49 L



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MCO-5AC-PE

IncuSafe

CO, Incubators





Personal-size compact CO, Incubator

Patient-specific, compact design, triple stackable CO, Incubator. Provides precise control of CO, concentration and accurate, uniform, and highly responsive temperature control within the chamber. During cell culturing, the inCu-saFe germicidal interior and SafeCell UV lamp work continuously to prevent contamination.

Controlled & Regulated **Environment**

InCu-saFe and SafeCell UV both function to prevent temperature whilst the TC

Stackable Design

MCO-5AC CO₂ incubator allows up to three units to need for additional floor

Monitoring & Control

Optimal visibility and conditions of the incubator use of its accurate digital



Optimum Cell Growth

Outstanding quality and performance for successful cell growth, optimal results and reproducibility.



Individual Cell Culturing

Compact and stackable these incubators are ideal for individual cell cultures from patient samples or small scale research projects.



Intuitive Usability

Control and visibility of the internal conditions, such as CO₂ level and temperature, are easy with the MCO-5AC CO₂ incubator.

IncuSafe CO, Incubators



Direct Heat and Air Jacket System

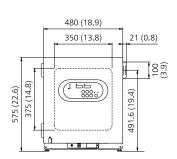
Achieves accurate, uniform, and highly responsive temperature control within the chamber, providing exceptional uniformity and rapid recovery after door-opening.

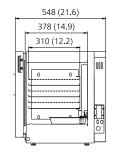
TC CO₂ Sensor

The incubator's thermal conductivity sensor and P.I.D control system delivers reliable and repeatable CO₂ control. The CO₂ setpoint is adjustable from 0 to 20%.

Active Background Decontamination

The inCu-saFe copper-enriched stainless steel alloy interior offers the germicidal properties of copper and the durability of stainless steel. The optional, isolated, SafeCell UV lamp decontaminates circulating air and water in the humidifying pan, without harming cultured cells.





