# **Panasonic**

# Postation

MCO-80ICL-PA

# CytoGrow ReachIn

CO<sub>2</sub> Incubator

30.1 cu.ft. | 851 L





Panasonic Healthcare's  $CO_2$  incubator is designed to save lab space while offering the flexibility to grow your culturing needs. The control system provides a precise and repeatable chamber environment.

# Horizontal Laminar Airflow

The cross shelf, horizontal laminar airflow system promotes optimum temperature uniformity throughout the chamber which contributes to quick temperature recovery after door openings. Side plenum walls are perforated for positive, even airflow. The horizontal airflow allows for full use of solid shelves providing maximum culturing capacity.

# Contamination Control

Incubator interior, shelves and plenum system incorporate inCu-saFe® copper enriched, stainless steel alloy which offers germicidal properties of elementa copper. InCu-saFe prevents corrosion and discoloration of the incubator interior.

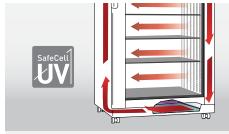
# Control and Monitoring

The incubator functions are managed by a fully integrated microprocessor controller with a range of setpoints and alarms for temperature and CO<sub>2</sub>. Two levels of elevated humidity can be selected. All functions are programmable through the control panel. Independent LED displays for CO<sub>2</sub> and temperature are standard.



### CO<sub>2</sub> Control

IR sensor coupled with the PID microprocessor controller is used to provide superior  $\text{CO}_2$  control and exceptionally fast recovery after door openings. Gas system design minimizes  $\text{CO}_2$  consumption.



### **Optional UV Protection**

Located safely below the interior base, the optional patented SafeCell™ UV lamp destroys airborne contaminants as they pass over the humidity reservoir surface. Pathogens introduced during door openings are ultimately removed.



### **User Convenience**

Softkey eight button menu for intuitive programming. LED indicators monitor incubator functions. Remote alarm contacts provided standard.



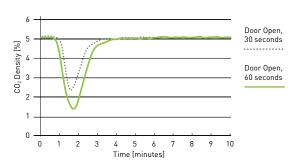
### Large Capacity CO<sub>2</sub> Incubator

The MCO-80ICL-PA is ideal for culturing large volumes of biological samples, performing microbiological studies and working with large volume cell apparatus.

### **Humidity Control**

Humidity reservoir heaters are located outside the walls of the reservoir. They are not as susceptible to corrosion and scaling from water as competitive systems are. The unit can be set to normal (80% RH or above) or high (90% RH or above) humidity mode.

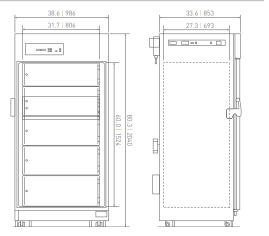
### Rapid CO<sub>2</sub> Density Recovery



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

### **Dimensions**

Unit:inch | mm



## **Panasonic**®

Panasonic Healthcare Corporation of North America 1300 Michael Drive, Suite A, Wood Dale, IL 60191 Toll Free USA (800) 858-8442, Fax (630) 238-0074 www.panasonic-healthcare.com/us/biomedical

	MCO-80IC		
Model Number		MCO-80ICL-PA	With Optional UV Decontamination
External Dimensions (W × D × H) 11	inches   mm	38.6 × 33.6 × 80.3	986 × 853 × 2040
Internal Dimensions (W × D × H)	inches   mm	31.7 × 27.3 × 60.0	
Volume	cu.ft.   liters	30.1	
Net Weight	lbs.   kg	606	275
Performance			
Warranty <sup>2)</sup>		3 Years parts and labor	
Temperature Control Range and Fluctuation 3)	°C	+5 above ambient to +50	
Temperature Uniformity 3)	°C	± 0.5 (9 point measurement)	
CO <sub>2</sub> Control Range and Fluctuation <sup>3)</sup>	%	0 to 20, ± 0.15	
Humidity Level & Fluctuation	% RH	Normal mode: over 80 (high mode: over 90)	
Control			
Controller		Micropr	ncessor
Temperature Sensor		Thermistor	
Display		2; LED (1 for temperature and 1 for CO <sub>2</sub> ) readable to 0.1 increments	
Sensor	CO <sub>2</sub>	IR	
Construction	302		· 
Exterior Material		Painted steel	
Interior Material		Stainless steel copper enriched alloy	
Outer Door	qty	1; Dual pane heated glass with latch (provision for padlock)	
Shelves	qty	5; Stainless steel copper enriched alloy	
Shelf Dimension (W × D × H)	inches   mm	30.6 × 25.9 × 0.4   776 × 659 × 10	
Max. Load per Shelf - Distributed Evenly	lbs   kg	66   30	
Max. Total Load	lbs   kg	330   150	
Max. Shelf Capacity	qty	18	
Access Port / Position	qty	2; Right side and left side	
Access Port Diameter	inches   mm	1.6   40 with silicone (non-VOC) stopper	
Casters	qty	4; Dual wheel (front 2 swivel, back 2 fixed)	
Leveling Feet	qty	4	
Humidity Reservoir Drain	qty	Drain valve – lower side front (drainage tray provided	
Humidity Reservoir Material		Stainles	ss steel
InCu-saFe Chamber, Air Plenum and Shelves	passive	Included (stainless stee	l copper enriched alloy)
SafeCell UV Light System	passive/active	Optional	Included
		(V=Visual Alarm, Buzzer	
Power Failure		F	₹
Temperature Deviation	high	V-E	8-R
Gas Deviation	CO <sub>2</sub>	V-E	B-R
Supply Empty	CO <sub>2</sub>	V-E	B-R
Door Open	-	V-	В
Low Water in Humidity Reservoir		\	/
Electrical and Noise Level			
Power Supply		115V, 1Ø, 60Hz	
	- <b>W</b>	requires NEMA 5	'
Noise Level <sup>4)</sup>	dB(A)	3	3
Chamber Duplex – Vapor Proof Cover	qty	1; 115v 3 amps max rating	
Cabinet Outlet	qty	1; 115v 1 amps max rating	
Options			
SafeCell UV Light System		MCO-80UVS-PA	Included
Humidity Reservoir–Auto Fill System			
CO <sub>2</sub> Gas Pressure Regulator	psi	MCO-80AS-PW 0 - 15: MCO-100L	
Automatic CO <sub>2</sub> Cylinder Changeover System	hai	MCO-21GC-PW	
Inner Door Kit		MCO-80ID-PW	
InCu-saFe Solid Shelf with Brackets		MCO-80ID-PW MCO-80ST-PW	
InCu-saFe Solid Shelf Reinforced with Brackets		MCO-AICRSLF (Max 3 Shelves)	
Cell Roller Mounting Ramp Kit		MCU-AICRSLF [Max 3 Shelves]  MCO-80RBS-PW	
4-20mA Analog Output		MCO-420MA-PW	
Optional Communication System		11100-421	
Wireless, Cloud-based,	atv	I ah∆lert® Mon	itorina System

- 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
- 3) Ambient temperature (in a +20 °C to +35 °C), setting 37 °C, CO  $_2$  5%, no load, air temperature measured at incubator center
- 4) Nominal value Background noise 20dB[A]

Note: Additional options available. Contact Panasonic Healthcare

LabAlert® Monitoring System