



MCO-18AC-PE

## IncuSafe

CO<sub>2</sub> Incubators

170 L



### The high-performance solution for mainstream applications

The **IncuSafe** MCO-18AC CO<sub>2</sub> Incubator offers a controlled and regulated environment and features all of the essential technologies that you would expect in an **IncuSafe** CO<sub>2</sub> Incubator. This design approach fulfills the needs within a broad range of mainstream applications.

#### Controlled & Regulated Environment

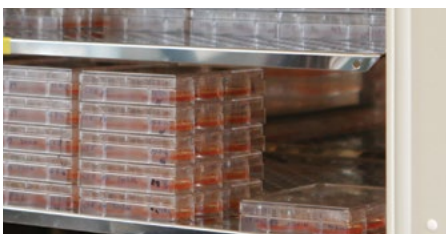
The Direct Heat and Air Jacket System delivers excellent temperature uniformity throughout the chamber whilst the TC sensor provides accurate control of CO<sub>2</sub> level.

#### 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.



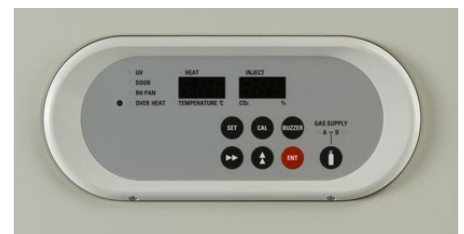
#### Regulated cell growth

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 CO<sub>2</sub> level, are easy with the simple to use controller.

# IncuSafe CO<sub>2</sub> 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 CO<sub>2</sub> Sensor

The Incubator's CO<sub>2</sub> control system, with TC sensor, delivers reliable and repeatable CO<sub>2</sub> control. The CO<sub>2</sub> setpoint is adjustable from 0 to 20%. A CO<sub>2</sub> sample port is integrated into the inner door.

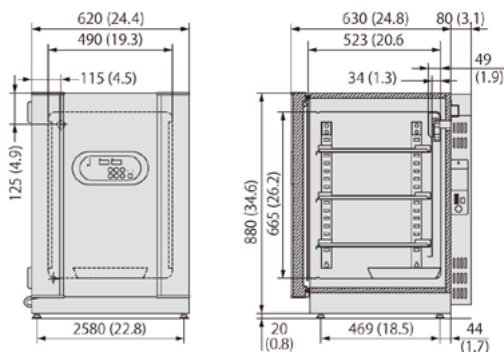
## Active Background Decontamination

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) <sup>1)</sup>	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
<b>Performance</b>		
Temperature Control Range & Fluctuation	°C	AT +5 - +50, ±0.1
Temperature Uniformity <sup>2)</sup>	°C	±0.25
CO <sub>2</sub> Control Range & Fluctuation <sup>3)</sup>	%	0 - 20, ±0.15
Humidity Level & Fluctuation	%RH	95, ±5
<b>Control</b>		
Temperature Sensor		Thermistor
CO <sub>2</sub> Sensor		TC
Display		LED
<b>Construction</b>		
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
<b>Alarms</b> (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 <sub>2</sub> Setting		V-B-R
Door open		V
<b>Electrical and Noise Level</b>		
Power Supply	V	230
Frequency	Hz	50
Noise Level <sup>4)</sup>	dB	24
<b>Options</b>		
SafeCell UV <sup>®</sup> System	MCO-18UVS3-PE <sup>4)</sup>	Standard
Multiple Inner Doors		MCO-18ID-PW
CO <sub>2</sub> Gas Pressure Regulator		MCO-100L-PW
Automatic CO <sub>2</sub> Cylinder Changeover System		MCO-216C-PW
InCu-saFe <sup>®</sup> Shelf		MCO-47ST-PW
InCu-saFe <sup>®</sup> Half Tray System		MCO-25ST-PW
Stacking Kit		Standard
Roller Base		MCO-170RB-PW
<b>Optional communication systems<sup>5)</sup></b>		
Ethernet interface (LAN)		MTR-L03-PW
Digital interface (RS232C/RS485)		MTR-480-PW

<sup>1)</sup> Exterior dimensions of main cabinet only, excluding handle and other external projections

<sup>2)</sup> Ambient temperature 25°C, setting 37°C, CO<sub>2</sub> 5%, no load

<sup>4)</sup> Includes humidifying pan cover and water level sensor

<sup>5)</sup> Nominal value

<sup>4)</sup> 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