

Life Science Innovator Since 1966



MCO-5M-PA | MCO-5ACL-PA | MCO-170M-PA MCO-170ACL-PA | MCO-170AICUVL-PA MCO-170AICUVHL-PA | MCO-170AICUVDL-PA MCO-230AICUVL-PA | MCO-80ICL-PA

CO2 AND CO2/O2 MULTIGAS LABORATORY INCUBATORS

CO₂ and CO₂/O₂ multigas laboratory incubators are designed to sustain accurate *in vitro* models of *in vivo* environments for optimum cell growth and reproducibility.

Ideal for regenerative medicine, stem cell therapy, IVF, routine cell culture, microbiology and animal research applications.



Designed with Purpose

PHCbi brand CO_2 and multigas CO_2/O_2 incubators represent generations of successful product development in response to emerging cell culture protocols used around the world. Our incubators use innovative technology to fulfill a wide range of applications, from the most sophisticated, finely tuned and externally regulated processes in clinical medicine, to the widespread need for cell culture in mammalian investigations in academic, biotechnology, pharmaceutical and agricultural laboratories.

* FDA registered as a Class 2 Assisted Reproduction Device.



For more than 50 years PHC Corporation has maintained a reputation for worldwide leadership in the design and manufacture of cell culture incubators and associated laboratory equipment used in biopharmaceutical, life sciences, academic, healthcare and government markets.



PHCbi brand incubators are engineered to assure stability and accuracy required for reproducible results in the laboratory, from one day to the next, from one protocol to another.

Our product line offers the choices you need for gas control, single or multiple gas systems and decontamination methods to suit your preference. Standard cabinet sizes are configured for new and replacement installation with minimal site preparation.



Reproducibility and the Fundamentals of Critical Parameters

Reproducibility

PHCbi brand incubators include a suite of complementary operating systems designed to work together to achieve the highest level of reproducibility possible. Each incubator model uses a combination of essential technologies which share performance functions across the design platform. PHCbi brand incubators are designed to minimize uncertainty by providing stable, uniform and accurate conditions from one day to the next.



- Automatic Gas Control
 - Heat
 - Humidification

Fundamentals

The primary purpose of a cell culture incubator is to provide accurate, repeatable and flexible environments essential to replication of the *in vivo* condition *in vitro*. Once the physiology of a specific *in vivo* condition is known, the investigator can create an *ex vivo* model inside the incubator chamber by managing a balance of temperature, CO₂, (and O₂ selected models) in a humidified atmosphere which prevents media desiccation.

The Cell-IQ and CytoGrow product groups represent a continuing evolution in incubator development to meet emerging demands of scientific and medical research.

Innovated designs, advancements in high performance sensors, contamination control methods, energy-efficient cabinet construction and creative material applications have earned PHCbi brand products a best-in-class reputation for clinical and research uses where reproducibility is critical.

CO₂ and CO₂/O₂ Incubators



*FDA registered as a Class 2 Assisted Reproduction Device, FDA Product Code MQG, approved for *in vitro* fertilization applications, Registration Number 9616263.

CONTAMINATION CONTROL

Active Background Contamination Control

The concept of Active Background Contamination Control was introduced by PHC Corporation as early as 2001. This approach to maintaining a safe interior environment is based on passive design attributes inherent to cabinet materials and systems, as well as user-initiated or programmed active control sequences that can be turned on when desired.



Active Background SafeCell UV

The primary components of this technique are found in copper enriched stainless steel interior protection and destruction of airborne contaminants by UV light exposure within the positive airflow plenum. Both work continuously to inhibit the growth of organisms on interior surfaces of walls and shelves, and by destroying the DNA of pathogens that enter the chamber through door openings or normal handling.

Serial dilution of the closed chamber atmosphere assures that all airborne organisms will be exposed to UV light within the gentle airflow.

All incubators are designed for easy removal of interior components, if a manual wipe down of interior surfaces using 70% ethanol is desired. This 70% solution is diluted to slow evaporation and provide time for the ethanol to be effective.



✔ Mycoplasma Growth 🛛 🔀 Negative Growth

X

The interior airflow plenum gently directs air past the integral UV lamp before passing over the humidity pan. Any surface contaminants in the water are destroyed by UV exposure. The entire system is completely isolated from the active incubator chamber. When required, all components remove easily without tools.

X

Χ

X

X

Mycoplasma StrainControlConventional
Stainless SteelInCu-saFeCo
Co
CoMycoplasma fermentansImage: Conventional
Image: Convention

J

Mycoplasma Survival Results

Mycoplasma hominis



Active Background Contamination Control

Standard Feature Optional Feature

	MCO-5M-PA*	MCO-170M-PA [*]	MCO-5ACL-PA	MCO-170ACL-PA	MCO-170AICUVL-PA MCO-170AICUVHL-PA	MCO-170AICUVDL-PA	MCO-230AICUVL-PA	MCO-80ICL-PA
InCu-saFe								
SafeCell UV		¢	_ □	¢				¢
Condensation Management								

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InCu-saFe Germicidal Protection

Copper enriched stainless steel is a hybrid Type 304 composite material that provides contact destruction of organisms while preventing sustainable growth of pathogens on interior surface.

- Unlike conventional C100 copper interior designs, the inCu-saFe material does not discolor or corrode over time.
- All walls, floors, ceilings, shelves and other structural components in the chamber are fabricated from inCu-saFe material.
- InCu-saFe is standard on all Cell-IQ and CytoGrow incubators.

DECONTAMINATION

SafeCell UV

Patented SafeCell UV technology uses a programmable ultraviolet lamp to inhibit the growth of mycoplasma, bacteria, molds, spores, viruses, yeasts and fungi in the chamber atmosphere. Costly HEPA filter air scrubbers that simply trap contaminants are not required.

- Located away from active cell cultures and out of view, the SafeCell UV lamp operates on an automatic cycle that starts whenever an incubator is accessed. Once the door is closed, the circulation fan resumes a gentle serial airflow throughout the chamber, eventually passing all air over the humidity reservoir in the chamber base where UV light emitting a 253.7 nm wavelength kills airborne contaminants on the water surface without creating ozone. The timing of this passive sequence is adjustable from 0 to 30 minutes. The factory setting is approximately 2 minutes after each door opening.
- If an overnight decontamination process is desired, all interior components can be removed for autoclaving while the UV light is manually programmed for a timed 100% ON cycle extending for up to several hours. With interior components removed all remaining surfaces are exposed to the UV light where contaminants are destroyed.

A UV lamp hour counter automatically records ON time for all cycles and adjusts intensity to compensate for lamp life. The controller notifies the user when it is time to replace the lamp. Replacement is completed quickly and without tools. The useful life of the UV lamp is estimated in years, depending on frequency of use.





Summary Benefit of SafeCell UV Exposure

Method	
	РНС
Test Results, Maximum Log Red	
Bacteria	>4.5
Yeast	>2.9
Mold	>2.7
Decontamination Options	
Overnight	√
Active Background Contamination Control	√

Available Option

The SafeCell UV system is effective in destroying a broad range of bacteria, molds, yeasts, protozoa and viruses. Efficacy is based on incident energy at 253.7 nm necessary to inhibit colony formation in greater than 99.9% of tested microorganisms, measured in microwatt seconds/cm²

A representation is listed here. For a detailed listing contact PHC Corporation of North America.







Decontamination methods are selected based on user preference, and are often ordained by approved GMP or other protocols that mandate continuity of process.

H₂O₂ Vapor Decontamination

Hydrogen peroxide vapor decontamination (H_2O_2) is standard on the Model MCO-170AICUVHL-PA, and optional on Models MCO-170AICUVL-PA, MCO-170M-PA and MCO-230AICUVL-PA.

- H₂O₂ is a safe, effective and environmentally friendly decontamination method that reaches all interior surfaces of the incubator.
- A nebulizer placed inside the chamber converts aqueous H₂O₂ to vapor which remains inside the chamber for approximately 30 minutes.
- Upon completion of the vapor exposure, the H₂O₂ is resolved to <1 ppm as benign water vapor in the presence of the UV light.



High Heat Decontamination

High heat decontamination is a standard operating feature of the Model MCO-170AICUVDL-PA, which offers significant advantages over conventional high heat models.

- The high heat decontamination process elevates interior temperature to 180°C and is often initiated for overnight completion.
- After active cell cultures or other life forms are removed from the incubator, the decontamination sequence is manually initiated and automatically operated. The high heat process uses time and a higher temperature than conventional high heat incubators.
- A secondary heating system is energized to ramp up interior temperature to 180°C where it remains for a two-hour dwell to destroy any pathogens inside.
- Once the dwell is completed, the secondary heater is de-energized and temperature returns to the original setpoint. The entire process takes approximately 12 hours.
- High performance, heat-resistant melamine foam insulation minimizes heat transfer to the exterior cabinet surface, permitting the process to proceed without moving adjacent or stacked incubators or other laboratory equipment.
- There is no need to remove the integral CO₂ sensor or UV lamp.

