

MCO-18ACL-PA

6.0 cu.ft. | 170 L



CO₂ Incubator









MCO-18ACL-PA

The CytoGrow CO_2 incubator offers a high performance solution for mainstream cell culture applications in the research environment, where precise control and contamination resistance are critical.

Precise and Repeatable Environment

The patented Direct Heat and Air Jacket conditioning system provides for stable chamber temperature. High density insulation surrounds the incubator chamber to maintain precise temperature and protect against ambient temperature fluctuations.

Passive Contamination Control

Incubator interior, shelves and shelf rack system incorporate inCu-saFe® copper enriched, stainless steel alloy which offers germicidal properties of elemental copper. This passive contamination control method prevents corrosion and discoloration.

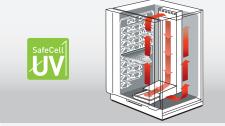
Control and Monitoring

The CytoGrow incubator utilizes a microprocessor controller and provides accurate digital display of chamber conditions along with an easy to operate control panel with independent LED displays for temperature and CO₂.



Superior Growth Environment

The thermal conductivity (TC) sensor provides precise control of CO₂ with fast recovery and reproducible environmental conditions for optimal cell culturing.



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.



User Convenience

The softkey seven button menu for intuitive programming. Alarm notifications warn when functions deviate from setpoints. Remote alarm contacts are provided standard.

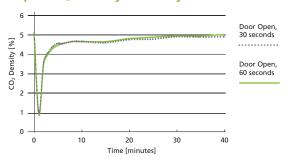


Model MCO-18ACL-PA

Shelf Channel System

The incubator offers a removable shelf channel system, no tools required, for easy cleaning. Supplied with three shelves standard the incubator holds a maximum of 15 shelves on 1.1" (29 mm) centers.

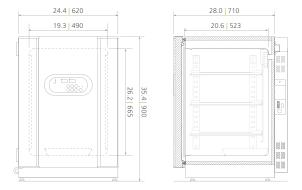
Rapid CO₂ Density Recovery



The automatic CO₂ control system delivers precise, reliable and repeatable CO₂ control. The CO₂ setpoint is adjustable from 0% to 20%. CO₂ sample port is integrated into the inner glass door.

