



MCO-173AIC-PE

## IncuSafe

CO<sub>2</sub> Incubators

165 L



(option\*)

(option\*\*)

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### 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-LED lamp work continuously to prevent contamination.

#### Precise & Regulated Environment

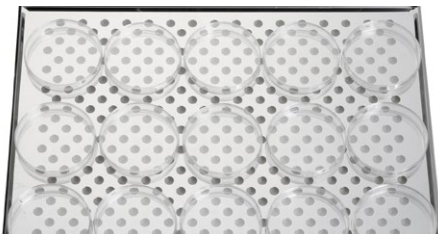
InCu-saFe and SafeCell UV-LED both function to prevent contamination. The Direct Heat and Air Jacket System regulates the temperature whilst the Dual IR sensor controls the CO<sub>2</sub> level.

#### Time-Saving Decontamination

The high-speed decontamination system uses vaporised hydrogen peroxide and UV-LED 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<sub>2</sub> level and temperature, is easy with the MCO-173AIC CO<sub>2</sub> incubator.

\* Standard for Models MCO-173AICUV-PE/MCO-173AICUVH-PE  
 \*\* Standard for Model MCO-173AICUVH-PE

# IncuSafe CO<sub>2</sub> 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<sub>2</sub> 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.

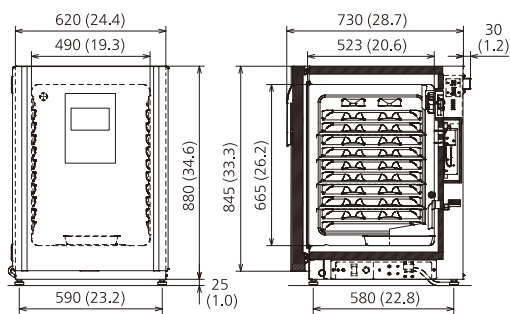
## Active Background Decontamination

The exclusive inCu-saFe copper-enriched stainless steel alloy interior offers the germicidal properties of copper and the durability of stainless steel. The optional, isolated, SafeCell UV-LED 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.

## Dimensions



Model Number		MCO-173IC-PE	MCO-173AICUV-PE	MCO-173AICUVH-PE
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	69		
<b>Performance</b>				
Temperature Control Range & Fluctuation	°C	AT +5 - +50, ±0.1		
Temperature Uniformity <sup>2)</sup>	°C	±0.25		
CO <sub>2</sub> Control Range & Fluctuation	%	0 - 20, ±0.15		
Humidity Level & Fluctuation	%RH	95, ±5		
H <sub>2</sub> O <sub>2</sub> Decontamination		Optional	Optional	Standard
<b>Control</b>				
Temperature Sensor		Thermistor		
CO <sub>2</sub> Sensor		Dual IR		
Display		LCD Touch Screen		
<b>Construction</b>				
Exterior Material		Painted Steel (rear cover not painted)		
Interior Material		Stainless Steel Copper-Enriched Alloy		
Insulation Material		Expandable styrene-acrylonitrile beads		
Heating Method		Direct Heat & Air Jacket System		
Outer Door	qty	1		
Electric Door lock with Password		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	∅ mm	30		
<b>Alarms</b> (R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm)				
Power Failure		V-B-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		
<b>Electrical and Noise Level</b>				
Power Supply	V	230		
Frequency	Hz	50		
Noise Level <sup>3)</sup>	dB	29		
<b>Options</b>				
SafeCell UV-LED® System		MCO-LUVS-PW <sup>4)</sup>	Standard	
H <sub>2</sub> O <sub>2</sub> Decontamination Board		MCO-170HB-PE <sup>4)</sup>	Standard	
H <sub>2</sub> O <sub>2</sub> Vapor Generator		MCO-50HP-PW <sup>4)</sup>		
H <sub>2</sub> O <sub>2</sub> Reagent, pack of 6 bottles		MCO-20H2O2-PE		
Multiple Inner Doors		MCO-173ID-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		
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		
<b>Communication systems</b> <sup>5)</sup>				
Analogue interface (4-20mA)		Standard		
Mod-bus interface board		MTR-MODB1-PW		
OPC-UA interface board		MTR-OPC1-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> ±0.25°C; ambient temp 23°C - 25°C, setting 37°C, CO<sub>2</sub> 5%, no load

<sup>3)</sup> Nominal value

<sup>4)</sup> MCO-173AIC-PE requires MCO-170HB-PE, MCO-HP-PW and SafeCell UV-LED option for H<sub>2</sub>O<sub>2</sub> decontamination

<sup>5)</sup> Can only be fitted with one communications interface.

\* If stacking two incubators, make sure the double-stacking dedicated securing hardware and spacer are used.

#) 0123 Available in these countries as Class IIa Medical Device: Austria, Belgium, Cyprus, France, Germany, Ireland, Italy, Liechtenstein, Luxembourg, Malta, the Netherlands, Poland, Spain, Switzerland and the United Kingdom.  
 Available as equipment for laboratory use in: EEA countries, Switzerland, the United Kingdom and Turkey.

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