Standard Feature Optional Feature

Ø	DECONTAMINATION	MC0-5M-PA*	MCO-170M-PA*	MCO-5ACL-PA	MCO-170ACL-PA	MCO-170AICUVL-PA MCO-170AICUVHL-PA	MCO-170AICUVDL-PA	MCO-230AICUVL-PA	MCO-80ICL-PA
	Manual								
	SafeCell UV	ф –	¢	ф –	¢	•	•	•	
	H ₂ O ₂		ф –					ф –	
	High Heat 180°C								

Model Specific

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PHCbi brand cell culture incubators are available in a selection of CO₂ and multigas CO₂/O₂ models. Gas blends are managed by a microprocessor controller which calculates gas percentages based on input from CO₂ or O₂ sensors. Gas setpoints and actual levels are displayed on the main control panel for easy reference.

Automatic CO₂ Control

Cell-IQ incubators use high-performance infrared (IR) detectors to measure CO₂ concentration. CytoGrow incubators use a thermal conductivity sensor or infrared sensor, depending on model; see chart.

Infrared CO₂ Control System

The infrared CO_2 control system is designed for automatic gas control as well as real-time calibration to assure accuracy to setpoint and proper indication on the digital display to within 0.1%.

Sensitivity to CO₂ percentage, combined with gas input pressure regulators, achieves fast recovery following door openings without overshoot beyond setpoint.

The gas controller is based on a single light emitting source designed to split before passing through actual chamber and reference air concentrations where signals are measured by light filters and scored by sophisticated sensors. The infrared beam passes through with different values. The CO_2 concentration differential between sensors determines the flow of CO_2 to the chamber and provides continuous data to the controller. This process permits constant calibration and minimizes the need for periodic manual calibration which can be initiated whenever required.

Fast CO₂ Recovery After Door Opening



The infrared CO₂ control system is designed to establish, maintain and recover CO₂ concentration to the desired setpoint. This sensor provides accurate control and accuracy with fast recovery to setpoint following door openings. The PID control algorithm eliminates overshoot as CO₂ is restored, typically in less than 2 minutes.

Thermal Conductivity CO₂ Control

Thermal conductivity detects changes in resistance associated with the CO_2 percentage in the chamber air.

- The thermal conductivity method is accurate in a stable environment.
- Baseline references change over time based on temperature and humidity, and periodic calibration is recommended.

Conversion of O₂ lons to Electrical Current



The O_2 molecules diffuse through the Zirconia layer in the sensor, causing a voltage build-up. The voltage then creates an electrical current flow which is detected by the sensing circuit in the incubator.

Oxygen Control Zirconia

Research into cell culture at below ambient oxygen levels is expanding exponentially as protocols are investigated, tested and published in professional journals. Oxygen levels below ambient are typical of mammalian cells *in vivo* and often range from near anaerobic to slightly below ambient. Normal oxygen is approximately 21% in air. When a 5% CO₂ level is introduced, O₂ levels reduce to 19.95%. Automatic control of both CO₂ and oxygen in the cell culture environment permits the most accurate *in vitro* replication of the *in vivo* physiology which can range from 1% to 18% or to near ambient O₂ levels.

- O₂ molecules diffuse through the zirconia layer in the sensor causing a voltage change. The electrical current flow is detected by the sensor, calculated into percentage and the O₂ or N₂ solenoid is opened or closed on demand. There is no impact on CO₂ percentage during this process.
- Because the initial O₂ setpoint may be hypothetical, the adjustable O₂ setpoint permits setpoint values to within 0.1%.
- If O₂ demand changes as the cell cultures mature, O₂ levels are easily changed to manage reproducibility.
- Nitrogen gas used to reduce the oxygen level in the incubator is controlled by an algorithm that calculates N₂ percentage as a reciprocal of O₂ detected by a zirconia sensor.
- Enriched O₂ levels can be established within the range of 22% to 80% O₂, but must be used with extreme caution and in accordance with local codes.

Standard Feature Optional Feature

							Standard		
O a	AUTOMATIC GAS CONTROL	MCO-5M-PA*	MCO-170M-PA*	MCO-5ACL-PA	MCO-170ACL-PA	MCO-170AICUVL-PA MCO-170AICUVHL-PA	MCO-170AICUVDL-PA	MCO-230AICUVL-PA	MCO-80ICL-PA
	CO ₂ Infrared								
	CO ₂ Thermal Conductivity								
	O ₂ Zirconia		•						

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HEATING AND TEMPERATURE RECOVERY

Direct Heat, Air

The patented Direct Heat and Air Jacket heating system surrounds the inner walls with a natural convection airflow which converts to radiant wall heat. This method achieves accurate, uniform and highly responsive temperature control within the chamber.

Positive Airflow Heating

The large-volume CytoGrow ReachIn Model MCO-80ICL-PA uses a horizontal laminar airflow to establish uniform conditions throughout the chamber. Positive airflow assures quick temperature, CO_2 and humidity recovery after door openings. Horizontal circulation across the solid, reinforced inCu-saFe shelves promotes even distribution at all shelf levels with larger loads.



The patented Direct Heat and Air Jacket heating system distributes proportional energy to the interior chamber through a natural convection air jacket. High density insulation surrounds the chamber to protect against ambient temperature fluctuations while providing close internal temperature control. Three separate heating zones are energized according to demand as interpreted by the microprocessor controller. These zones can be energized together, in pairs or separately depending on where heat is required to assure uniformity and to minimize interior condensation points.

Standard Feature	Optional	Feature
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J	HEAT	MCO-5M-PA*	MCO-170M-PA*	MCO-5ACL-PA	MCO-170ACL-PA	MCO-170AICUVL-PA MCO-170AICUVHL-PA	MCO-170AICUVDL-PA	MCO-230AICUVL-PA	MCO-80ICL-PA
	Direct Heat, Air Jacket								
	Direct Heat, Wall								
	Airflow Plenum								

Humidification

Cell culture environments must create humidified air to prevent desiccation of cell culture media. Most PHCbi brand incubators have removable humidity pans designed to hold clean, distilled water which evaporates naturally. Positive vapor pressure is sufficient to retard media desiccation in microplates with small media volumes.

- The stainless steel humidity pan is manually filled with distilled water. Heat from the incubator chamber floor evaporates the water to elevate humidity.
- Multi-zone heat sources designed to manage interior uniformity also offer flexibility in moderating elevated humidity from lower to higher levels.
- Unlike some larger cell culture incubators that use immersion heaters to supplement the natural

humidification process, there are no heating elements exposed to water and there is no scaling or build-up over time.

Condensation Management

Condensation management used in selected PHCbi brand incubators is designed to remove excess chamber humidity. A condensation probe or "dew stick" made from antibacterial material uses a Peltier technique to

condense moisture if the incubator nears 100% saturated humidity. The condensation drips into the humidity pan.



Standard Feature 🗌 Optional Feature

$\langle \rangle$	HUMIDIFICATION	MCO-5M-PA*	MCO-170M-PA*	MCO-5ACL-PA	MCO-170ACL-PA	MCO-170AICUVL-PA MCO-170AICUVHL-PA	MCO-170AICUVDL-PA	MCO-230AICUVL-PA	MCO-80ICL-PA
	Evaporation Indirect Heat Water Pan								
	Elevated, Direct Heat Medium or High								

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CONTROLLER PLATFORM



MCO-170M-PA | MCO-170AICUVL-PA MCO-170AICUVHL-PA | MCO-170AICUVDL-PA MCO-230AICUVL-PA





MCO-5M-PA



MCO-80ICL-PA

MCO-170ACL	-PA
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Controller and Display	Touchscreen with Graphical Color LCD Display	Softkey 7 Button Menu with Triple LED Display	Softkey 7 Button Menu with Dual Display	Softkey 8 Button Menu with Dual LED Display
Cell-IQ				
MCO-230AICUVL-PA		_	_	_
MCO-170AICUVL-PA		_	_	_
MCO-170AICUVHL-PA		_	_	_
MCO-170AICUVDL-PA		_	_	_
MCO-170M-PA		_	_	_
MCO-5M-PA	_		_	_
CytoGrow				
MCO-80ICL-PA	_	_	_	
MCO-170ACL-PA	-	-	LCD	-
MCO-5ACL-PA	-	_	LED	-
Incubator Information	All functions	All functions	All functions	All functions
Temperature Programming	Touchscreen	Softkey 7 Button	Softkey 7 Button	Softkey 8 Button
High Temperature Alarm	Alarm Indicator on Screen	Alarm Indicator Light	Alarm Indicator Light	Alarm Indicator Light
Gas Programming	Touchscreen	Softkey 7 Button	Softkey 7 Button	_
CO2 Alarm	Alarm Indicator on Screen	Alarm Indicator Light	Alarm Indicator Light	_
Alarm Ring Back	Alarm Ring Back	Alarm Ring Back	Alarm Ring Back	Alarm Ring Back
Audible Silence	Alarm Silence	Alarm Buzzer	Alarm Buzzer	Alarm Buzzer
Remote Alarm Contacts	Normally Open, Normally Closed, Common DC 30V 2A			
Data Download	USB Port	-	USB Port	-
Display Brightness	Contrast Adjustment	_	_	_

