

MCO-170MP-PA | 20A00L683

cellIQ™

Multigas (CO₂/O₂) Incubator

5.7 cu.ft. | 161 L



MCO-170MP-PA | 20A00L683



Our multigas (CO₂/O₂) incubator optimizes mammalian cell cultures through variable O₂ control to better mimic *in vivo* conditions. The incubator helps you achieve more accurate results by culturing your cells at physiological oxygen levels.

Reproduction of *In Vivo* Conditions

With a unique, solid zirconia sensor for precise oxygen levels (1-18% and 22% to 80%), the MCO-170MP-PA | 20A00L683 is able to reproduce low oxygen concentrations often found in many tissues, organs and pathogenic tissues.

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 100% kill rate with at least a six log reduction of major contaminants.

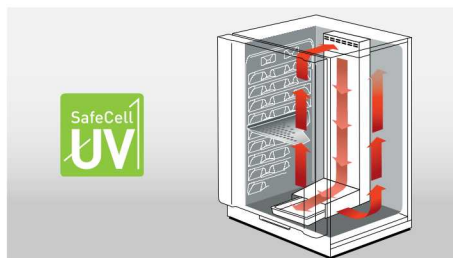
Improved Use and Maintenance

A color LCD touchscreen delivers full control, even with gloved hands, while a standard USB port makes log data transfer to PC convenient. The 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.



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.



Intuitive Control

The control panel interface allows for easy programming of temperature, CO₂, O₂ and other internal conditions of your incubator.

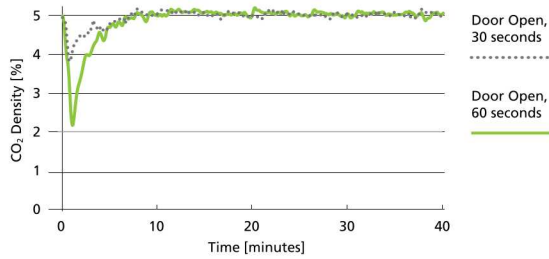


Direct Heat and Air Jacket System

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

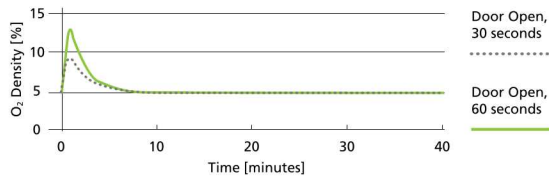
Model MCO-170MP-PA | 20A00L683

Rapid CO₂ Density Recovery



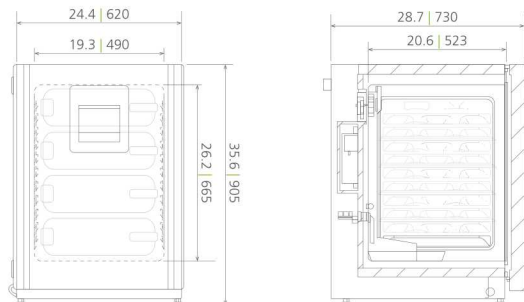
Proprietary IR2 sensor achieves ultrafast CO₂ recovery without overshoot, even following multiple door openings.

Rapid O₂ Density Recovery



Dimensions

Unit : inch | mm



Specifications are subject to change without notice.
Performance data herein is based on independent testing at time of publication.

Model Number	MCO-170MP-PA 20A00L683	With Optional UV Decontamination	With Optional H ₂ O ₂ Decontamination
External Dimensions (W x D x H) ¹⁾	inches mm	24.4 x 28.0 x 35.6 620 x 710 x 905	
Internal Dimensions (W x D x H)	inches mm	19.3 x 20.6 x 26.2 490 x 523 x 665	
Volume	cu.ft. liters	5.7 161	
Net Weight	lbs kg	170 77	
Performance			
Warranty ²⁾		3 years parts and labor	
Temperature Control Range and Fluctuation ³⁾	°C	+5 above ambient to +50, ± 0.1	
Temperature Uniformity ³⁾	°C	± 0.25	
Control Range and Fluctuation ³⁾	%	0 to 20, ± 0.15 1 to 18 and 22 to 80, ± 0.2	
Humidity Level & Fluctuation	% RH	95 at 37°C ± 5	
Control			
Controller		Microprocessor	
Temperature Sensor		Color LCD touchscreen - readable to 0.1 increments	
Display	qty	Thermistor	
Sensor	CO ₂ O ₂	Dual filter IR Stabilized zirconia	
Construction			
Exterior Material		Painted steel (rear cover coated steel)	
Interior Material		Stainless steel copper enriched alloy	
Insulation Material		Polystyrene	
Outer Door	qty	1	
Field Reversible Door		Included	
Inner Door with Inner Glass Doors	qty	1 (stainless steel frame sealing with positive latch + 4 tempered glass sealing with positive latches)	
Humidity Pan	qty	1 (stainless steel)	
Shelves	qty	3 (stainless steel copper enriched alloy)	
Shelf Dimension (W x D x H)	inches mm	18.5 x 17.7 x 0.5 470 x 450 x 12	
Max. Load per Shelf	lbs kg	15.4 7	
Max. Total Load	lbs kg	45.0 21	
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, Air Plenum and Shelves	passive	Included (stainless steel copper enriched alloy)	
SafeCell UV Light System	passive/active	Optional	Included
Hydrogen Peroxide (H ₂ O ₂) Vapor	active	Optional	Included
Alarms (V=Visual Alarm, Buzzer Alarm, R=Remote Alarm)			
Power Failure		R	
Temperature Deviation	high	V-B-R	
Gas Deviation	CO ₂ N ₂ /O ₂	V-B-R V-B-R	
Supply Empty	CO ₂ N ₂ /O ₂	V-B-R	
Door Open		V-B 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			
SafeCell UV Light System		MCO-170UVS-PA	Included
Hydrogen Peroxide (H ₂ O ₂) Vapor Board		MCO-170HB-PA ⁵⁾	Included
Outer Door—Password Access Electronic Lock		MCO-170EL-PW ⁵⁾	Included
H ₂ O ₂ Vapor Generator		MCO-HP-PW ⁵⁾	Included
H ₂ O ₂ Reagent	package of 6	MCO-H2O2-PV	
CO ₂ N ₂ Gas Pressure Regulator	psi	0 – 15; MCO-100L 0 – 60; MCO-100N	
Automatic CO ₂ Cylinder Changeover System		MCO-21GC-PW	
4-20mA Analog Output		MCO-420MA-PW	
InCu-saFe Shelf		MCO-170ST-PW	
InCu-saFe Shelf—Reinforced		MCO-170RT-PW	
Double Stacking Bracket ⁶⁾		MCO-170SB-PW 21A00J950	
Roller Base		MCO-170RB-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 20 dB(A)
⁵⁾ MCO-170MP | 20A00L683 series requires MCO-170HB-PA, MCO-170EL-PW, MCO-170UVS-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.