

CO₂ Incubators

165 L



MCO-170AIC-PE

Delivering long-term performance, optimal cell viability and successful experiments, each Panasonic incubator provides precise control of CO₂ concentration and temperature, while remaining easy to operate and maintain.

Precise & Regulated Environment

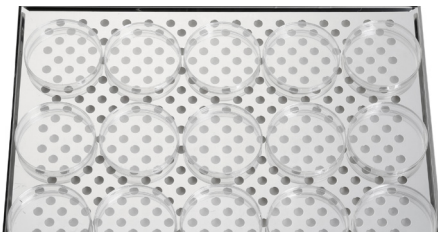
InCu-saFe® and SafeCell UV function together to prevent contamination. The patented Direct Heat and Air Jacket system works with the Dual IR sensor to regulate temperature and CO₂ levels, respectively.

Time-Saving Decontamination

Panasonic's 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.

Improved Use & Maintenance

We have designed our incubators with ease of use and efficiency in mind. By delivering a user friendly cell culture incubator with rapid systems and processes, Panasonic can help make your work as simple as possible.



Optimum cell growth

Panasonic CO₂ incubators offer outstanding quality in performance for successful cell growth, optimum results and reproducibility.



Increasing work efficiency

Conduct your lab's processes and experiments more efficiently with less incubator downtime.



Intuitive Usability

Easy control and visibility of CO₂ temperature, and other internal conditions of your MCO-170AIC CO₂ incubator.

CO₂ Incubators



DHA Direct heat & Air Jacket System

Provides high precision temperature control for advanced uniformity and rapid recovery after door opening.

Rapid CO₂ Recovery

The PID controller and Dual Infra Red sensor achieves ultra-fast CO₂ recovery without overshoot, even following multiple door openings.

Germicidal Interior

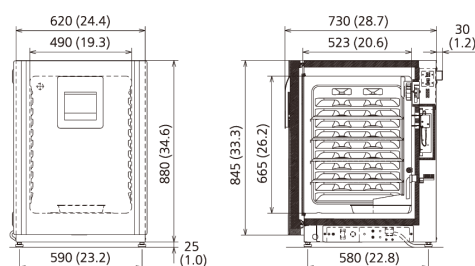
InCu-saFe[®] copper-enriched stainless steel alloy offers the germicidal properties of copper, as well as the corrosion resistance of stainless steel.

Proactive Contamination Control

The optional Isolated UV lamp decontaminates circulating air and the water in the humidifying pan without harming cultured cells.

Condensation Management

With a unique antibacterial coating, 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.



The MCO-170AIC series is certified as a Class IIa Medical Device (93/42/EEC and 2007/47/EC) for medical purposes of culturing cells, tissues, organs and embryos.

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		
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		
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		
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		
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 ₂ O ₂ Decontamination Board		MCO-170HB-PE ⁴⁾	Standard	
Electric Door Lock with Password		MCO-170EL-PW ⁴⁾	Standard	
H ₂ O ₂ Vapor Generator		MCO-HP-PW ⁴⁾		
H ₂ O ₂ Reagent, pack of 6 bottles		MCO-H2O2-PE		
Multiple Inner Doors		MCO-170ID-PW		
CO ₂ Gas Pressure Regulator		MCO-100L-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 systems⁷⁾				
Ethernet interface (LAN)		MTR-L03-PW		
Digital interface (RS232C/RS485)		MTR-480-PW		

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, CO₂ 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 H₂O₂ decontamination

⁵⁾ MCO-170AIC 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.

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For more information, please visit our website:

www.biomedical.panasonic.eu