SPECIFICATIONS

Models: MCO-5M-PA | MCO-5ACL-PA | MCO-170M-PA | MCO-170ACL-PA

Dimensions		MCO-5M-PA	MCO-5ACL-PA	MCO-170M-PA	MCO-170ACL-PA
External Dimensions (W \times D \times H) ¹⁾	inches mm	18.9 × 21.6 × 22.6 480 × 548 × 575	18.9 × 21.6 × 22.4 480 × 548 × 568	24.4 × 28.7 × 35.6 620 × 730 × 905	24.4 x 28.7 x 35.6 620 x 730 x 905
Internal Dimensions ($W \times D \times H$)	inches mm	13.8 × 14.9 × 14.8 350 × 378 × 375	13.8 × 14.9 × 14.8 350 × 378 × 375	19.3 × 20.6 × 26.2 490 × 523 × 665	19.3 x 20.6 x 26.2 490 x 523 x 665
Volume	cu.ft. liters	1.7 49	1.7 49	5.7 161	5.8 165
Net Weight	lbs ka	110 50	108 49	170 77	163 74
Performance					
Warranty 3)		3 years parts and labor	3 years parts and labor	3 years parts and labor	3 years parts and labor
Temperature Control Range and Fluctuation 4)	°C	+5 above ambient to +50, ± 0.1	+5 above ambient to +50, ± 0.1	+5 above ambient to +50, ± 0.1	+5 above ambient to +50, ± 0.1
Temperature Uniformity 4)	°C	± 0.25	± 0.25	± 0.25	± 0.25
CO, Control Range and Fluctuation 4)	%	0 to 20, ± 0.15	0 to 20, ± 0.15	0 to 20, ± 0.15	0 to 20, ± 0.15
O2 Control Range and Fluctuation 4)	%	1 to 18 and 22 to 80. ± 0.2		1 to 18 and 22 to 80. ± 0.2	
Humidity Level & Fluctuation	% RH	95 at 37°C. ± 5	95 at 37°C. ± 5	95 at 37°C ± 5	95 at 37°C. ± 5
Control					
Controller with Thermistor Sensor		Microprocessor – softkey 7 button menu	Microprocessor – softkey 7 button menu	Microprocessor	Microprocessor – softkey 7 button menu
Temperature Sensor		_	Thermistor	_	Thermistor
Display	qty	3; LED (temperature, CO ₂ and O ₂) readable to 0.1 increments	2 LED (1 for temperature and 1 for CO ₂) readable to 0.1 increments	Color LCD touchscreen readable to 0.1 increments	White graphic OLED readable to 0.1 increments
Sensor	0.10	Thermal conductivity (TC) Stabilized zirconia	Thermal conductivity (TC)	Dual filter IR Stabilized zirconia	Thermal conductivity
Construction	02102	memial conductivity (rc) stabilized zirconia	inclinal conductivity (rc)	Dual litter IN Stabilized zirconia	incline conductivity
Exterior Material		Painted steel (rear cover coated steel)	Painted steel (rear cover coated steel)	Painted steel (rear cover coated steel)	Painted steel (rear cover coated steel)
Interior Material		Stainless steel copper enriched allov	Stainless steel copper enriched allow	Stainless steel copper enriched allov	Stainless steel copper enriched allow
Outer Door	atv	1	1	1	1
Field Reversible Door	49	Included	, Included	Included	Included
Inner Door	atv	1 (sealing tempered glass with positive latch)	1 (sealing tempered glass with positive latch)	1 (stainless steel frame sealing with positive latch + 4 tempered plass sealing with positive	1 (sealing tempered glass with positive latch)
Humiditu Pan	49	1 (stainless steel)	1 (stainlars stanl)	latches)	1 (stainlass staal with 16 source)
Condensation Management	чч	י (סומוווכסס סוכלו)	י (סנמוווכסס סנכלו)	i (stanness steel)	Included
Contensation Management	atv	2 (staiplass staal coppar aprichad allow)	2 (staiplass steel copper enriched allow)	2 (staiplass steel copper opriched allow)	2 (staipless steel copper opriched allow)
Shelf Dimonsion (M × D × H)	qıy inches l.mm	12.2 12.2 0 E 210 210 12	12.2 × 12.2 × 0.5 210 × 210 × 12	19.5 x 17.7 x 0.5 470 x 450 x 12	18 E v 17 7 v 0 E 470 v 450 v 12
Max Load per Shalf	linches min	12.2 × 12.2 × 0.3 310 × 510 × 12	12.2 × 12.2 × 0.3 510 × 510 × 12	16.5 × 17.7 × 0.5 470 × 450 × 12	16.5 X 17.7 X 0.5 470 X 450 X 12
Max Tetal Load	IDS Kg	0.0 4	0.0 4	13.4 7	(1) 7 (1) 20
May Chalf Connector	IDS Kg	20.5 12	20.5 12	45.0 21	01 28
Max. Sheri Capacity	qıy	0	0	10	10
	(1)	i rear inner ieu	rear unner ieu	rear unner ieu	I: rear upper leit
Access Fort / Fostion	45				
Access Port Diameter	inches mm	1.2 30 (with silicone (non-VOC) stopper)	1.2 30 (with silicone (non-VOC) stopper)	1.2 30 (with silicone (non-VOC) stopper)	1.2 30 (with silicone (non-VOC) stopper)
Access Fort / Fostion Access Port Diameter Leveling Feet and Casters Decontramination Control	inches mm qty	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet
Access Fold Production Access Port Diameter Leveling Feet and Casters Decontamination Control Inducate Chamber Air Plenum and Shelves	inches mm qty	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel conner enriched allow)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel conner enriched allow)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel conner enriched allow)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet
Access Polt / Positium Access Polt Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves Safe/GII UV thin Sustem	inches mm qty passive	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Ontional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Ontional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Ontional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Ontional
Access Polt / Posituli Access Polt Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydronen Peroxide (H:Ou) Vanor	inches mm qty passive passive/active active	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional
Access Polt / Posituli Access Polt Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ-O) Vapor Alarms	qty inches mm qty passive passive/active active	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Visual Alarm, Buzzer	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional —
Access Polt / Posituli Access Polt Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ:Ox) Vapor Alarms Power Failure	qty inches mm qty passive passive/active active	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicon (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — (V=Visual Alarm, Buzzer R	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R
Access Polt / Posituli Access Polt Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:Ox) Vapor Alarms Power Failure Temperature or Gas Deviation	inches mm qty passive passive/active active	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Visual Alarm, Buzzer R V-B-R	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional R V-B-R
Access Pol / Positium Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:Do) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty	inches mm qty passive passive/active active high	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Visual Alarm, Buzzer R V-B-R V-B-R	1.2 30 (with silicon (on-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional R V-B-R V-B-R V-B-R
Access Polt / Posituli Access Polt Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:Ox) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open	inches mm qty passive passive/active active high	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B V-B	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional R V-B-R V-B-R V-B
Access Pol C Positium Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H±O2) Vapor Alarms Power Failure Temperature or Gas Deviation CO2, Supply Empty Door Open UV Lamp Fault (optional)	inches mm qty passive passive/active active high	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional 	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B —	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional R V-B-R V-B-R V-B V V
Access Pol C Position Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:Ox) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level	inches mm qty passive passive/active active high	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B —	1.2 30 (with silicore (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B V-B -	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional R V-B-R V-B-R V-B V-B V
Access Pol C Postudi Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply	<pre>qy inches mm qty qty passive/active active high high </pre>	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B 	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional R V-B-R V-B-R V-B-R V-B V-B V-B V-B V-B V-B V-B V-B
Access Pol / Postudi Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H±O2) Vapor Alarms Power Failure Temperature or Gas Deviation (CO ₂ Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ^S	inches mm passive passive/active active high inches mm passive/active active dB(A)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15P receptacle 24	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 24	1.2 30 (with silicon (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B 115V, 12, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional R V-B-R V-B-R V-B-R V-B V-B V-B V-B V-B V-B V-B V-B
Access Pol C Position Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-Do) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ⁵⁰ Options	inches mm qy passive/active passive/active active high high bigh dB(A)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15P requires NEMA 5-15P requires NEMA 5-15P requires NEMA 5-15P	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Visual Alarm, Buzzer R V-8-R V-8-R V-8-R V-8-R IISV, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 24	1.2 30 (with silicon (on-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B 115V, 12, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional R V-B-R V-B-R V-B-R V-B V-B V-B V-B V-B V-B V-B V-B
