



MCO-18AC-PE

IncuSafe

CO₂ Incubators

170 L



The high-performance solution for mainstream applications

The **IncuSafe** MCO-18AC CO₂ Incubator offers a controlled and regulated environment and features all of the essential technologies that you would expect in an **IncuSafe** CO₂ Incubator. This design approach fulfills the needs within a broad range of mainstream applications.

Controlled & Regulated Environment

The Direct Heat and Air Jacket System delivers excellent temperature uniformity throughout the chamber whilst the TC sensor provides accurate control of CO₂ level.

Active Background Decontamination

The exclusive inCu-saFe germicidal interior and optional SafeCell UV lamp both function to actively prevent contamination within the incubator.

Monitoring & Control

The incubator's functions are managed by a fully integrated controller with a range of setpoints, alarms and programmable inputs.



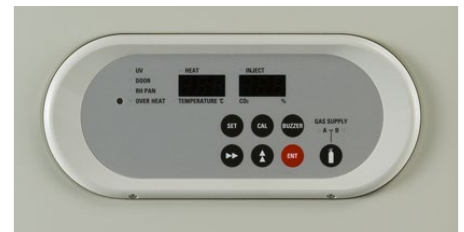
Regulated cell growth

This Incubator is ideal for long-term cultivation projects providing a regulated environment for successful cell growth, optimal results and reproducibility.



Efficient Workflows

In situ contamination prevention in the incubator enhances protection and helps save time, without affecting cell cultures.



Ease of Use

Control and confirmation of internal conditions, such as temperature and CO₂ level, are easy with the simple to use controller.

IncuSafe CO₂ 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 CO₂ control system, with TC sensor, delivers reliable and repeatable CO₂ control. The CO₂ setpoint is adjustable from 0 to 20%. A CO₂ sample port is integrated into the inner door.

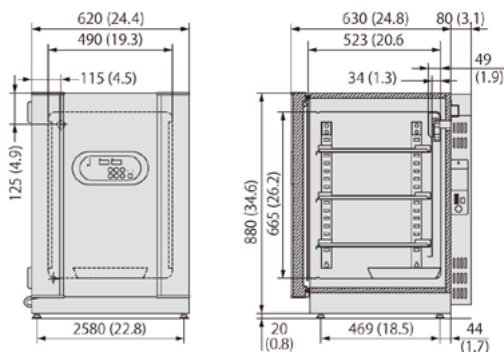
Active Background Decontamination

The exclusive 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.

Consistent Humidity

Humidification is achieved through the combined action of forced-air circulation and a reliable, natural, evaporation method. An optical water level sensor* warns when the water level drops in the humidifying pan.

*Supplied with the optional UV lamp.



Model Number	MCO-18AC-PE	MCO-18ACUV-PE
External Dimensions (W x D x H) ¹⁾	mm	620 x 710 x 900
Internal Dimensions (W x D x H)	mm	490 x 523 x 665
Volume	liters	170
Net Weight	kg	92
Performance		
Temperature Control Range & Fluctuation	°C	AT +5 - +50, ±0.1
Temperature Uniformity ²⁾	°C	±0.25
CO ₂ Control Range & Fluctuation ³⁾	%	0 - 20, ±0.15
Humidity Level & Fluctuation	%RH	95, ±5
Control		
Temperature Sensor		Thermistor
CO ₂ Sensor		TC
Display		LED
Construction		
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
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	450 x 450 x 12
Max. Load per Shelf	kg	7
Max. Shelf Capacity	qty	15
Access Port	qty	1
Access Port Position		Rear Upper Left
Access Port Diameter	∅ mm	30
Alarms (R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm)		
Power Failure		R
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 ⁴⁾	dB	24
Options		
SafeCell UV [®] System	MCO-18UVS3-PE ⁴⁾	Standard
Multiple Inner Doors		MCO-18ID-PW
CO ₂ Gas Pressure Regulator		MCO-100L-PW
Automatic CO ₂ Cylinder Changeover System		MCO-216C-PW
InCu-saFe [®] Shelf		MCO-47ST-PW
InCu-saFe [®] Half Tray System		MCO-25ST-PW
Stacking Kit		Standard
Roller Base		MCO-170RB-PW
Optional communication systems⁵⁾		
Ethernet interface (LAN)		MTR-L03-PW
Digital interface (RS232C/RS485)		MTR-480-PW

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

²⁾ Ambient temperature 25°C, setting 37°C, CO₂ 5%, no load

⁴⁾ Includes humidifying pan cover and water level sensor

⁵⁾ Nominal value

³⁾ MCO-18AC series can only be fitted with one communications interface.

*If stacking two incubators, make sure the double-stacking dedicated securing hardware and spacer are used



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Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

