



MCO-170M-PA

cellIQ™

Multigas Incubators

5.7 cu.ft. | 161 L

Panasonic's multigas incubators optimize mammalian cell cultures through variable O₂ control to better mimic *in vivo* conditions for regenerative medicine and stem cell applications. The MCO-170M helps you achieve more accurate results by culturing your cells at physiological oxygen levels.

Reproduction of *in vivo* conditions

With a unique zirconia sensor for precise oxygen control (1-18%; 22-80%), the MCO-170M is able to reproduce low oxygen concentrations often found in many tissues, organs, and pathogenic tissues.

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 & Maintenance

A color LCD touch panel delivers full control, even with gloved hands, while a standard USB port makes log data transfer to PC convenient. The incubator's interior offers integrated shelf channels with minimal parts for easier cleaning.



Sensitive Cell Culturing

Culturing cells at physiological oxygen levels allows them to grow faster, live longer, and experience fewer mutations.



Efficient Workflows

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



Intuitive Usability

Easy control over CO₂/O₂, temperature, and other internal conditions of your MCO-170M incubator.

Cell/Q™ Multigas Incubators

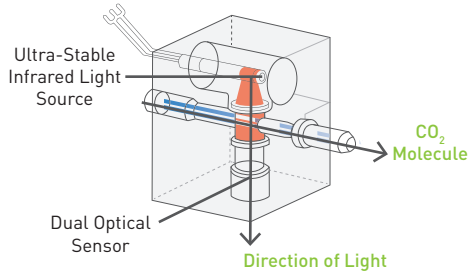


Zirconia O₂ Sensor

The unique solid Zirconia O₂ sensor delivers precise control of physiological O₂ levels to simulate *in vivo* conditions similar to a cell's native surroundings.

Rapid CO₂ Recovery

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



Germicidal Interior

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

Proactive Contamination Control

Isolated UV lamp decontaminates circulating air and the humidity water reservoir without harming cultured cells or producing ozone.

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.

Panasonic

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Model Number		MCO-170M-PA	MCO-170MUV-PA	MCO-170MUVH-PA
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				
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		
O ₂ Control Range & Fluctuation ²⁾	%	1-18% & 22-80%, ±0.2		
Humidity Level & Fluctuation	%RH	95, ±5		
Control				
Temperature Sensor		Thermistor		
CO ₂ Sensor		Dual Filter IR		
O ₂ Sensor		Stabilized Zirconia Sensor		
Display		LCD Touch Screen		
Construction				
Exterior Material		Painted Steel (rear cover not painted)		
Interior Material		Stainless Steel Copper-Enriched Alloy		
Insulation Material		Polystyrene		
Heating Method		Direct Heat & Air Jacket System		
Outer Door	qty	1		
Outer Door Lock		Optional		
Field Reversible Door		Included		
Inner Door	qty	4 x Sealing Tempered Glass		
Shelves	qty	3 x Stainless Steel Copper Enriched Alloy		
Shelf Dimensions (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 7		
Max. Total Load	lbs. kg	45 21		
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)	29		
Options				
SafeCell UV® System		MCO-170UVS-PA ⁴⁾	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		MCO-170ID-PW		
CO ₂ Gas Pressure Regulator	0 - 15 psi	MCO-100L-PW		
N ₂ Gas Pressure Regulator	0 - 30 psi	MCO-100N-PW		
Automatic CO ₂ Cylinder Changeover System		MCO-21GC-PW		
Semi-automatic one point Gas Calibration Kit		MCO-SG-PW		
InCu-saFe® Shelf (and brackets if required)		MCO-170ST-PW		
InCu-saFe® Half Tray System		MCO-25ST-PW		
Double Stacking Bracket*		MCO-170PS-PW		
Stacking Plate*		MCO-170SB-PW		
Roller Base		MCO-170RB-PW		

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

²⁾ Ambient temperature 23°C, setting 37°C, CO₂ 5%, O₂ 5%, no load

³⁾ Nominal value

⁴⁾ MCO-170M series requires MCO-170HB-PE, MCO-170EL-PW, MCO-HP-PW and SafeCell UV option for H₂O₂ decontamination

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