Access Pol C Postudi Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:Do) Vapor Alarms Power Failure Temperature or Gas Deviation (CO ₂ Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ^{sy} Options SafeCell UV Light System	inches mm qty passive/active active high high	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Cytional Cytional Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 24 MCO-19UVS-PA	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 MCO-170UVS-PA	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Coptional R V-B-R V-B-R V-B-R V-B-R V-B T15V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade
Access Pol / Postudi Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-Jo) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ⁵⁾ Options SafeCell UV Light System Hydrogen Peroxide (H-JO) Vapor Board	inches mm qty passive/active active high high dB(A)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional 	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Cytional Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R ISV, IO, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 24 MCO-19UVS-PA	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 MCO-170UVS-PA MCO-170UVS-PA	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional R V-B-R V-B-R V-B-R V-B-R V-B T15V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade — MCO-170UVS-PA
Access Polt / Postudi Access Polt Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-O2) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level % Options SafeCell UV Light System Hydrogen Peroxide (H-O2) Vapor Board Outer Door-Password Access Electronic Lock	inches mm qty passive/active active high high dB(A)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional 	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Coptional (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15P receptade 24 MCO-19UVS-PA —	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 MCO-1700HS-PA [®] MCO-1700HS-PA [®]	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Coptional R R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R ISV, 10, 60Hz, NEMA 5-15P requires NEM
Access Pol / Postudi Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-O ₂) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ³ Options SafeCell UV Light System Hydrogen Peroxide (H-O ₂) Vapor Board Outer Door-Password Access Electronic Look H-O ₂ Vapor Generator	inches mm qty passive/active active high high dB(A)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional 	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Cytio	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 CONTINUES NEMA 5-15R receptade 29 MCO-1700HS-PA® MCO-1700HS-PA®	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Coptional R R V-B-
Access Pol / Postudi Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-O2) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ³ Options SafeCell UV Light System Hydrogen Peroxide (H-O2) Vapor Board Outer Door-Password Access Electronic Lock H-O2 Vapor Generator H-O2 Reagent	inches mm qty passive/active active high high dB(A) dB(A)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional 	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Cytio	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 20 MCO-1700LY-PA MCO-170E-PW [®] MCO-H202-FV	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Coptional R R V-B-
Access Pol 7 Postuli Access Pol 7 Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJo) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₁ Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ^{sy} Options SafeCell UV Light System Hydrogen Peroxide (HJo) Vapor Board Outer Door-Password Access Electronic Lock HJO: Vapor Generator HJO: Reagent CO ₂ Gas Pressure Regulator	inches mm qty passive/active active active high high dB(A) dB(A)	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — — 0 — 15; MCO-100L	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional 	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B- 115V, 18, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 MCO-170UVS-PA MCO-170UVS-PA MCO-170E-PW® MCO-170E-PW®	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-8-R V-9-R
Access Pol 7 Postuli Access Pol Diameter Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJO) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ^{Sh} Options SafeCell UV Light System Hydrogen Peroxide (HJO) Vapor Board Outer Door-Password Access Electronic Lock Hi-O: Reagent CO; Gas Pressure Regulator	inches mm qty passive/active active active high high dB(A) dB(A) gackage of 6 psi	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15P receptacle 24 MCO-19UVS-PA — — 0 – 15; MCO-100L 0 – 60; MCO-100N	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional 	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B-R I15V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 29 MCO-170UVS-PA MCO-170UVS-PA MCO-170E-PW [®] MCO-170E-PW [®] MCO-170E-PW [®]	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-8-R V-8-R V-8-R V-8 V I15V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade — MCO-170UVS-PA —
Access Port Diameter Leveling Feet and Casters Decontamination Control Inclu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJO) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level % Options SafeCell UV Light System Hydrogen Peroxide (HJO) Vapor Board Outer Door-Password Access Electronic Lock Hi-O: Vapor Generator Hi-O: Reagent CO, Gas Pressure Regulator Automatic CO; Cylinder Changeover System	inches mm inches mm passive/active passive/active active high high bigh dB(A) dB(A) response dB(A) response dB(A) response resp	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15P receptacle 24 MCO-19UVS-PA — 0 — 15; MCO-100L 0 — 60; MCO-100N MCO-5GC-PW	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — (V=Vrisual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R I15V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15P receptacle 24 MCO-19U/VS-PA — 0 – 15; MCO-100L — MCO-5GC-PW	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R R V-B-R V-B-R V-B-R V-B-R V-B-R I15V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 29 MCO-170UVS-PA MCO-170UVS-PA MCO-170US-PA MCO-170E-PW® MCO-170E-PW®	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-8-R V-9-R
Access Port Diameter Leveling Feet and Casters Decontamination Control Incu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ:0;) Vapor Alarms Power Failure Temperature or Gas Deviation CO; Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ^{Sh} Options SafeCell UV Light System Hydrogen Peroxide (HJ:0;) Vapor Board Outer Door-Password Access Electronic Lock H:0; Vapor Generator H:0; Reagent CO; Gas Pressure Regulator Automatic CO; Cylinder Changeover System 4-20mA Analog Output	inches mm inches mm passive passive/active active active high high bigh dB(A) active active bigh bi	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B — 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — 0 — 0 <tr< td=""><td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — (V=Vrisual Alarm, Buzzer R V-B-R V-R V-B-R V-B-R V-R V-R V-R V-R V-R V-R V-R V</td><td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B 115V, 12, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 MCO-170US-PA MCO-170US-PA MCO-170US-PA MCO-170US-PA MCO-170E-PW[®] MCO-170E-PW[®] MCO-170E-PW[®] MCO-170E-PW[®] MCO-120E-PW 0 – 15; MCO-100L 0 – 60; MCO-100N</td><td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-8-R V-9-R</td></tr<>	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — (V=Vrisual Alarm, Buzzer R V-B-R V-R V-B-R V-B-R V-R V-R V-R V-R V-R V-R V-R V	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B 115V, 12, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 MCO-170US-PA MCO-170US-PA MCO-170US-PA MCO-170US-PA MCO-170E-PW [®] MCO-170E-PW [®] MCO-170E-PW [®] MCO-170E-PW [®] MCO-120E-PW 0 – 15; MCO-100L 0 – 60; MCO-100N	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-8-R V-9-R
Access Port Diameter Leveling Feet and Casters Decontamination Control Incu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ:0;) Vapor Alarms Power Failure Temperature or Gas Deviation CO; Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ^{Sh} Options SafeCell UV Light System Hydrogen Peroxide (HJ:0;) Vapor Board Outer Door-Password Access Electronic Lock H:0; Vapor Generator H:0; Gas Pressure Regulator N: Gas Pressure Regulator Automatic CO; Cylinder Changeover System 4-20mA Analog Output InCu-safe Shelf	inches mm inches mm attive passive/active active active high high high bigh bigh bigh bigh dB(A) bigh dB(A	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — 0 -15; MCO-100L 0 15; MCO-100L 0 0 0 0 0 0 0 0 0 0	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — (V=Vrisual Alarm, Buzzer R (V-B-R V-R V-R V-R V-R V-R V-R V-R V	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Optional Alarm, R=Remote Alarm) R R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R I15V 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade CO-170UVS-PA MCO-170UVS-PA MCO-170UVS-PA MCO-170UVS-PA MCO-170EI-PW [®] MCO-170EI-PW [®] MCO-170UL-PW [®] MCO-170EI-PW [®] MCO-170EI-PW [®] MCO-170UXS-PA	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R R V-8-R V-9-R
