



MCO-80ICL-PA

30.1 cu.ft. | 851 L

CytoGrow ReachIn

CO₂ Incubator







MCO-80ICL-PA

The ReachIn 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 elemental copper. InCu-saFe prevents corrosion and discoloration of the incubator interior.

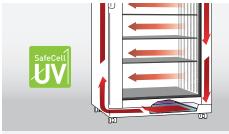
Control and Monitoring

The incubator functions are managed by a fully integrated microprocessor controller with a range of setpoints and alarms for temperature and CO₂. Two humidity ranges can be selected. All functions are programmable through the control panel. Independent LED displays for CO₂ and temperature are standard.



CO₂ Control

IR sensor coupled with the PID microprocessor controller is used to provide superior CO₂ control and exceptionally fast recovery after door openings. Gas system design minimizes CO₂ 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.

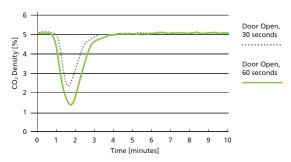
Large Capacity CO₂ Incubator

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.

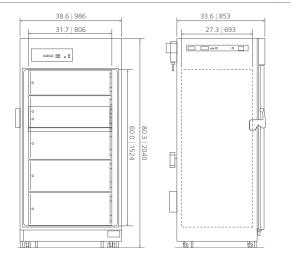
Rapid CO₂ Density Recovery



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

Dimensions

Unit : inch | mm





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lodel Number		With Optional U\
		MCO-80ICL-PA With Optional Of Decontamination
ternal Dimensions (W × D × H) 1)	inches mm	38.6 × 37.2 × 80.3 986 × 945 × 2040
ternal Dimensions (W × D × H)	inches mm	31.7 × 27.3 × 60.0 806 × 693 × 1524
olume	cu.ft. liters	30.1 851
et Weight	lbs kg	606 275
erformance		
/arranty ²⁾		3 years parts and labor
emperature Control Range and Fluctuation 3)	°C	+5 above ambient to +50, ± 0.1
emperature Uniformity 3)	°C	± 0.5 (9 point measurement)
O, Control Range and Fluctuation 3)	%	0 to 20, ± 0.15
umidity Level & Fluctuation	% RH	Normal mode: over 80 (high mode: over 90)
ontrol		
ontroller		Microprocesor
Imperature Sensor		Microprocessor Thermistor
rnperature sensor		2; LED (1 for temperature and 1 for CO ₂)
isplay	qty	readable to 0.1 increments
ensor	CO ₂	IR
tterior Material		Painted steel
terior Material		Stainless steel copper enriched alloy
uter Door	qty	1; Dual pane heated glass with latch (provision for padlo
nelves	qty	5 (stainless steel copper enriched alloy)
nelf Dimension (W × D × H)	inches mm	30.6 × 25.9 × 0.4 776 × 659 × 10
lax. Load per Shelf - Distributed Evenly	lbs kg	66.1 30
lax. Total Load	lbs kg	330.0 150
lax. Shelf Capacity	qty	18
ccess Port / Position	qty	2; right side and left side
ccess Port Diameter	inches mm	1.6 40 (with silicone (non-VOC) stopper)
asters	qty	4; Dual wheel (swivel)
eveling Feet	qty	4
	qty	4 Drain valve – lower side front (drainage tray provided)
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- ¹⁾ Exterior dimensions of cabinet excluding handle, rear stand-off brackets and other external projections. Consult sales rep for doorway entry instructions, less than 37.2°.
- ²⁾ Current warranty offered at time of printing and may be subject to change; US and Canada only
- $^{3)}$ Ambient temperature (in a +20 °C to +35 °C), setting 37 °C, CO $_2$ 5%, no load, air temperature measured at incubator center of the content of the

4) Nominal value – Background noise 20dB[A]

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.