



# cell/Q<sup>™</sup>

### Life Science Innovator Since 1966

### MCO-170AICUVDL-PA

High Heat Sterilization CO<sub>2</sub> Incubator

5.8 cu.ft. | 165 L



Our Cell-IQ<sup>TM</sup> CO<sub>2</sub> incubators provide optimal cultivation conditions with precise CO<sub>2</sub> concentration, temperature and humidity while remaining easy to clean and operate. During cell culturing, the inCu-saFe<sup>®</sup> germicidal interior and SafeCell<sup>TM</sup> UV continuously protect against potential contaminants. A unique dual heat system sterilizes the incubator interior.

MCO-170AICUVDL-PA

### Precise and Repeatable Environment

InCu-saFe and SafeCell UV function together to create contamination control against external microbes. InCu-saFe is comprised of a germicidal copper enriched stainless steel interior. SafeCell UV decontaminates circulated air and the humidity reservoir. A unique heating system and the dual filter infrared sensor precisely control temperature and CO<sub>2</sub> levels, respectively.

### Dual Heat Sterilization

An integrated auxiliary sterilization system is utilized together with the incubator cultivation heaters to provide an effective, energy efficient sterilization process. Melamine foam insulation minimizes heat leakage to adjacent incubators and dramatically reduces elevated external surface temperatures.

### Improved Use and Maintenance

A color LCD touchscreen allows full control and visibility of the incubator's internal conditions, even with gloved hands. A USB port makes transferring data to a PC convenient. The incubator has fully rounded corners and shelf channels integrated into the chamber side walls for ease of cleaning and maintenance.



### **Optimum Cell Growth**

Optimal results and reproducibility make the MCO-170AICUVDL-PA incubator ideal for tissue culture research, genomic expression, antibody production, transfection and transduction procedures.



### **Efficient Workflow**

Laboratory processes are more efficient with less incubator downtime. There is no need to remove inner components of the incubator or calibrate after sterilization.



### **Intuitive Usability**

The control panel interface allows for easy programming of temperature,  $CO_2$ , high heat sterilization and other internal conditions of your incubator.

# cell/Q<sup>®</sup> CO<sub>2</sub> Incubator



Model MCO-170AICUVDL-PA

### **Specialized Dual Heating System**

The MCO-17AICUVDL-PA is engineered with a dual heat system. The primary heater maintains precise temperature control over a setpoint range from 5°C above ambient to 50°C. The secondary heater is activated when the high heat sterilization cycle is initiated as both heaters combine to reach 180°C. Specialized melamine foam cabinet insulation retains high heat sterilization temperature while maintaining safe exterior surface temperatures.

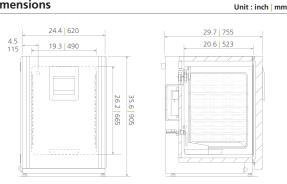
### **Rapid CO<sub>2</sub> Recovery**

A dual filter infrared sensor signals the microprocessor controller to inject CO<sub>2</sub> to maintain desired setpoint conditions. Sensor response accelerates CO<sub>2</sub> recovery to setpoint without overshoot following frequent door openings.

### **Antimicrobial Interior**

InCu-saFe copper enriched stainless steel interior surfaces create a germicidal barrier to airborne contaminants that enter the incubator during door openings. The stainless steel material resists corrosion and offers the contamination fighting advantages of copper but without discoloration.

### Dimensions



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#### External Dimensions (W $\times$ D $\times$ H) <sup>1</sup> 24.4 × 29.7 × 35.6 620 × 755 × 905 inches | mm 19.3 × 20.6 × 26.2 490 × 523 × 665 Internal Dimensions (W × D × H) inches | mm Volume cu.ft. | liters 58 165 Net Weight lbs ka 176 80 Warranty 2) 3 years parts and labor, 5 years CO<sub>2</sub> sensor Temperature Control Range and Fluctuation 3) °C +5 above ambient to $+50 \pm 0.1$ Temperature Uniformity 3) °C ± 0.25 CO, Control Range and Fluctuation 3) 0 to 20, ± 0.15 % Humidity Level & Fluctuation % RH 95 at 37°C, ± 5 Controller Microprocessor Temperature Sensor Thermistor Color LCD touchscreen readable in 0.1 increments Display Sensor CO. Dual filter IR Exterior Material Painted steel (rear cover coated steel) Interior Material Stainless steel copper enriched alloy Insulation Melamine foam insulation Outer Door 1 with electronic password protected lock qty Field Reversible Door Included Inner Door 1 (sealing tempered glass with positive latch) qty Humidity Par qty 1 (stainless steel) Shelves 4 (stainless steel copper enriched alloy) qty Shelf Dimension (W $\times$ D $\times$ H) 18.5 × 17.7 × 0.5 470 × 450 × 12 inches mm Max Load per Shelf 15.4 7 lbs kg Max. Total Load 61.6 28 lbs ka 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 4 qty InCu-saFe Chamber Plenum Shelves passive Included (stainless steel copper enriched allov) SafeCell UV Light System Included passive/active Power Failure R Temperature Deviation high V-B-R V-B-R Gas Deviation CO<sub>2</sub> Door Open V-B V-B-R Gas Supply Empty CO<sub>2</sub> 115V, 1Ø, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle $\mathbf{\hat{h}}$ Power Supply Noise Level 4 dB(A) 25 Semi-Automatic One Point Gas Calibration Kit MCO-SG-PW CO<sub>2</sub> Gas Pressure Regulator 0 - 15; MCO-100L psi Automatic CO<sub>2</sub> Cylinder Changeover System MCO-21GC-PW InCu-saFe Shelf MCO-170ST-PW InCu-saFe Shelf–Reinforced MCO-170RT-PW InCu-saFe Half Tray System MCO-25ST-PW Stacking Plate 5 MCO-170PS-PW MCO-170SB-PW Double Stacking Bracket 5) MCO-170RB-PW Roller Base 4-20mA Analog Output MCO-420MA-PW Wireless, Cloud-based, Automatic Data Management LabAlert® Monitoring System

<sup>1)</sup> 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

<sup>3)</sup> Ambient temperature 23°C, setting 37°C, CO<sub>2</sub> 5%, no load <sup>4)</sup> Nominal value, background noise 20 dB[A]

<sup>5)</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.

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