

cellIQ™

CO₂ Incubator with H₂O₂ Decontamination

8.1 cu.ft. | 230 L



MCO-230AICUVHL-PA

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

Dual IR CO₂ Sensor

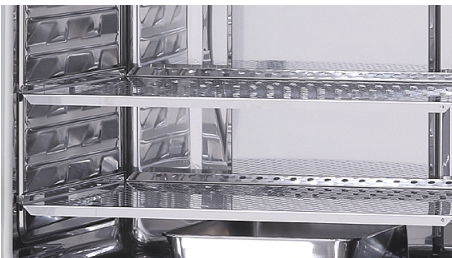
The patented Direct Heat and Air Jacket system works with the sensor to provide precise temperature and CO₂ levels, respectively, without being affected by changes in humidity.

Time-Saving Decontamination

The optional high speed decontamination system uses hydrogen peroxide (H₂O₂) vapor to safely clean the chamber in less than three hours while providing a kill rate with at least a six log reduction of major contaminants. This allows for a quick turnaround compared to high heat decontamination cycles that require at least 11 hours of runtime and limit overall cell culture throughput throughout a normal week.

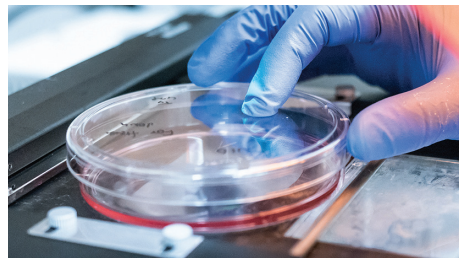
Improved Use and Data Acquisition

A color LCD touchscreen panel delivers full control, even with gloved hands, while a standard USB port makes log data transfer to PC convenient. Additionally, a 4-20 mA module allows for the monitoring of temperature and CO₂ levels via a lab monitoring system.



Germicidal Interior

InCu-saFe copper enriched, stainless steel alloy offers germicidal properties of elemental copper without corrosion or discoloration. Integrated shelf channels make cleaning easy and allow for more capacity for cell culture containers and apparatus.



Contamination Control

The isolated SafeCell UV lamp decontaminates circulated air and the humidity water reservoir without harming the cells during regular cell culture incubation.



Intuitive Control

The control panel interface allows for easy programming of temperature, CO₂ and other internal conditions of your incubator with its built in security features, changes to the parameter controls of the incubator are prevented using password protection.

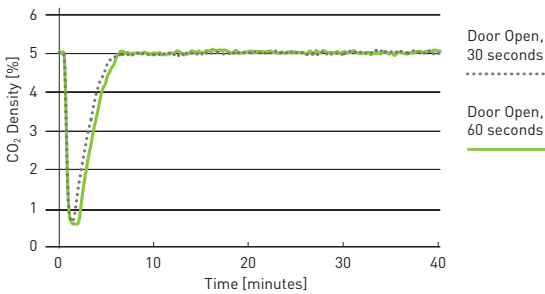


Model MCO-230AICUVHL-PA

Direct Heat and Air Jacket System

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

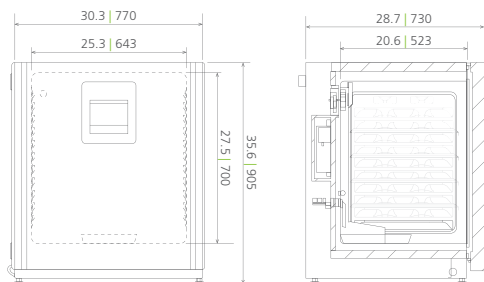
Direct Heat and Air Jacket System



Proprietary IR sensor achieves ultrafast CO₂ recovery without overshoot, even following multiple door openings.

Dimensions

Unit : inch | mm



Model Number		MCO-230AICUVHL-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	lbs kg	198 90
Performance		
Warranty ²⁾		3 years parts and labor, 5 years CO ₂ sensor
Temperature Control Range and Fluctuation ³⁾	°C	+5 above ambient to +50, ± 0.1
Temperature Uniformity ³⁾	°C	± 0.25
CO ₂ Control Range and Fluctuation ³⁾	%	0 to 20, ± 0.15
Humidity Level & Fluctuation	% RH	95 at 37°C, ± 5
Control		
Controller		Microprocessor
Temperature Sensor		Thermistor
Display		Color LCD touchscreen readable in 0.1 increments
Sensor	CO ₂	Dual filter IR
Construction		
Exterior Material		Painted steel (rear cover coated steel)
Interior Material		Stainless steel copper enriched alloy
Outer Door	qty	1
Field Reversible Door		Included
Inner Door	qty	1 (sealing tempered glass with positive latch)
Humidity Pan	qty	1 (stainless steel)
Shelves	qty	4 (stainless steel copper enriched alloy)
Shelf Dimension (W x D x H)	inches mm	24.4 x 17.7 x 0.5 620 x 450 x 12
Max. Load per Shelf	lbs kg	15.4 7
Max. Total Load	lbs kg	61.6 28
Max. Shelf Capacity	qty	10
Access Port / Position	qty	1; rear upper left
Access Port Diameter	inches mm	1.2 30 (with silicone (non-VOC) stopper)
Leveling Feet	qty	4
Decontamination Control		
InCu-safe Chamber, Plenum, Shelves	passive	Included (stainless steel copper enriched alloy)
SafeCell UV Light System	passive/active	MCO-170UVS-PA (included)
Hydrogen Peroxide (H ₂ O ₂) Vapor	active	Included ⁶⁾
Alarms (V=Visual Alarm, Buzzer Alarm, R=Remote Alarm)		
Power Failure		R
Temperature Deviation	high	V-B-R
Gas Deviation	CO ₂	V-B-R
Supply Empty	CO ₂	V-B-R
Door Open		V-B
Electrical and Noise Level		
Power Supply		115V, 1Ø, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle
Noise Level ⁴⁾	dB(A)	25
Options		
Hydrogen Peroxide (H ₂ O ₂) Vapor Board		Included
Outer Door – Password Access Electronic Lock		Included
H ₂ O ₂ Vapor Generator		MCO-HP-PW
H ₂ O ₂ Reagent	package of 6	MCO-H2O2-PV
CO ₂ Gas Pressure Regulator	psi	0 – 15; MCO-100L
Automatic CO ₂ Cylinder Changeover System		MCO-21GC-PW
InCu-safe Shelf		MCO-230ST-PW
InCu-safe Shelf-Reinforced	lbs Kg	66 30 MCO-230RT-PW
Double Stacking Bracket ⁵⁾		MCO-230SB-PW
Roller Base		MCO-230RB-PW
Optional Communication System		
Wireless, Cloud-based, Automatic Data Management		LabAlert® Monitoring System* LabSVIFT Gen 2 ⁷⁾
4-20mA Analog Output		Included - Temperature 25-50°C CO ₂ Density 0-20%

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other external projections
²⁾ Current warranty offered at time of printing and may be subject to change; US and Canada only
³⁾ Ambient temperature 23°C, setting 37°C, CO₂ 5%, no load
⁴⁾ Nominal value, background noise 20 dB(A)
⁵⁾ If stacking two incubators, make sure the double stacking dedicated secure hardware and spacer are used
⁶⁾ The purchase of the vapor generator and H₂O₂ reagent is still required for decontamination.
⁷⁾ Must be purchased with MTR-480 or other LabSVIFT probes.
 * Manufactured by others
 Note: Additional options available.

Specifications are subject to change without notice.
 For latest specification information contact PHC Corporation of North America at info@us.phcd.com.
 Performance data herein is based on independent testing at time of publication.