Access Port Diameter Leveling Feet and Casters Decontamination Control Incu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ-0) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ^{Sh} Options SafeCell UV Light System Hydrogen Peroxide (HJ-0) Vapor Board Outer Door-Password Access Electronic Lock HJ-0: Vagor Generator HJ-0: Reagent CO; Gas Pressure Regulator Automatic CO; Cylinder Changeover System 4-20mA Analog Output InCu-safe Shelf InCu-safe Shelf-Reinforced	upsolve passive/active passive/active active high dB(A) dB(A) package of 6 psi psi psi psi upsi	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — 0 -15; MCO-100L 0 0 0 0 0 0 0 0	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Visual Alarm, Buzzer R (V=B-R V-B-R	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R R V-B-R V-R V-R V-R V-R V-R V-R V-R V	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1ncluded (stainless steel copper enriched alloy) Optional
Access Port Diameter Leveling Feet and Casters Decontamination Control Incu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ-0) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level % Options SafeCell UV Light System Hydrogen Peroxide (HJ-0) Vapor Board Outer Door-Password Access Electronic Lock H-0) Vapor Generator H-00 Vapor Generator H-00 Regent CO, Gas Pressure Regulator Automatic CO, Cylinder Changeover System 4-20mA Analog Output Incu-safe Shelf Incu-safe Shelf-Reinforced Double Stacking Bracket [®]	upsolve passive/active passive/active passive/active passive/active passive/active passive/active active passive/active active bigh active bigh active bigh active bigh active active <t< td=""><td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — 0 -15; MCO-10UL 0 0 0 0 0 0 0 0 0 0 0 0 0 15, MCO-100L 0 0 0 0 0 0 0 0 0 0 15; MCO-100L 0 0 0 0 0 0 0 0 0</td><td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Vrisual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R V-B MCO-10U/VS-PA 0 0 0 MCO-10U/VS-PA 0 0 MCO-10U/VS-PA <tr< td=""><td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R R V-B-R V-B-R V-B-R V-B-R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R R V-D R R R R R R R R R R R R R</td><td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1ncluded (stainless steel copper enriched alloy) Optional </td></tr<></td></t<>	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — 0 -15; MCO-10UL 0 0 0 0 0 0 0 0 0 0 0 0 0 15, MCO-100L 0 0 0 0 0 0 0 0 0 0 15; MCO-100L 0 0 0 0 0 0 0 0 0	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Vrisual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R V-B MCO-10U/VS-PA 0 0 0 MCO-10U/VS-PA 0 0 MCO-10U/VS-PA <tr< td=""><td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R R V-B-R V-B-R V-B-R V-B-R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R R V-D R R R R R R R R R R R R R</td><td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1ncluded (stainless steel copper enriched alloy) Optional </td></tr<>	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R R V-B-R V-B-R V-B-R V-B-R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R R V-D R R R R R R R R R R R R R	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1ncluded (stainless steel copper enriched alloy) Optional
Access Port Diameter Leveling Feet and Casters Decontamination Control Incu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ-0) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level ® Options SafeCell UV Light System Hydrogen Peroxide (HJ-0) Vapor Board Outer Door-Password Access Electronic Lock H-0) Vapor Generator H-00 Vapor Generator H-00 Regent CO, Gas Pressure Regulator Automatic CO, Cylinder Changeover System 4-20mA Analog Output Incu-safe Shelf Incu-safe Shelf-Reinforced Double Stacking Bracket ®	upsolve passive/active passive/active passive/active active massive/active active a	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — 0 -15; MCO-10UL 0 0 0 0 0 0 0 0	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional (V=Vrisual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 24 MCO-19U/VS-PA 0 0 MCO-19U/VS-PA MCO-101U/S-PA MCO-30ST-PW	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B-R V-B R V-B R V-B-R V-B R V-D R R V-D R R R V-D R R R R R R R R R R R R R	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1ncluded (stainless steel copper enriched alloy) Optional
Access Port Diameter Leveling Feet and Casters Decontamination Control Incu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ-0.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level % Options SafeCell UV Light System Hydrogen Peroxide (HJ-0.) Vapor Board Outer Door-Password Access Electronic Lock H-0.0 Vapor Generator H-0.0 Reagent CO, Gas Pressure Regulator Automatic CO, Cylinder Changeover System 4-20mA Analog Output Incu-safe Shelf Incu-safe Shelf-Reinforced Double Stacking Placket % Stacking Place 7 Roller Base	upsolve passive/active passive/active passive/active active high bigh bigh </td <td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — — 0 -15; MCO-100L 0 0 0 0 0 0 0 0 0 0 0 0 15; MCO-100L 0 0 0 0 0 0 0 0 0 15; MCO-100L 0 0 16; MCO-30ST-FW — 16; Mcded 16; Mcded</td> <td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 0.0ptional 0.0p</td> <td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Optional N-B-R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 MCO-170UVS-PA MCO-170HB-PA[®] MCO-170EL-PW[®] MCO-170EL-PW[®] MCO-170EL-PW[®] MCO-170EL-PW[®] MCO-170FL-PW[®] MCO-170FL-PW[®] MCO-170FF-PW MCO-170FF-PW</td> <td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1ncluded (stainless steel copper enriched alloy) Optional</td>	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — — 0 -15; MCO-100L 0 0 0 0 0 0 0 0 0 0 0 0 15; MCO-100L 0 0 0 0 0 0 0 0 0 15; MCO-100L 0 0 16; MCO-30ST-FW — 16; Mcded 16; Mcded	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 0.0ptional 0.0p	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Optional N-B-R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 MCO-170UVS-PA MCO-170HB-PA [®] MCO-170EL-PW [®] MCO-170EL-PW [®] MCO-170EL-PW [®] MCO-170EL-PW [®] MCO-170FL-PW [®] MCO-170FL-PW [®] MCO-170FF-PW	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1ncluded (stainless steel copper enriched alloy) Optional
Access Port Diameter Leveling Feet and Casters Decontamination Control Incu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ-0.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level % Options SafeCell UV Light System Hydrogen Peroxide (HJ-0.) Vapor Board Outer Door-Password Access Electronic Lock H-0.' Vapor Generator H-0.' Reagent COL Gas Pressure Regulator Automatic CO, Cylinder Changeover System 4-20mA Analog Output Incu-safe Shelf-Reinforced Double Stacking Placket ® Stacking Placket % Stacking Placket % Column Colu	upsolve passive/active dB(A) package of 6 psi	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — — 0 -15; MCO-100L 0 0 0 -15; MCO-100L 0 0 -15; MCO-100L 0 0 15, MCO-100N MCO-30ST-PW — <td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 0.0 optional 0.0 op</td> <td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Optional V-B V-B-R V-B-R V-B Included (stainless steel copper enriched alloy) VB-R V-B-R V-B-R V-B V-B Interventer V-B NCO-170US-PA MCO-170US-PA MCO-170HE-PA® MCO-170E-PW® MCO-170E-PW MCO-170SI-FW MCO-170SI-FW MCO-170SI-FW MCO-170SI-PW MCO-170SI-PW MCO-170SI-PW MCO-170SI-PW <</td> <td>1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 00000000000000000000000000000000000</td>	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 0.0 optional 0.0 op	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Optional V-B V-B-R V-B-R V-B Included (stainless steel copper enriched alloy) VB-R V-B-R V-B-R V-B V-B Interventer V-B NCO-170US-PA MCO-170US-PA MCO-170HE-PA® MCO-170E-PW® MCO-170E-PW MCO-170SI-FW MCO-170SI-FW MCO-170SI-FW MCO-170SI-PW MCO-170SI-PW MCO-170SI-PW MCO-170SI-PW <	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 00000000000000000000000000000000000
Access Port Diameter Leveling Feet and Casters Decontamination Control Incu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:0.2) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open UV Lamp Fault (optional) Electrical and Noise Level Power Supply Noise Level % Options SafeCell UV Light System Hydrogen Peroxide (H:0.2) Vapor Board Outer Door-Password Access Electronic Lock H:0.2 Vapor Generator H:0.3 Reagent CO: Gas Pressure Regulator Automatic CO; Cylinder Changeover System 4-20mA Analog Output Incu-safe Shelf Incu-safe Shelf-Reinforced Double Stacking Placket ® Stacking Placket Nor Kit LabAlert® Monitoring System	upsolve passive/active passive/active active massive/active active bigh	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional — R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 24 MCO-19UVS-PA — 0 -15; MCO-10US-PA — 0 0 0 0 0 0 15; MCO-100L 0 0 15; MCO-100L 0 0 0 15; MCO-100L 0 0 15; MCO-100N MCO-30ST-PW MCO-30ST-PW — — 10 10 10 10 10 10 115, MCO-100N MCO-30ST-PW —	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet 0 Optional 0 Optional 0 Optional 0 Optional 0 V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R 0 - 15, NEMA 5-15P requires NEMA 5-15P NEO-19UVS-PA 0 - 15; MCO-10UL 0 - 15; MCO-10U	1.2 30 (with silicone (non-VOC) stopper) 4 leveling feet Included (stainless steel copper enriched alloy) Optional Optional Optional N-B-R V-B-R V-B-R V-B-R V-B-R V-B 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 29 MCO-170UVS-PA MCO-170UF-PA® MCO-170UF-PA MCO-170HE-PA® MCO-170HE-PA® MCO-170HE-PA® MCO-170R-PA® MCO-170R-PA® MCO-170R-PA® MCO-170ST-FW MCO-170ST-FW MCO-170SF-PW MC	

