolated, SafeCell UV lamp decontaminates circulating air and water in the humidifying pan, without harming cultured cells.

Condensation Management

The 'dew stick'—controlled by Peltier technology—condenses 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

CE 0123 **For medical use**
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

CE **For laboratory use**
Applicable countries: EEA countries, Switzerland and Turkey

Model Number		MCO-170AIC-PE	MCO-170AICUV-PE	MCO-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				
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		
H_2O_2 Decontamination		Optional	Optional	Standard
Control				
Temperature Sensor		Thermistor		
CO_2 Sensor		Dual IR		
Display		LCD Touch Screen		
Construction				
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 gas tight - 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				
SafeCell UV® System		MCO-170UVS-PE[4]	Standard	
H_2O_2 Decontamination Board		MCO-170HB-PE[4]		Standard
Electric Door Lock with Password		MCO-170EL-PW[4]		Standard
H_2O_2 Vapor Generator		MCO-HP-PW[4]		
H_2O_2 Reagent, pack of 6 bottles		MCO-H2O2-PE		
Multiple Inner Doors		MCO-170ID-PW		
CO_2 Gas Pressure Regulator		MCO-010R-PW		
Automatic CO_2 Cylinder Changeover System		MCO-21GC-PW		
Semi-automatic one point Gas Calibration Kit		MCO-SG-PW		
InCu-saFe® Shelf		MCO-170ST-PW		
InCu-saFe® Half Tray System		MCO-25ST-PW		
Double Stacking Bracket*		MCO-170PS-PW		
Stacking Plate*		MCO-170SB-PW		
Roller Base		MCO-170RB-PW		
Optional communication systems [5]				
Analogue interface (4-20mA)		MCO-420MA-PW		

Appearance and specifications are subject to change without notice.

[1] Exterior dimensions of main cabinet only, excluding handle and other external projections.
[2] ±0.25°C; ambient temp 23°C - 25°C, setting 37°C, CO_2 5%, no load
[3] Nominal value
[4] MCO-170AIC series requires MCO-170HB-PE, MCO-170EL-PW, MCO-HP-PW and SafeCell UV option for H_2O_2 decontamination
[5] Can only be fitted with one communications interface.
[6] 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 securing hardware and spacer are used.

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