

MCO-5M-PA

Multigas Incubator

(CO₂/O₂) Incubator

1.7 cu.ft. | 49 L



MCO-5M-PA







Achieve a precise CO₂ and O₂ environment that simulates accurate in vivo conditions. The compact, stackable design maximizes labspace and is ideal for individual cell culturing and IVF applications.

Precise and Repeatable Environment

The patented Direct Heat and Air High density insulation surrounds the cise temperature and protect against

Contamination Control

which offers germicidal properties of elemental copper. InCu-saFe prevents incubator interior.

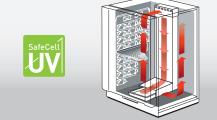
Control and **Monitoring**

The incubator utilizes a of chamber conditions along with an easy to operate control panel with independent LED displays for temperature and CO₂.



Superior Growth Environment

The MCO-5M-PA Multigas (CO₂/O₂) incubator provides an ideal culturing environment. The thermal conductivity (TC) sensor provides precise control of CO2 with fast recovery. A reliable zirconia sensor maintains O2 levels in the incubator chamber.



Optional UV Protection

Our patented SafeCell™ UV technology uses a programmable UV lamp that decontaminates the air and humidity pan without affecting the cell cultures.



User Convenience

The softkey seven button menu for intuitive programming. Alarm notifications warn when functions deviate from setpoints. Remote alarm contacts are provided standard.

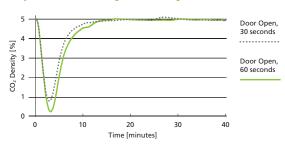


Shelf Channel System

The incubator offers a removable shelf channel system, no tools required, for easy cleaning. Supplied with three shelves standard, the incubator holds a maximum six shelves on 1.1" (29 mm) centers.

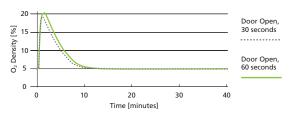
Model MCO-5M-PA

Rapid CO₂ Density Recovery

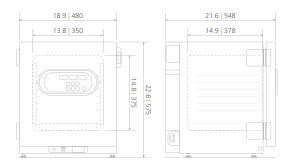


The automatic CO₂ control system delivers precise, reliable and repeatable CO₂ control. The CO₂ setpoint is adjustable from 0% to 20%. CO₂ sample port is integrated into the inner glass door.

Rapid O₂ Density Recovery



Dimensions Unit : inch | mm





Model Number		MCO-5M-PA	With Optional UV Decontamination
External Dimensions (W × D × H) 1)	inches mm	18.9 × 21.6 × 22.6	480 × 548 × 575
Internal Dimensions (W \times D \times H)	inches mm	13.8 × 14.9 × 14.8 350 × 378 × 375	
Volume	cu.ft. liters	1.7 49	
Net Weight	lbs kg	108 49	
Warranty ²⁾		3 years parts	s and labor
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
O ₂ Control Range and Fluctuation ³⁾	%	1 to 18 and 22 to 80, ± 0.2	
Humidity Level & Fluctuation	% RH	95 at 37°C, ± 5	
Control			
Controller		Microprocessor – sof	tkey 7 button menu
Temperature Sensor		Thermistor	
Display	aty	3; LED (temperature, CO ₂ and O ₂)	
	qty	readable to 0.1 increments	
Sensor	CO ₂ O ₂	Thermal conductivity (T	C) Stabilized zirconia
Construction			
Exterior Material		Painted steel (rear cover coated steel)	
Interior Material		Stainless steel copper enriched alloy	
Outer Door	qty	1	
Inner Door	qty	1 (sealing tempered glass with positive latch)	
Humidity Pan	qty	1 (stainless steel)	
Shelves Shelf Dimension (W × D × H)	qty	3 (stainless steel copper enriched alloy)	
Max. Load per Shelf	inches mm	12.2 × 12.2 × 0.5 310 × 310 × 12 8.8 4	
Max. Total Load	1 3	26.5 12	
Max. Shelf Capacity	lbs kg	6	
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, Air Plenum and Shelves	parrie	Included (stainless steel	copper enriched allow
	passive passive/active	Included (stainless steel copper enriched alloy) Optional Included	
SafeCell UV Light System			
Alarms		(V=Visual Alarm, Buzzer A	Alarm, R=Remote Alar
Power Failure		R	
Temperature Deviation	high	V-B-R	
Gas Deviation	CO2 N2/O2	V-B-R V-B-R	
Supply Empty	CO2 N2/O2	V-B-R V-B-R V-B	
Door Open		V-I	В
Electrical and Noise Level			
Power Supply		115V, 1Ø, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle	
Noise Level 4)	dB(A)	24	
Stacking Bracket			
Double Stacking Bracket 5)	MCO-5 series	Included (allows for stacking two MCO-5 series incubators)	
Options			
SafeCell UV Light System	passive/active	MCO-19UVS-PA	
CO ₂ Gas Pressure Regulator	psi	0 – 15; MCO-100L	
Automatic CO ₂ Cylinder Changeover System	·	MCO-5GC-PW	
InCu-saFe Shelf		MCO-30ST-PW	
		MCO-5RB-PW	

- 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, air temperature measured at incubator center
- 4) Nominal value Background noise 20dB[A]
- ⁵⁾ 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.

MCO-420MA-PW