Exterior dimensions of main cabinet only, excluding handle and other external projections
 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*
 Current warranty offered at time of printing and may be subject to change; US and Canada only
 Ambient temperature 23°C, setting 37°C, CO; 5%, no load, air temperature measured at incubator center

Nominal value – Background noise 20dB(A)
 MCO-170M and MCO-230AIC series requires MCO-170HB-PA, MCO-170EL-PW, MCO-170UVS-PW and MCO-HP-PW for H₂O₂ Decontamination
 Allows for stacking MCO-170ACL onto any MCO-170 unit

SPECIFICATIONS

Models: MCO-170AICUVL-PA | MCO-170AICUVHL-PA | MCO-170AICUVDL-PA | MCO-230AICUVL-PA | MCO-80ICL-PA

Dimensions		170AICUVL-PA 170AI	CUVHL-PA	MCO-170AICUVDL-PA	MCO-230AICUVL-PA	MCO-80ICL-PA
External Dimensions (W × D × H) 1)	inches mm	24.4 × 28.7 × 35.6 620 × 7	30 × 905	24.4 × 29.7 × 35.6 620 × 755 × 905	30.3 × 28.7 × 35.6 770 × 730 × 905	38.6 × 37.2 × 80.3 986 × 945 × 2040 2)
Internal Dimensions (W × D × H)	inches mm	19 3 × 20 6 × 26 2 490 × 5	23 × 665	19 3 × 20 6 × 26 2 490 × 523 × 665	25 3 × 20 6 × 27 6 643 × 523 × 700	31.7 × 27.3 × 60.0 806 × 693 × 1524
Volume	cu ft Uiters	5.9 165		5.9 165	81 220	20.1 851
Not Weight	lbs ka	176 00		176 90	108 00	50.1 051
Net weight	IDS Kg	1/6 80		176 80	198 90	606 275
Weinste 2		2	<u> </u>	2. war and address 5. war 60. second	2 years and and labor 5 years 60 years	2 were easte and labor
Warranty "	00	5 years parts and labor, 5 years	CO ₂ serisor	5 years parts and labor, 5 years CO ₂ sensor	5 years parts and labor, 5 years CO ₂ sensor	5 years parts and labor
Temperature Control Range and Fluctuation 4	Ϋ́	+5 above ambient to +50,	± 0.1	+5 above ambient to +50, \pm 0.1	+5 above ambient to +50, \pm 0.1	+5 above ambient to +50, \pm 0.1
Temperature Uniformity 4)	°C	± 0.25		± 0.25	± 0.25	± 0.5 (9 point measurement)
CO ₂ Control Range and Fluctuation 4	%	0 to 20, ± 0.15		0 to 20, ± 0.15	0 to 20, ± 0.15	0 to 20, ± 0.15
O2 Control Range and Fluctuation 4)	%	_		_	_	
Humidity Level & Fluctuation	% RH	95 at 37°C, ± 5		95 at 37°C, ± 5	95 at 37°C ± 5	Normal mode: over 80 (high mode: over 90)
Control						
Controller with Thermistor Sensor		Microprocessor		Microprocessor	Microprocessor	Microprocessor
Display	qty	Color LCD touchscreen readab	ble in 0.1	Color LCD touchscreen readable to 0.1	Color LCD touchscreen readable to 0.1	2; LED (1 for temperature and 1 for CO ₂)
		increments		increments	increments	readable to 0.1 increments
Sensor	CO ₂ O ₂	Dual filter IR		Dual filter IR	Dual filter IR	IR
Construction						
Exterior Material		Painted steel (rear cover coat	ed steel)	Painted steel (rear cover coated steel)	Painted steel (rear cover coated steel)	Painted steel
Interior Material		Stainless steel copper enrich	ed alloy	Stainless steel copper enriched alloy	Stainless steel copper enriched alloy	Stainless steel copper enriched alloy
Outer Door	qty	1		1 with electronic password protected lock	1	1; Dual pane heated glass with latch (provision for padlock)
Field Reversible Door		Included		Included	Included	(provision for padiock)
		1 (cooling to read	oritius Intel 1	1 (cooling temperature with a 22 - 1 - 22	1 (cooling toppered derevity 1971 1971)	
	qty	i (sealing tempered glass with po	usitive latch)	i (sealing tempered glass with positive latch)	i (sealing tempered glass with positive latch)	Uptional
Humidity Pan	qty	1 (stainless steel)		1 (stainless steel)	1 (stainless steel)	_
Condensation Management		Included		_	Included	
Humidity Reservoir Drain	qty	_		_	—	Drain valve – lower side front (tray provided)
Humidity Reservoir Material		_				Stainless steel
Shelves	qty	4 (stainless steel copper enrich	hed alloy)	4 (stainless steel copper enriched alloy)	4 (stainless steel copper enriched alloy)	5 (stainless steel copper enriched alloy)
Shelf Dimension (W \times D \times H)	inches mm	18.5 × 17.7 × 0.5 470 × 4	50 × 12	18.5 × 17.7 × 0.5 470 × 450 × 12	24.4 × 17.7 × 0.5 620 × 450 × 12	$30.6 \times 25.9 \times 0.4$ 776 × 659 × 10
Max. Load per Shelf	lbs kg	15.4 7		15.4 7	15.4 7	66.1 30
Max.Total Load	lbs kg	61.6 28		61.6 28	61.6 28	330.0 150
Max. Shelf Capacity	qty	10		10	10	18
Access Port / Position	atv	1: rear upper left		1: rear upper left	1: rear upper left	2: right side and left side
Access Port Diameter	inches mm	1.2 30 (with silicone (non-V/O	() stopper)	1.2 30 (with silicone (non-VOC) stopper)	1.2 30 (with silicone (non-VOC) stopper)	1.6 40 (with silicone (non-)/OC) stopper)
/ cccss for blancter	indics min	1.2 50 (4411 3110010 (1011 400	c/ stopper/	1.2 50 (with sileone (non voe) stopper)	1.2 50 (with silicone (non voc) stopper)	1.0 40 (with sileone (non voe) stopper)
Loveling Feet and Casters	atv	A lovaling fact		A lovaling fact	A lovaling fact	A loveling feet A casters (swivel)
Leveling Feet and Casters	qty	4 leveling feet		4 leveling feet	4 leveling feet	4 leveling feet, 4 casters (swivel)
Leveling Feet and Casters Decontamination Control InCurcle Chamber Air Planum and Shelver	qty	4 leveling feet	priched allow)	4 leveling feet	4 leveling feet	4 leveling feet, 4 casters (swivel)
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves Seferal UK Liebe Sectors	qty passive	4 leveling feet Included (stainless steel copper er	nriched alloy)	4 leveling feet Included (stainless steel copper enriched alloy)	4 leveling feet Included (stainless steel copper enriched alloy)	4 leveling feet, 4 casters (swivel)
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Numer Co. 11 (100)	qty passive passive/active	4 leveling feet Included (stainless steel copper en Included	nriched alloy)	4 leveling feet Included (stainless steel copper enriched alloy) Included	4 leveling feet Included (stainless steel copper enriched alloy) Included	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O ₂) Vapor	qty passive passive/active active	4 leveling feet Included (stainless steel copper er Included Optional Included Included	nriched alloy) ncluded	4 leveling feet Included (stainless steel copper enriched alloy) Included	4 leveling feet Included (stainless steel copper enriched alloy) Included Optional	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional —
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O.) Vapor Alarma Denue Sellere	qty passive passive/active active	4 leveling feet Included (stainless steel copper en Included Optional Ir	nriched alloy) ncluded	4 leveling feet Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer	4 leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm)	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional
Leveling Feet and Casters Decontamination Control InCu-saFe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H.O.) Vapor Alarms Power Failure	qty passive passive/active active	4 leveling feet Included (stainless steel copper en Included Optional In R	nriched alloy) ncluded	4 leveling feet Included (stainless steel copper enriched alloy) Included — (V=Visual Alarm, Buzzer R	4 leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R
Leveling Feet and Casters Decontamination Control InCu-saFe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H.D.) Vapor Alarms Power Failure Temperature or Gas Deviation	qty passive passive/active active high	4 leveling feet Included (stainless steet copper en Included Optional In R V-B-R	nriched alloy) ncluded	4 leveling feet Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer R V-8-R	4 leveling feet Aleveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R
Leveling Feet and Casters Decontamination Control InCu-saFe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H.O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty	qty passive passive/active active high	4 leveling feet Included (stainless steet copper en Included Optional In R V-B-R V-B-R	nriched alloy) ncluded	4 leveling feet 4 leveling feet Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R	4 leveling feet 4 leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R	4 leveling feet, 4 casters (swivel) A leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R V-B-R
Leveling Feet and Casters Decontamination Control InCu-saFe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H.Jo.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open	qty passive passive/active active high	4 leveling feet Included (stainless steel copper en Included Optional In R V-B-R V-B-R V-B	nriched alloy) ncluded	4 leveling feet 4 leveling feet 1 Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B	4 leveling feet 4 leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B	4 leveling feet, 4 casters (swivel) A leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R V-B-R V-B
Leveling Feet and Casters Decontamination Control InCu-saFe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H.J.O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir	qty passive passive/active active high	4 leveling feet Included (stainless steet copper en Included Optional R V-B-R V-B-R V-B-R V-B	nriched alloy) ncluded	4 leveling feet Included (stainless steel copper enriched alloy) Included Included R V-B-R V-B-R V-B-R V-B Included	4 leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B	4 leveling feet, 4 casters (swivel) A leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R V-B-R V-B V
Leveling Feet and Casters Decontamination Control InCu-saFe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level	qty passive passive/active active high	4 leveling feet Included (stainless steel copper en Included Optional In V-B-R V-B-R V-B-R V-B-R 1000000000000000000000000000000000000	nriched alloy) ncluded	4 leveling feet Included (stainless steel copper enriched alloy) Included I	4 leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R V-B-R V-B V-B V-B V