Dimensions

Unit: inch | mm





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Model Number		MCO-18ACL-PA	With Optional UV Decontamination
External Dimensions (W \times D \times H) 1)	inches mm	24.4 × 28.0 × 35.4 6	20 × 710 × 900
Internal Dimensions (W \times D \times H)	inches mm	19.3 × 20.6 × 26.2 490 × 523 × 665	
/olume	cu.ft. liters	6.0 17	0
Net Weight	lbs kg	203 9	2
Performance			
Warranty ²⁾		3 years parts a	nd labor
Temperature Control Range and Fluctuation 3)	°C	+5 above ambient to +50, ± 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	
Control			
Controller		Microprocessor – softke	y 7 button menu
Temperature Sensor		Thermistor	
Display	qty	2 LED (1 for temperature and 1 for CO ₂)	
		readable to 0.1 increments	
Sensor	CO ₂	Thermal conduc	tivity (TC)
Construction			
Exterior Material		Painted steel (rear cover coated steel)	
Interior Material		Stainless steel copper enriched alloy	
Outer Door	qty	1	
Field Reversible Door		Included	
Inner Door	qty	1 (sealing tempered glass with positive latch)	
Humidity Pan	qty	1 (stainless steel)	
Shelves	qty	3 (stainless steel copper enriched alloy)	
Shelf Dimension (W × D × H)	inches mm	17.7 × 17.7 × 0.5 450 × 450 × 12	
Max. Load per Shelf	lbs kg	15.4 7	
Max. Total Load	lbs kg	61.6 28	
Max. Shelf Capacity	qty	15	
Access Port / Position	qty	1; rear upper left	
Access Port Diameter	inches mm	1.2 30 (with silicone (non-VOC) stopper)	
Leveling Feet	qty	4	
Decontamination Control			
InCu-saFe Chamber, Air Plenum and Shelves	passive	Included (stainless steel copper enriched alloy)	
SafeCell UV Light System	passive/active	Optional	Included
Power Failure		R	
Temperature Deviation	high	V-B-R	
Gas Deviation	CO ₂	V-B-R	
Supply Empty	CO ₂	V-B-R	
Door Open		V-B	
Electrical and Noise Level			
Power Supply	(1)	115V, 1Ø, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle	
		24	
Noise Level 4)	dB(A)	24	
	dB(A)		
Stacking Bracket	dB(A)		MCO-18 series incubato
Stacking Bracket Double Stacking Bracket ⁵⁾	dB(A)	Included (allows for stacking two	MCO-18 series incubator
Stacking Bracket Double Stacking Bracket [®] Options		Included (allows for stacking two	
Stacking Bracket Double Stacking Bracket [®] Options SafeCell UV Light System	passive/active	Included (allows for stacking two	Included
Stacking Bracket Double Stacking Bracket ^{s)} Options SafeCell UV Light System CO ₂ Gas Pressure Regulator		Included (allows for stacking two MCO-18UVS3-PA 0 – 15; MCO	Included 0-100L
Stacking Bracket Double Stacking Bracket® Options SafeCell UV Light System CO ₂ Gas Pressure Regulator InCu-saFe Shelf (and Brackets if Required)	passive/active	Included (allows for stacking two MCO-18UVS3-PA 0 – 15; MCO MCO-475	Included 0-100L FPW
Stacking Bracket Double Stacking Bracket® Options SafeCell UV Light System CO ₂ Gas Pressure Regulator InCu-saFe Shelf (and Brackets if Required) InCu-saFe Half Tray System	passive/active	Included (allows for stacking two MCO-18UVS3-PA 0 – 15; MCO	Included D-100L FPW FPW ttacking MCO-18 series
Stacking Bracket Double Stacking Bracket [®] Options SafeCell UV Light System CO ₂ Gas Pressure Regulator InCu-saFe Shelf (and Brackets if Required) InCu-saFe Half Tray System Double Stacking Bracket [®]	passive/active	Included (allows for stacking two MCO-18UVS3-PA 0 – 15; MCC MCO-47S¹ MCO-25S¹ MCO-170SB-PW (allows for stacking two	Included 0-100L FPW FPW ttacking MCO-18 series ies incubator)
Stacking Bracket Double Stacking Bracket® Options SafeCell UV Light System CO₂ Gas Pressure Regulator InCu-saFe Shelf (and Brackets if Required) InCu-saFe Half Tray System Double Stacking Bracket® Stacking Plate®	passive/active	Included (allows for stacking two MCO-18UVS3-PA 0 - 15; MCO MCO-47S1 MCO-25S1 MCO-170SB-PW (allows for sont of MCO-170 serion of MCO-	Included 0-100L FPW FPW ttacking MCO-18 series ies incubator)
Stacking Bracket Double Stacking Bracket (S) Options SafeCell UV Light System CO ₂ Gas Pressure Regulator InCu-saFe Shelf (and Brackets if Required) InCu-saFe Half Tray System Double Stacking Bracket (S) Stacking Plate (S) Roller Base	passive/active	Included (allows for stacking two MCO-18UVS3-PA 0 - 15; MCO MCO-475 MCO-255 MCO-170SB-PW (allows for sonto MCO-170 ser MCO-21SE	Included 0-100L FPW FPW ttacking MCO-18 series ies incubator)
Noise Level * Stacking Bracket Double Stacking Bracket * Options SafeCell UV Light System CO ₂ Gas Pressure Regulator InCu-saFe Shelf (and Brackets if Required) InCu-saFe Half Tray System Double Stacking Bracket * Stacking Plate * Roller Base Optional Communication System Wireless, Cloud-based,	passive/active	Included (allows for stacking two MCO-18UVS3-PA 0 - 15; MCO MCO-475 MCO-255 MCO-170SB-PW (allows for sonto MCO-170 ser MCO-21SE	Included 0-100L FPW FPW ttacking MCO-18 series ies incubator)

- 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; US and Canada only
- 3) Ambient temperature 23°C, setting 37°C, C02 5%, no load, air temperature measured at incubator center 4) Nominal value Background noise 20dB[A]
- ⁵⁾ 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.