PHCbi

cell*IQ*™

MCO-170AICUVL-PA

CO$_2$ Incubator

5.8 cu.ft. | 165 L

inCu saFe   SafeCell UV   AIR jacket   IR dual sensor

MCO-170AICUVL-PA

The CO$_2$ incubator design with touchscreen panel delivers exceptional ease of use, effortless cleaning and maintenance as well as outstanding performance with multilevel contamination control.

Precise and Repeatable Environment

The patented Direct Heat and Air Jacket system works with the IR2 sensor to provide precise temperature and CO$_2$ levels, respectively. InCu-saFe® and SafeCell™ UV function together to prevent contamination.

Time-Saving Decontamination

The optional high speed decontamination system uses hydrogen peroxide (H$_2$O$_2$) 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.

Improved Use and Maintenance

A color LCD touchscreen delivers full control, even with gloved hands, while a standard USB port makes log data transfer to PC convenient. The CO$_2$ incubator offers integrated shelf channels with minimal parts for easy cleaning.

Germicidal Interior

InCu-saFe copper enriched, stainless steel alloy offers germicidal properties of elemental copper without corrosion or discoloration.

Contamination Control

The isolated UV lamp decontaminates circulated air and the humidity water reservoir without harming the cultured cells.

Intuitive Control

The control panel interface allows for easy programming of temperature, CO$_2$ and other internal conditions of your incubator.

PHC Corporation of North America

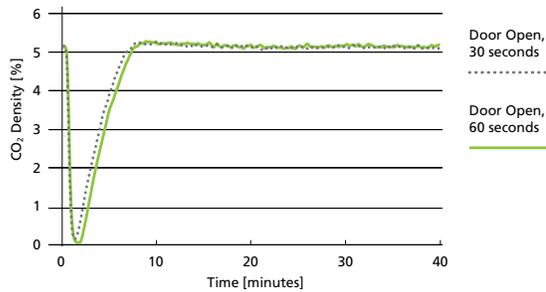# cellIQ™ CO₂ Incubator

MCO-170AICUVL-PA

Model MCO-170AICUVL-PA
shown with optional inner doors.

Direct Heat and Air Jacket System

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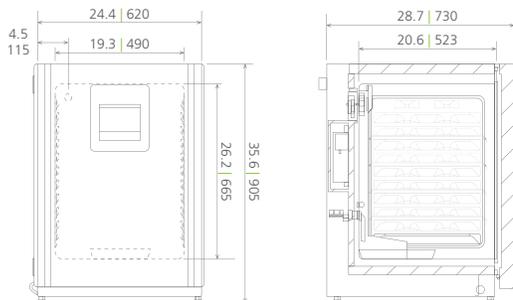
Performance and Recovery

Door Open, 30 seconds
Door Open, 60 seconds

Proprietary IR2 sensor achieves ultrafast CO₂ recovery without overshoot, even following multiple door openings.

Dimensions

Unit : inch | mm

Model Number		MCO-170AICUVL-PA	With Optional H₂O₂ Decontamination
External Dimensions (W × D × H) ¹⁾	inches | mm	24.4 × 28.7 × 35.6 | 620 × 730 × 905	
Internal Dimensions (W × D × H)	inches | mm	19.3 × 20.6 × 26.2 | 490 × 523 × 665	
Volume	cu.ft. | liters	5.8 | 165	
Net Weight	lbs | kg	176 | 80	
Performance			
Warranty ²⁾		3 years parts and labor, 5 years CO₂ sensor	
Temperature Control Range and Fluctuation ³⁾	°C	+5 above ambient to +50, ± 0.1	
Temperature Uniformity ³⁾	°C	± 0.25	
CO₂ 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	CO₂	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 × D × H)	inches | mm	18.5 × 17.7 × 0.5 | 470 × 450 × 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	Included	
Hydrogen Peroxide (H₂O₂) Vapor	active	Optional	Included
Alarms		**(V=Visual Alarm, Buzzer Alarm, R=Remote Alarm)**	
Power Failure		R	
Temperature Deviation	high	V-B-R	
Gas Deviation	CO₂	V-B-R	
Supply Empty	CO₂	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)	29	
Options			
Hydrogen Peroxide (H₂O₂) Vapor Board		MCO-170HB-PA ⁵⁾	Included
Outer Door – Password Access Electronic Lock		MCO-170EL-PW ⁵⁾	Included
H₂O₂ Vapor Generator		MCO-HP-PW ⁵⁾	
H₂O₂ Reagent	package of 6	MCO-H2O2-PV	
Inner Door Kit		MCO-170ID-PW	
CO₂ Gas Pressure Regulator	psi	0 – 15; MCO-100L	
Automatic CO₂ Cylinder Changeover System		MCO-21GC-PW	
InCu-saFe Shelf		MCO-170ST-PW	
InCu-saFe Shelf–Reinforced		MCO-170RT-PW	
Double Stacking Bracket ⁶⁾		MCO-170SB-PW	
Stacking Plate		MCO-170PS-PW	
Roller Base		MCO-170RB-PW	
4-20mA Analog Output		MCO-420MA-PW	
Optional Communication System			
Wireless, Cloud-based, Automatic Data Management		LabAlert® Monitoring System	

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⁾ MCO-170AIC series requires MCO-170HB-PA, MCO-170EL-PW and MCO-HP-PW for H₂O₂ Decontamination
⁶⁾ If stacking two incubators, make sure the double stacking dedicated secure hardware and spacer are used
Note: Additional options available.

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

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