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Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:0-) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁵⁹	qty passive/active active high	4 leveling feet Included (stainless steel copper er Included (stainless steel copper er Optional Ir R R V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5 requires NEMA 5-15R rece 29	nriched alloy) ncluded -15P ptacle	4 leveling feet 4 leveling feet Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R 115V, 126, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 25	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R ISV, V-B ISV,	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O2) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁵³ Outlet, Chamber Duplex – Vapor Proof Cover	qty passive/active active high	4 leveling feet A leveling feet Included (stainless steel copper er Optional R V-B-R V-B-R V-B-R I-S-V-B- I-S-V-B I-S-	nriched alloy) ncluded	4 leveling feet 4 leveling feet Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R I15V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 25	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B Instruktion Instru	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V
Leveling Feet and Casters Decontamination Control In Cu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJO) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ^{S1} Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet	qty passive/active active high dB(A)	4 leveling feet A leveling feet Included (stainless steel copper en Optional R V-B- V-B- V-B- V-B- 115V, 10, 60Hz, NEMA 5 requires NEMA 5-15R rece 29	nriched alloy) ncluded	4 leveling feet Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B II15V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 25	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R INSV, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 25 — — — — — — — — — — — — —	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R V-B-R V-B-R V-B V IISV, 10, 60Hz, NEMA 5-20P requires NEMA 5-202 33 1; 115V 3 amps max rating 1; 115V 3 amps max rating 1; 115V 1 amps max rating
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H.O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ¹³ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options	qty passive/active active high dB(A)	4 leveling feet A leveling feet Included (stainless steel copper er Optional R V-B- V-B- V-B- V-B- 115V, 10, 60Hz, NEMA 5 requires NEMA 5-15R rece 29	nriched alloy) ncluded	4 leveling feet Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B II15V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 25	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B Included Include I	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R V-B-R V-B-R V-B V Instruction Instructi
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ:O) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System	qty passive passive/active active high dB(A)	4 leveling feet Included (stainless steel copper en Included (stainless steel copper en Note the the the the the the the the the t	nriched alloy) ncluded -15P ptade	4 leveling feet 4 leveling feet 1 Included (stainless steel copper enriched alloy) Included	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B-R INSV, 108, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 25 25 — MCO-170UVS-PA (included)	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R V-B-R V-B V IISV, 10, 60Hz, NEMA 5-20 requires NEMA 5-20 33 1; 115V 1 amps max rating 1; 115V 1 amps max rating MCC-8UUVS-PA
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ:O) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level [®] Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir–Auto Fill System	qty passive passive/active active high dB(A)	4 leveling feet Included (stainless steel copper en Included (stainless steel copper en Note that the steel copper ent Note	niched alloy) - ncluded - 15P ptade - 1	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included (v=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R IV-B-R IV-B IV-B	4 leveling feet Aleveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B-R INSV, 08, 60Hz, NEMA 5-15P requires NEMA 5-15P requires NEMA 5-15P requires NEMA 5-15R receptade C5 MCO-170UVS-PA (included)	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R V-B-R V-B V Included (stainless teel copper enriched alloy Included (stainless steel copper enriched alloy
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ³⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Hydrogen Peroxide (H:O.) Vapor Board	qty passive active high dB(A)	4 leveling feet Included (stainless steel copper en Included (stainless steel copper en Note of the state	niched alloy) ncluded -15P ptade	4 leveling feet 4 leveling feet 1 Included (stainless steel copper enriched alloy) Included	4 leveling feet Aleveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B-R ISV, V-B	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R V-B V-B V OV Included Stainless are stain MCO-80UVS-PA MCO-80US-PW
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (HJ:O) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir—Auto Fill System Hydrogen Peroxide (H:O.) Vapor Board Outler, Coon-Password Access Electronic Lock	qty passive/active active high	4 leveling feet Included (stainless steel copper en Included (stainless steel copper en Coptional I Included R V-B-R COPPER N-B-R IntSV, 10, 60Hz, NEMA 5- 115V, 10, 60Hz, NEMA 5- 115V, 10, 60Hz, NEMA 5- 115V, 10, 60Hz, NEMA 5- 15K receive COPPER NEMA 5-15K receive NEMA	nriched alloy) ncluded -15P ptade	4 leveling feet 4 leveling feet 4 leveling feet 1 ncluded 1 ncluded		4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V-B-R V-B-R V-B V V V V V Included Stainless Test (Statement of the statement of the state
Leveling Feet and Casters Decontamination Control In Cu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Hydrogen Peroxide (H-O.) Vapor Board Outer Dor-Password Access Electronic Lock HyO, Vapor Generator	qty passive/active active high	4 leveling feet Included (stainless steel copper er Note of the steel copper er Optional Ir Note of the steel Note of the	nriched alloy) ncluded -15P ptade	4 leveling feet Included (stainless steel copper enriched alloy) Included Included Included Included Included Included Included Included Included Included Include Included Included Included Included Included Included Included Include Include Included Include Includ	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R Included Included Inc	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional
Leveling Feet and Casters Decontamination Control In Cu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Hydrogen Peroxide (H-O.) Vapor Board Outer Don-Password Access Electronic Lock H _i O, Vapor Generator Huo Regent	qty passive active high dB(A)	4 leveling feet Included (stainless steel copper er Note of the steel of the steel Optional Ir R R R V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5 requires NEMA 5-15R rece 115V, 10, 60Hz, NEMA 5 requires NEMA 5-15R rece 115V, 10, 60Hz, NEMA 5 R NCO-170HE-RA ¹⁰ MCO-170EL-PW ¹⁰ MCO-H202-PV ¹⁰	nriched alloy) ncluded -15P ptade	4 leveling feet Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B I15V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade 25	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B Included Included I	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V
Leveling Feet and Casters Decontamination Control In Cu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Hydrogen Peroxide (H:O.) Vapor Board Outer Door-Password Access Electronic Lock H;O, Vapor Generator Ho: Reservti Ho: Reservti Ho: Reservti	qty passive active active high dB(A) dB(A)	4 leveling feet Included (stainless steel copper er Optional Ir R R V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, NEMA 5 requires NEMA 5-15R rece 29 115V, 10, 60Hz, NEMA 5 requires NEMA 5-15R rece R CO-170EL-PW % MCO-H7-PW % MCO-H70EL-PW %	nriched alloy) ncluded -15P ptacle	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included (V=Vrisual Alarm, Buzzer R V-B-R V-B-R V-B-R Instruction Inst	4 leveling feet 4 leveling feet 1 cluded (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R V-B-R V-B-R V-B-R V-B-R V-B-R Intlov, NEMA 5-15P requires NEMA 5-15R receptacle 115V, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptacle 125 125 125 125 125 125 125 12	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹¹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Kydrogen Peroxide (H:O.) Vapor Board Outer Door-Password Access Electronic Lock H;O, Vapor Generator H;O: Reagent Semi-Automatic One Point Gas Calibration Kit CO; Gas Pressure Remulator	qty passive active active high dB(A) dB(A) gackage of 6	4 leveling feet Included (stainless steel copper er Included (stainless steel copper er Optional Ir N-B-R N-B-R N-B-R N-B-R 115V, 10, 60Hz, NEMA 5 requires NEMA 5-15R rece 115V, 10, 60Hz, NEMA 5 requires NEMA 5-15R rece 115V, 10, 60Hz, NEMA 5 N-C-170HB-PA ³ MCO-170EL-PW ³ MCO-170	nriched alloy) ncluded -15P ptacle	4 leveling feet Included (stainless steel copper enriched alloy) Included (V=Vrisual Alarm, Buzzer R (V-B-R V-B-R V-B-R V-B-R V-B-R IISV, 12, 60Hz, NEMA S-15P requires NEMA S-15R receptacle 25 25 25 25 25 25 25 25 25 25 25 25 25	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R N-B-R V-B-R V-B-R V-B-R V-B-R Intlov, NEMA S-15P requires NEMA S-15P requires NEMA S-15P requires NEMA S-15R receptacle C C C C C C C C C C C C C C C C C C	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R V-B-R V