Internal Dimensions (W x D x H)	Model Number		MCO-5AC-PE MCO-5ACUV-PE
Volume liters 49 Net Weight kg 49 Porformance 49 Temperature Control Range & Fluctuation °C AT +5 − +50, ±0.1 Temperature Uniformity ¹¹ °C ±0.25 CO ₂ , Control Range & Fluctuation ¹² % 0 − 20, ±0.15 Humidity Level & Fluctuation %RPI 95, ±5 Control To 100 Emperature Sensor TC TC Object Display LED Construction Exterior Material Painted Steel Interior Material Stainless Steel Copper-Enriched Alloy Insulation Material Painted Steel Interior Door qty 1 Outer Door qty 1 Outer Door qty 1 Sheld Reversible Door Included Inner Door qty 1 Shelf Dimensions (W x D x H) mm 310 x 310 x 12 Max. Shelf Capacity 4 4 Access Port Diameter 4 4	External Dimensions (W x D x H) ¹⁾	mm	480 x 548 x 575
Net Weight	Internal Dimensions (W x D x H)	mm	350 x 378 x 375
Performance Carrier Cantrol Range & Fluctuation °C	Volume	liters	49
Temperature Control Range & Fluctuation	Net Weight	kg	49
Temperature Uniformity °C	Performance		
CO_ Control Range & Fluctuation	Temperature Control Range & Fluctuation	°C	AT +5 ~ +50, ±0.1
CO_ Control Range & Fluctuation % 0 - 20, ±0.15 Humidity Level & Fluctuation %RH 95, ±5 Control Temperature Sensor Thermistor CO_ Sensor TC Display LED Construction Exterior Material Painted Steet Interior Material Painted Steet Copper-Enriched Alloy Insulation Material Briggid polyurethane foamed-in place Heating Method Direct Heat & Air Jacket System Outer Door qty 1 Outer Door qty 1 Field Reversible Door Included Inner Door qty 1 Shelves qty 3 x Stainless Steel Copper-enriched Alloy Shelves qty 3 x Stainless Steel Copper-enriched Alloy Max. Load per Shelf kg 4 Max. Shelf Capacity qty 6 Access Port qty 6 Access Port Diameter Ørm 30 Access Port Diameter Ørm 30	Temperature Uniformity ²	°C	±0.25
Humidity Level & Fluctuation	CO, Control Range & Fluctuation3	%	0 ~ 20, ±0.15
Thermistor	Humidity Level & Fluctuation	%RH	95, ±5
TC Display	Control		
Display	Temperature Sensor		Thermistor
Display	CO ₂ Sensor		TC
Exterior Material Painted Steel Interior Material Stainless Steel Copper-Enriched Alloy Insulation Material Direct Heat & Air Jacket System Outer Door qty 1 Outer Door Qtv N/A Field Reversible Door Included Inner Door qty 1 Shelves qty 3 x Stainless Steel Copper-enriched Alloy Shelf Dimensions (W x D x H) mm 310 x 310 x 12 Max. Load per Shelf kg 4 Max. Shelf Capacity qty 6 Access Port qty 1 Access Port Qty 1 Access Port Dimeter Ø mm 30 Alarms (R = Remote Alarm, Y = Visual Alarm, B = Buzzer Alarm) Power Failure V-B-R Out of CO ₂ Setting V-B-R Out of CO ₂ Setting V-B-R Out of CO ₂ Setting Alarms Alarms Alarms V-B-R Undo Coopen V-B-R Undo Coopen V-B-R Out of CO ₂ Setting Door Door N/A Noise Level ⁴⁸ dB 24 Options SafeCell UV® System MCO-19UVS-PE Standard Multiple Inner Doors N/A MCO-19UVS-PE Standard Multiple Inner Doors N/A Col-0-So Persuare Regulator MCO-100L-PW Alutomatic CO ₂ Cyclinder Changeover System MCO-30ST-PW InCu-saFe® Half Tray System N/A Stacking Kit Standard Roller Base MCO-5RB-PW Optional communication systems Counter of the First Counter of the Col-100L-PW Optional communication systems Counter of the Co			LED
Exterior Material Painted Steel Interior Material Stainless Steel Copper-Enriched Alloy Insulation Material Rigid polyurethane foamed-in place Heating Method Direct Heat & Air Jacket System Outer Door qty 1 Outer Door Lock N/A Field Reversible Door qty 1 Included Inner Door qty 1 Included Inner Door qty 1 Insulation Was Stainless Steel Copper-enriched Alloy Shelves qty 3 x Stainless Steel Copper-enriched Alloy Shelves New York Nove York Max. Load per Shelf kg 4 Max. Shelf Capacity qty 6 Access Port qty 1 Access Port qty 1 Access Port position Rear Upper Left Access Port Position Rear Upper Left Access Port Baiture N/A Out of Temperature Setting Y-B-R Unt of Temperature Setting Y-B-R Unt of Temperature Setting Y-B-R Door open Y-B-R Door open Y-B-R Door open Y-B-R Out of CO ₂ Setting Y-B-R Door open Y-B-R Door open Y-B-R Door open Y-B-R Out of CO ₂ Setting Y-B-R Door open Y-B-R Door open Y-B-R Door open Y-B-R Door open Y-B-R N/A Noise Level AB 24 Options SafeCell UV* System MCO-19UVS-PE Standard Multiple Inner Doors N/A Multiple Inner Doors N/A Multiple Inner Doors N/A NCO-1001-PW Automatic CO ₂ Cylinder Changeover System Inco-safe® Half Tray System N/A Stacking Kit Standard Roller Base MCO-5RB-PW Optional communication systems Steel Ethernet interface (LAN) N/A			
