



MCO-170AIC-PE

# **Incu**Safe

CO<sub>2</sub> Incubators

165 L















Optimising cell culture outcomes and reproducibility

IncuSafe CO<sub>2</sub> Incubators provide precise control of CO<sub>2</sub> 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  $\mathrm{CO}_2$  level and temperature, is easy with the MCO-170AIC  $\mathrm{CO}_2$  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 CO<sub>2</sub> recovery without overshoot, even following multiple door-openings.

#### **Active Background Decontamination**

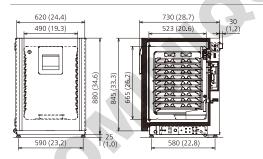
The exclusive inCu-saFe copper-enriched stainless steel alloy interor offers the germicidal properties of copper and the durability of stainless steel. The optional, isolated, SafeCell UV lamp decontaminates circulating air and water in the humidifying pan, without harming cultured cells.

#### **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



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

Applicable countries: EEA countries, Switzerland and Turkey



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Model Number		MCO-170AIC-PE MCO-170AICUV-PE	MCO-170AICUVH-PI
External Dimensions (W x D x H) <sup>1)</sup>	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	, J		
ISO clean room classification 6		5.0	
Performance			
Temperature Control Range & Fluctuation	°C	AT +5 ~ +50, ±0.1	
Temperature Uniformity <sup>2)</sup>	°C	±0.25	
CO, Control Range & Fluctuation	%	0 ~ 20, ±0.15	
Humidity Level & Fluctuation	%RH	95, ±5	
Sterilisation Method		H <sub>2</sub> O <sub>2</sub> Decontamination	
Control		2 2	
Temperature Sensor		Thermistor	
CO <sub>2</sub> Sensor		Dual IR	
Display		LCD Touch Screen	
Construction			
Exterior Material		Painted Steel (rear cover not	nainted
Interior Material		Stainless Steel Copper-Enriched Alloy	
Insulation Material		Extruded polystyrene	
Heating Method		Direct Heat & Air Jacket System	
Outer Door	atv	1	
Outer Door Lock	qty	Optional Optional	Standard
Field Reversible Door		Included	Stalldard
Inner Door			
Shelves	qty	1 gas tight - made of tempered glass	
	qty	4 x Stainless Steel Copper-enriched Alloy 470 x 450 x 12	
Shelf Dimensions (W x D x H)	mm		
Max. Load per Shelf	kg	7	
Max. Shelf Capacity	qty	10	
Access Port	qty	1	
Access Port Position		Rear Upper Left 30	
Access Port Diameter	Ømm		
Alarms		(R = Remote Alarm, V = Visual Alarm, B = E	Buzzer Alarm)
Power Failure		R	
Out of Temperature Setting		V-B-R	
High Temperature		V-B-R	
Out of CO <sub>2</sub> Setting		V-B-R	
Door open		V-B	
Electrical and Noise Level			
Power Supply	V	230	
Frequency	Hz	50	
Noise Level <sup>3</sup>	dB	29	
Options		NOO 17011/C DE/	
SafeCell UV® System			ndard
H <sub>2</sub> O <sub>2</sub> Decontamination Board		MCO-170HB-PE <sup>4)</sup>	Standard
Electric Door Lock with Password		MCO-170EL-PW <sup>4)</sup>	Standard
H <sub>2</sub> O <sub>2</sub> Vapor Generator		MCO-HP-PW <sup>4</sup> )	
H <sub>2</sub> O <sub>2</sub> Reagent, pack of 6 bottles		MC0-H202-PE	
Multiple Inner Doors		MCO-170ID-PW	
CO <sub>2</sub> Gas Pressure Regulator		MCO-010R-PW	
Automatic CO <sub>2</sub> Cylinder Changeover System		MCO-21GC-PW	
Semi-automatic one point Gas Calibration Kit		MCO-SG-PW	
nCu-saFe® Shelf		MCO-170ST-PW	
nCu-saFe® Half Tray System		MCO-25ST-PW	
Double Stacking Bracket*		MC0-170PS-PW	
Stacking Plate*		MCO-170SB-PW	
Roller Base		MCO-170RB-PW	
Optional communication systems <sup>5)</sup>			
Analogue interface (4-20mA)		MCO-420MA-PW	

Appearance and specifications are subject to change without notice

<sup>1)</sup> Exterior dimensions of main cabinet only, excluding handle and other external projections

 $<sup>^2\</sup>pm 0.25^{\circ}\mathrm{C}$  ; ambient temp 23°C - 25°C, setting 37°C, CO $_2$ 5%, no load  $^3$  Nominal value

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

<sup>&</sup>quot;MCO-HP-PW and SafeCell UV option for H<sub>2</sub>O<sub>2</sub> decontamination SC an only be fitted with one communications interface. 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 bardware and spacer are used.

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