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O ₂) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ³⁰ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Hydrogen Peroxide (H:O ₂) Vapor Board Outlet poor-Password Access Electronic Lock H ₂ O ₂ Vapor Generator H ₂ On Reagent Semi-Automatic One Point Gas Calibration Kit CO ₂ Gas Pressure Regulator	qty passive/active active high dB(A) dB(A)	4 leveling feet Included (stainless steel copper er Optional III N-B-R N-B	nriched alloy) ncluded -15P ptacle	4 leveling feet 4 leveling feet 1 Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R V-B-R INC-SGC PM CO-SCC PM CO-SC	4 leveling feet 4 leve	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R R V-B-
Leveling Feet and Casters Decontamination Control In Cu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O ₂) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ³ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir–Auto Fill System Hydrogen Peroxide (H:O ₂) Vapor Board Outer Door–Password Access Electronic Lock H,O ₂ Vapor Generator H:O ₂ Reagent Semi-Automatic One Point Gas Calibration Kit CO ₂ Gan Pressure Regulator Automatic CO ₂ Cylinder Changeover System	qty passive/active active high dB(A) dB(A)	4 leveling feet Included (stainless steel copner er Optional III (IIII) R IIII (IIII) R IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	nriched alloy) ncluded	4 leveling feet 4 leveling feet 1 Included (stainless steel copper enriched alloy) Included (V=Visual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R V-B-R INC-35C INCO-35C INCO-35C INCO-35C INCO-35C INCO-100L INCO-21GC-PW	4 leveling feet 4 leve	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R R V-B-R V-B-R V-B-R V-B-R V-B V I15V, 10, 60Hz, NEMA 5-20P requires NEMA 5-20 ragines NEMA 5-20
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H.O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ¹³ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Hydrogen Peroxide (H.O.) Vapor Board Outer Door-Password Access Electronic Lock H,O, Vapor Generator H,O: Reagent Semi-Automatic One Point Gas Calibration Kit CO; Gas Pressure Regulator Automatic CO: Cylinder Changeover System 4-20mA Analog Output	qty passive/active active high dB(A) dB(A)	4 leveling feet Included (stainless steel copner er Optional III - III - IIII - IIII - IIIII - IIIII - IIIIIIIIII	nriched alloy) ncluded	4 leveling feet 4 leveling feet 4 leveling feet 1 Included (stainless steel copper enriched alloy) 1 Included		4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R R V-B-R V-B-R V-B-R V-B V-B V
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O ₂) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ³ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Hydrogen Peroxide (H:O ₂) Vapor Board Outer Dour-Password Access Electronic Lock H ₂ O ₂ Gae pressure Regulator Automatic CO ₂ Cylinder Changeover System 4-20mA Analog Output InCu-safe Shelf	qty passive/active active active high dB(A) dB(A) package of 6 psi	4 leveling feet Included (stainless steel copner er Note of the steel of the steel Optional I Included V-B-R V-B-R V-B-R V-B-R 115V, 10, 60Hz, VEMA 5 requires NEMA 5-15R rece 115V, 10, 60Hz, VEMA 5 requires NEMA 5-15R rece 115V, 10, 60Hz, VEMA 5 Received NEMA 5-15R received NCO-170HB-PA ³ MCO-170HB-PA ³ MCO-170HB-	nriched alloy) ncluded	4 leveling feet Included (stainless steel cooper enriched alloy) Included Included Included Included Included Included Included In		4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R R V-B-
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H:O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Hydrogen Peroxide (H:O.) Vapor Board Outer Door-Password Access Electronic Lock H;O. Yapor Generator H:O: Reagent Semi-Automatic One Point Gas Calibration Kit CO; Gas Pressure Regulator Automatic CO: Cylinder Changeover System 4-20mA Analog Output InCu-safe Shelf InCu-safe Shelf-Reinforced ⁹	qty passive/active active active high dB(A) dB(A) package of 6 psi	4 leveling feet Included (stainless steel corper er A corper and the steel corpe	niched alloy) ncluded	4 leveling feet 4 leveling feet 4 leveling feet 1 Included (stainless steel copper enriched alloy) 1 Included	4 leveling feet Included (stainless steel cooper enriched alloy) Included (stainless steel cooper enriched alloy) Optional Alarm, R=Remote Alarm) R R V-B-R NCO-100L MCO-170EL-PW @ MCO-170EL-PW @ MCO-170EL-PW @ MCO-170EL-PW @ MCO-170EL-PW @ MCO-170EL-PW MCO-170EL-PW MCO-170EL-PW MCO-170EL-PW MCO-170EL-PW MCO-170EL-PW MCO-170EL-PW	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional R R V-B-R N-C-B-C N-C-R V-D-15; MCC-100L MCC-800(CRSLF3 MCC80(CRSLF3
Leveling Feet and Casters Decontamination Control In Cu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Humidity Reservoir-Auto Fill System Humidity Reservoir-Auto Fill System Uuter, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Humidity Reservoir-Reser	qty passive/active active high 	4 leveling feet Included (stainless steel corpore of Optional of r P C C C C C C C C C C C C C	nriched alloy) ncluded	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Included Included Included Included Included Include Inc	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R R R R R R R R R R R R R R R R R R	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional V-B-R V-B
Leveling Feet and Casters Decontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Hydrogen Peroxide (H-O.) Vapor Board Outer Don-Password Access Electronic Lock H-O, Vapor Generator H-Oreaster Suppl Semi-Automatic One Point Gas Calibration Kit CO; Gas Pressure Regulator Automatic CO: Cylinder Changeover System 4-20mA Analog Output InCu-safe Shelf InCu-safe Shelf-Reinforced ⁽⁰⁾ Double Stacking Bracket ⁷⁰ Stacking Plate	qty passive active high 	4 leveling feet Included (stainless steel corpore of Optional of r PUBLIC CONTINUE R R R R R R R R R R R R R	nriched alloy) ncluded -15P ptade	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included (4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Renote Alarm) R R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R I I I I I I I	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional V-B-R NCO-804
Leveling Feet and Casters Decontamination Control In Cu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-O ₂) Vapor Alarms Power Failure Temperature or Gas Deviation CO ₂ Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Chamber Duplex – Vapor Proof Cover Automatic Co: Cylinder Changeover System 4-20mA Analog Output In Cu-safe Shelf In Cu-safe Shelf In Cu-safe Shelf – Reinforced ^(h) Double Stacking Bracket ^(h) Stacking Plate Roller Base	qty passive/active active active bigh bigh bigh bigh bigh bigh bigh bigh	4 leveling feet Included (stainless steel corper er Note of the steel of the ste	nriched alloy) ncluded -15P ptade	4 leveling feet Included (stainless steel copper enriched alloy) Included (V=V/sual Alarm, Buzzer R (V=V/sual Alarm, Buzzer R V+B-R V+B-R V+B-R V+B-R V+B-R INTER INTE	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Renote Alarm) R R V-B-R V-B-R V-B-R V-B-R V-B-R V-B I I I I I I I I I	4 leveling feet, 4 casters (swivel) Included (stainless steel copper enriched alloy Optional V-B-R NCO-804 V-D-15; MCO-100L MCO-804 C-PW MCO-804 C-PW MCO-804 C-PW MCO-804 C-PW MCO-804 C-PW
Leveling Feet and Casters Pecontamination Control InCu-safe Chamber, Air Plenum and Shelves SafeCell UV Light System Hydrogen Peroxide (H-O.) Vapor Alarms Power Failure Temperature or Gas Deviation CO, Supply Empty Door Open Low Water in Humidity Reservoir Electrical and Noise Level Power Supply Noise Level ⁹ Outlet, Chamber Duplex – Vapor Proof Cover Outlet, Cabinet Outlet Options SafeCell UV Light System Humidity Reservoir-Auto Fill System Humidity Reservoir-Auto Fill System Humidity Reservoir-Auto Fill System Couter, Coalerator Ho, Vapor Generator H-O, Vapor Generator H-O, Reagent Semi-Automatic One Point Gas Calibration Kit CO; Gas Pressure Regulator Automatic CO, Cylinder Changeover System 4-20mA Analog Output InCu-safe Shelf InCu-safe Shelf-Reinforced ⁽⁹⁾ Double Stacking Bracket ⁷⁾ Stacking Plate Roller Base Inner Door Kit	qty passive passive/active active active bigh bigh bigh bigh bigh bigh bigh bigh	4 leveling feet Included (stainless steel corper er Note of the steel of the ste	nriched alloy) ncluded	4 leveling feet Included (stainless steel copper enriched alloy) Included (V=Vrisual Alarm, Buzzer R (V=Vrisual Alarm, Buzzer R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R IISV, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R receptade IISV, 10, 60Hz, NEMA 5-15P requires NEMA 5-15R COUPLING IISV, 10, 60Hz, NEMA 5-15P R IISV, 10, 60Hz, NEMA 5-15P IISV, 10, 60Hz, 100Hz, 10	4 leveling feet A leveling feet Included (stainless steel copper enriched alloy) Included Optional Alarm, R=Remote Alarm) R R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R V-B-R I I I I I I I I I I I I I I I I I I I	4 leveling feet, 4 casters (swivel) Included (stainless steel corper enriched alloy Optional V-B-R V-B

⁹ Exterior dimensions of main cabinet only, excluding handle and other external projections
 ²⁰ 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*
 ²¹ Current warrenty offered at time of printing and may be subject to change; US and Canada only
 ⁴ Ambient temperature 23°C, setting 37°C, CO; 5%, no load, air temperature measured at incubator center

³ Nominal value – Background noise 20dB(A)
⁶ Choose from three or four reinforced shelf configurations. Shelf selection must be specified when ordering
⁷ MCO-170M and MCO-230AIC series requires MCO-170HB-PA, MCO-170EL-PW, MCO-170UVS-PW and MCO-HP-PW for H₂O₂ Decontamination

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

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PHC Corporation of North America

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