



# cell/Q<sup>™</sup>





Our multigas ( $CO_2/O_2$ ) incubator optimizes mammalian cell cultures through variable  $O_2$  control to better mimic *in vivo* conditions. The incubator helps you achieve more accurate results by culturing your cells at physiological oxygen levels.

MCO-170M-PA

#### Reproduction of In Vivo Conditions

With a unique, solid zirconia sensor for precise oxygen levels (1-18% and 22% to 80%), the MCO-170M-PA 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  $(H_2O_2)$  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.

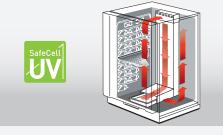
#### Improved Use and Maintenance

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,  $CO_2$ ,  $O_2$  and other internal conditions of your incubator.

Life Science Innovator Since 1966

MCO-170M-PA

5.7 cu.ft. | 161 L

**PHC Corporation of North America** 

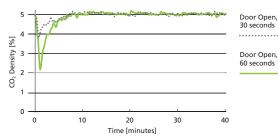


# Direct Heat and Air Jacket System

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

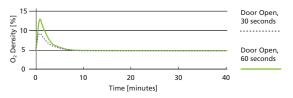
Model MCO-170M-PA

#### **Rapid CO<sub>2</sub> Density Recovery**

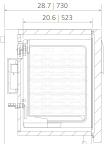


Proprietary IR2 sensor achieves ultrafast CO<sub>2</sub> recovery without overshoot, even following multiple door openings.

#### Rapid O<sub>2</sub> Density Recovery



#### Dimensions



Unit : inch | mm

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#### With Optional UV With Optional H<sub>2</sub>C External Dimensions (W $\times$ D $\times$ H) <sup>1</sup> inches | mm 24.4 × 28.0 × 35.6 620 × 710 × 905 Internal Dimensions (W $\times$ D $\times$ H) 19.3 × 20.6 × 26.2 490 × 523 × 665 inches | mm Volume cu.ft. | liters 57 161 Net Weight lbs | kg 170 77 Warranty <sup>2</sup> 3 years parts and labor °C Temperature Control Range and Fluctuation <sup>3</sup> +5 above ambient to $+50 \pm 0.1$ Temperature Uniformity <sup>3</sup> °C ± 0.25 Control Range and Fluctuation 3) % 0 to 20, $\pm$ 0.15 | 1 to 18 and 22 to 80, $\pm$ 0.2 Humidity Level & Fluctuation % RH 95 at 37°C ± 5 Controller Microprocessor Temperature Sensor Color LCD touchscreen - readable to 0.1 increments Display Thermisto qty Sensor CO2 | O2 Dual filter IR | Stabilized zirconia Exterior Material Painted steel (rear cover coated steel) Interior Material Stainless steel copper enriched alloy Insulation Material Polystyrene Outer Door qty Field Reversible Door Included 1 (stainless steel frame sealing with positive latch + 4 tempered glass Inner Door with Inner Glass Doors qty sealing with positive latches) Humidity Pan 1 (stainless steel) qty Shelves qty 3 (stainless steel copper enriched alloy) Shelf Dimension (W $\times$ D $\times$ H) 18.5 × 17.7 × 0.5 470 × 450 × 12 inches mm Max. Load per Shelf lbs | kg 15.4 7 Max. Total Load lbs | kg 45.0 21 Max. Shelf Capacity 10 qty Access Port / Position qty 1; rear upper left Access Port Diameter inches I mm 1.2 30 (with silicone (non-VOC) stopper) Leveling Feet qty InCu-saFe Chamber, Air Plenum and Shelves Included (stainless steel copper enriched alloy) passive SafeCell UV Light System passive/active Optional Included Included Hydrogen Peroxide (H2O2) Vapor active Optiona Optional Included Power Failure R V-B-R Temperature Deviation high Gas Deviation CO2 N2/O2 V-B-R V-B-R Supply Empty CO2 N2/O V-B-R V-B V-B Door Open 115V, 1Ø, 60Hz, NEMA 5-15P $(\mathbf{I})\mathbf{H}$ Power Supply requires NEMA 5-15R receptacle Noise Level 4) dB(A) 29 SafeCell UV Light System MCO-170UVS-PA 5) MCO-170UVS-PA Included Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) Vapor Board MCO-170HB-PA 5 MCO-170HB-PA Included Outer Door–Password Access Electronic Lock MCO-170EL-PW MCO-170EL-PW<sup>5</sup> Included H<sub>2</sub>O<sub>2</sub> Vapor Generator MCO-HP-PW<sup>5</sup> MCO-HP-PW 5) MCO-HP-PW 5 H<sub>2</sub>O<sub>2</sub> Reagent package of 6 MCO-H2O2-PV CO<sub>2</sub> Gas Pressure Regulator 0 - 15; MCO-100L psi Automatic CO<sub>2</sub> 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<sup>6)</sup> MCO-170SB-PW

<sup>1)</sup> Exterior dimensions of main cabinet only, excluding handle and other external projections

<sup>2)</sup> Current warranty offered at time of printing and may be subject to change; US and Canada only

<sup>3)</sup> Ambient temperature 23°C, setting 37°C, CO<sub>2</sub> 5%, no load, air temperature measured at incubator center

<sup>4)</sup> Nominal value – Background noise 20dB(A)

Roller Base

<sup>5)</sup> MCO-170M series requires MCO-170HB-PA, MCO-170EL-PW, MCO-170UVS-PW and MCO-HP-PW for H<sub>2</sub>O<sub>2</sub> Decontamination <sup>6)</sup> 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-170M-PA

MCO-170RB-PW