



MCO-230AICUV-PA

cellIQ™

Large Capacity CO₂ Incubators

8.1 cu.ft. | 230 L

Enhance the production of your cell culture experiments with Panasonic's large capacity CO₂ incubator. Ideal for high throughput culturing or protocols that may require the use of an experimental apparatus.

Precise & Regulated Environment

InCu-saFe® and SafeCell UV functions together to prevent contamination. The patented Direct Heat and Air Jacket system works with the IR2 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 three hours, while providing 100% kill rate with at least a 6 log reduction of major contaminants.

Improved Use & Increased Capacity

The LCD touch panel delivers full control over protocols even with gloved hands. Integrated shelf channels make cleaning easy within a large interior and allow more capacity for cell culture containers and apparatuses.



High-Value Cell Culturing

Grow sensitive cells in a precisely regulated environment.



Efficient Workflows

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



Scale-up Experiments

Ideal for projects that may require higher throughput or an external apparatus.

Cell/Q™ Large Capacity CO₂ Incubators

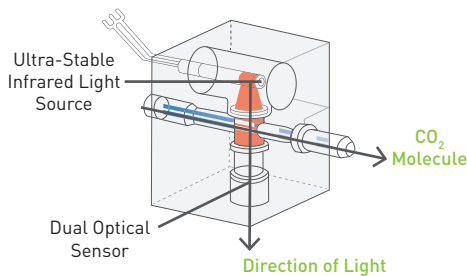


Direct Heat & Air Jacket System

Accurate temperature levels are regulated by the Direct Heat and Air Jacket system which functions under microprocessor control.

Rapid CO₂ Recovery

A proprietary IR2 sensor achieves ultra-fast CO₂ recovery without overshoot, even following multiple door openings.



Germicidal Interior

The InCu-saFe® copper-enriched stainless steel alloy interior offers germicidal properties of elemental copper, without corrosion and discoloration.

Proactive Contamination Control

An isolated UV lamp decontaminates circulating air and the humidity water reservoir without harming cultured cells.

Condensation Management

With unique antibacterial coating, the dew stick—controlled by Peltier technology— attracts water drops to its surface, which then fall back into the humidity pan, preventing unwanted condensation in the chamber.



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Model Number	MCO-230AICUV-PA		MCO-230AICUVH-PA	
External Dimensions (W x D x H) ¹⁾	inches mm	30.3 x 28.7 x 35.6 770 x 730 x 905		
Internal Dimensions (W x D x H)	inches mm	25.3 x 20.6 x 27.6 643 x 523 x 700		
Volume	cu.ft. liters	8.1 230		
Net Weight	kg lbs.	198 90		
Performance				
Temperature Control Range & Fluctuation	°C	Ambient +5 to +50, ±0.1		
Temperature Uniformity ²⁾	°C	±0.25		
CO ₂ Control Range & Fluctuation ²⁾	%	0 to 20, ±0.15		
Humidity Level & Fluctuation	%RH	95, ±5		
Control				
Temperature Sensor		Thermistor		
CO ₂ Sensor		Dual Filter IR		
Display		LCD Touch Screen		
Construction				
Exterior Material		Painted Steel (rear cover not painted)		
Interior Material		Stainless Steel Copper-Enriched Alloy		
Insulation Material		Polystyrene		
Heating System		Direct Heat and Air Jacket System		
Outer Door	qty	1		
Outer Door Lock		Optional	Included	
Field Reversible Door		Included		
Inner Door	qty	1 x Sealing Tempered Glass		
Shelves	qty	4 x Stainless Steel Copper Enriched Alloy		
Shelf Dimensions (W x D x H)	inches mm	24.4 x 17.7 x 0.47 620 x 450 x 12		
Max. Load per Shelf	lbs. kg	15 7		
Max. Total Load	lbs. kg	60 28		
Max. Shelf Capacity	qty	10		
Access Port	qty	1		
Access Port Position		Rear Upper Left		
Access Port Diameter	inches mm	1.2 30		
Alarms		[R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm]		
Power Failure		R		
Temperature Deviation		V-B-R		
High Temperature		V-B-R		
CO ₂ Deviation		V-B-R		
Door open		V-B		
Electrical and Noise Level				
Power Supply	V	115		
Frequency	Hz	60		
Noise Level ³⁾	dB(A)	25		
Options				
SafeCell UV® System		Included		
H ₂ O ₂ Decontamination Board		MCO-170HB-PA ⁴⁾	Included	
Electric Door Lock with Password Access		MCO-170EL-PW ⁴⁾	Included	
H ₂ O ₂ Vapor Generator		MCO-HP-PW ⁴⁾		
H ₂ O ₂ Reagent, pack of 6 bottles		MCO-H202-PA		
Multiple Inner Doors	qty = 4	MCO-230ID-PA		
CO ₂ Gas Pressure Regulator	0 - 15 psi	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-230ST-PW		
InCu-saFe® Half Tray System		MCO-35ST-PW		
Double Stacking Bracket*		MCO-170PS-PW		
Stacking Plate*		MCO-230SB-PW		
Roller Base		MCO-230RB-PW		

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other external projections
- See dimensions drawings on website for full details

²⁾ ±0.25°C; ambient temperature 23°C, setting 37°C, CO₂ 5%, no load

³⁾ Nominal value

⁴⁾ MCO-230AIC series requires MCO-170HB-PE, MCO-170EL-PW, and MCO-HP-PW for H₂O₂ decontamination

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