Interior Material Insulation Insulation Insulation Insulation Material Insulation Ins			Painted Steel
Insulation Material Heating Method Outer Door Outer Door Outer Door			
Heating Method			
Outer Door qty 1 Outer Door Lock N/A Field Reversible Door Included Inner Door qty 1 Shelves qty 3 x Stainless Steel Copper-enriched Alloy Shelf Dimensions (W x D x H) mm 310 x 310 x 12 Max. Load per Shelf kg 4 Max. Shelf Capacity qty 6 Access Port qty 1 Access Port Doistion Rear Upper Left Access Port Diameter Ø mm 30 Alarms IR = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm) Power Failure N/A Out of Tong Setting V - B - R Ut of CO ₂ Setting V - B - R Out of CO ₂ Setting V - B - R Door open V Electrical and Noise Level V Power Supply V 230 Frequency Hz 50 Noise Level ⁴ dB 24 Options MCO-19UVS-PE Standard Multiple Inner Doors			
Outer Door Lock Field Reversible Door Included Inner Door Included Include Included Include Included		atv	
Field Reversible Door		49	
Inner Door			
Shelves qty 3 x Stainless Steel Copper-enriched Alloy Shelf Dimensions (W x D x H) mm 310 x 310 x 12 Max. Load per Shelf kg 4 Max. Shelf Capacity qty 6 Access Port qty 1 Access Port Qty 1 Access Port Object of the stain		atv	
Shelf Dimensions (W x D x H)			
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Access Port Qty 1 Access Port Position Rear Upper Left Access Port Diameter Ø mm 30 Alarms (R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm) Power Faiture N/A Out of Temperature Setting V-B-R High Temperature V-B-R Out of CO ₂ Setting V-B-R Door open V Electrical and Noise Level Power Supply V 230 Frequency Hz 50 Noise Level ⁴¹ dB 24 Options SafeCell UV® System MCO-19UVS-PE Standard Multiple Inner Doors N/A CO ₂ Gas Pressure Regulator MCO-19UVS-PE MCO-30ST-PW InCu-saFe® Shelf MCO-30ST-PW InCu-saFe® Half Tray System N/A Stacking Kit Standard Roller Base MCO-5RB-PW Optional communication systems SI Ethernet interface (LAN) N/A		-	
Access Port Position Access Port Diameter			
Access Port Diameter Alarms (R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm) Power Faiture N/A Out of Temperature Setting V-B-R High Temperature Out of CO2 Setting Door open V Electrical and Noise Level Power Supply V 230 Frequency Hz 50 Noise Level Options SafeCell UV® System MCO-19UVS-PE Standard Multiple Inner Doors Automatic CO2 Cylinder Changeover System InCu-saFe® Shelf InCu-saFe® Half Tray System N/A Stacking Kit Roller Base Optional communication systems SIAA Optional communication systems N/A Ethernet interface (LAN) N/A		qty	
Alarms (R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm) Power Failure Out of Temperature Setting High Temperature Out of CO ₂ Setting Door open V Electrical and Noise Level Power Supply V 230 Frequency Hz 50 Noise Level Options SafeCell UV® System MCO-19UVS-PE Standard Multiple Inner Doors Automatic CO ₂ Cylinder Changeover System MCO-30ST-PW InCu-saFe® Shelf Roller Base Optional communication systems SIANA N/A Standard MCO-5RB-PW Optional communication systems SIANA N/A STANA N/A Stendard MCO-5RB-PW Optional communication systems N/A Stendard MCO-5RB-PW Optional communication systems		<i>a</i>	
Power Failure N/A Out of Temperature Setting V-B-R High Temperature V-B-R Out of CO2 Setting V-B-R Door open V Electrical and Noise Level V Power Supply V 230 Frequency Hz 50 Noise Level ⁴¹ dB 24 Options WCO-19UVS-PE Standard Multiple Inner Doors N/A MCO-19UVS-PE Standard Multiple Inner Doors MCO-100L-PW MCO-100L-PW Automatic CO2 Cylinder Changeover System MCO-56C-PW InCu-saFe® Shelf MCO-30ST-PW InCu-saFe® Half Tray System N/A Standard Roller Base MCO-5RB-PW Optional communication systems ⁹ Ethernet interface (LAN) N/A N/A			
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Out of CO₂ Setting V-B-R Door open V Electrical and Noise Level V Power Supply V 230 Frequency Hz 50 Noise Level ⁴ dB 24 Options WCO-19UVS-PE Standard Multiple Inner Doors N/A MCO-19UVS-PE Standard Multiple Inner Doors MCO-100L-PW MCO-100L-PW Automatic CO₂ Cylinder Changeover System MCO-5GC-PW MCO-30ST-PW InCu-saFe® Shelf MCO-30ST-PW InCu-saFe® Half Tray System N/A Standard Stacking Kit Standard MCO-5RB-PW Optional communication systems ⁵¹ Ethernet interface (LAN) N/A			
Door open V			
Power Supply V 230	*		
Power Supply V 230 Frequency Hz 50 Noise Level ⁴ dB 24 Options SafeCell UV® System MC0-19UVS-PE Standard Multiple Inner Doors N/A CO2 Gas Pressure Regulator MC0-100L-PW Automatic CO2 Cylinder Changeover System MC0-56C-PW InCu-saFe® Shelf MC0-30ST-PW InCu-saFe® Half Tray System N/A Standard Roller Base Optional communication systems ⁹ Ethernet interface (LAN) N/A			V
Hz 50			
Noise Level ⁴ Options SafeCell UV® System MC0-19UVS-PE Standard Multiple Inner Doors N/A CO2 Gas Pressure Regulator Automatic CO2 Cylinder Changeover System MC0-5GC-PW InCu-saFe® Shelf MC0-30ST-PW InCu-saFe® Half Tray System N/A Stacking Kit Standard Roller Base MC0-5RB-PW Optional communication systems 51 Ethernet interface (LAN) N/A	,		
Options SafeCell UV® System MC0-19UVS-PE Standard Multiple Inner Doors N/A CO2 Gas Pressure Regulator Automatic CO2 Cylinder Changeover System MC0-5GC-PW InCu-saFe® Shelf MC0-30ST-PW InCu-saFe® Half Tray System N/A Stacking Kit Standard Roller Base MC0-5RB-PW Optional communication systems® Ethernet interface (LAN) MC0-19UVS-PE Standard MC0-10UL-PW MC0-5GC-PW MC0-30ST-PW MC0-5RB-PW Optional communication systems® N/A			
SafeCell UV® System Multiple Inner Doors N/A CO ₂ Gas Pressure Regulator Automatic CO ₂ Cylinder Changeover System MCO-30ST-PW InCu-saFe® Shelf MCO-30ST-PW InCu-saFe® Half Tray System N/A Stacking Kit Standard Roller Base MCO-5RB-PW Optional communication systems 51 Ethernet interface (LAN) MCO-19UVS-PE Standard MCO-100L-PW MCO-5GC-PW MCO-30ST-PW MCO-30ST-PW MCO-30ST-PW N/A		dB	24
Multiple Inner Doors N/A CO ₂ Gas Pressure Regulator Automatic CO ₂ Cylinder Changeover System MCO-56C-PW InCu-saFe® Shelf MCO-30ST-PW InCu-saFe® Half Tray System N/A Stacking Kit Standard Roller Base MCO-5RB-PW Optional communication systems N/A Stacking Kit N/A N/A	Options		
CO ₂ Gas Pressure Regulator MCO-100L-PW Automatic CO ₂ Cylinder Changeover System MCO-5GC-PW InCu-saFe® Shelf MCO-30ST-PW InCu-saFe® Half Tray System N/A Stacking Kit Standard Roller Base MCO-5RB-PW Optional communication systems® Ethernet interface (LAN) N/A	<u> </u>		
Automatic CO ₂ Cylinder Changeover System MCO-5GC-PW InCu-saFe® Shelf MCO-30ST-PW InCu-saFe® Half Tray System N/A Stacking Kit Standard Roller Base MCO-5RB-PW Optional communication systems ⁵ Ethernet interface (LAN) N/A	Multiple Inner Doors		
InCu-saFe® Shelf MCO-30ST-PW InCu-saFe® Half Tray System N/A Stacking Kit Standard Roller Base MCO-5RB-PW Optional communication systems 5 Ethernet interface (LAN) N/A	CO ₂ Gas Pressure Regulator		
InCu-saFe® Half Tray System N/A Stacking Kit Standard Roller Base MC0-5RB-PW Optional communication systems ⁵¹ Ethernet interface (LAN) N/A	Automatic CO ₂ Cylinder Changeover System		
Stacking Kit Standard Roller Base MCO-5RB-PW Optional communication systems 5 Ethernet interface (LAN) N/A	InCu-saFe® Shelf		
Roller Base MCO-5RB-PW Optional communication systems 51 Ethernet interface (LAN) N/A	InCu-saFe® Half Tray System		
Optional communication systems ⁵⁾ Ethernet interface (LAN) N/A	Stacking Kit		Standard
Ethernet interface (LAN) N/A	Roller Base		MCO-5RB-PW
	Optional communication systems 5)		
	Ethernet interface (LAN)		N/A
Digital interface (RS232C/RS485) MTR-480-PW	Digital interface (RS232C/RS485)		MTR-480-PW

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other



external projections $^{2\,\&\,3]}$ Ambient temperature 25°C, setting 37°C, CO $_2$ 5%, O $_2$ 5%, no load

⁴ Nominal value
MCO-5AC series can only be fitted with one communications interface