

Personal Series Compact CO₂ Incubator

MCO-5AC

- Space Saving
- Triple Stackable
- Compact Design

Temperature
Ambient temp.
+5°C to 50°C

Interior volume
49L
1.7 cu. ft.

CO₂ level
0 to 20.0%



Copper-enriched
Stainless Steel Interior



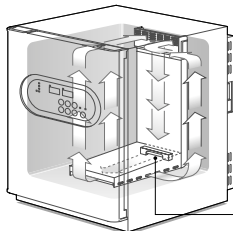
Ultraviolet Preventive
Contamination Control
(Optional)

Patient Specific, Space Saving, Triple Stackable, Compact Design

When arrayed in triple stackable configurations (pictured below), this unit meets GLP (Good Laboratory Practice) requirements by helping to avoid patient-to-patient cross contamination in individualized patient-specific clinical incubation applications, such as in vitro fertilization and regenerative medicine techniques.

Preventive Contamination Control

InCu saFe[®] copper-enriched stainless steel chamber, shelves, and air plenum inhibit surface contamination growth continuously. Airborne and water pan contaminants can also be prevented and continuously controlled by use of a patented SafeCell UV[™], ultraviolet decontamination method (optional). The ozone-free UV light is shielded away from the cell culture area allowing for UV use while cultures remain in the incubation chamber.

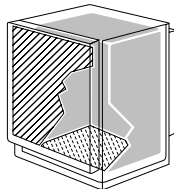


UV lamp (option)

Airflow and water pan sterilization using a UV system (option)

Improved Temperature Stability with DHA System

Three independently controlled heaters plus SANYO's exclusive and patented air jacket construction provide high-precision temperature control, uniformity, and quick recovery after door openings.



- The main heater provides precise temperature control.
- The variable bottom heater warms distilled water in the water pan and allows for adjustment of the chamber's humidity level.
- The variable outer door heater prevents condensation on the inner glass door and helps facilitate quick temperature recovery after door openings.

Field-reversible Door

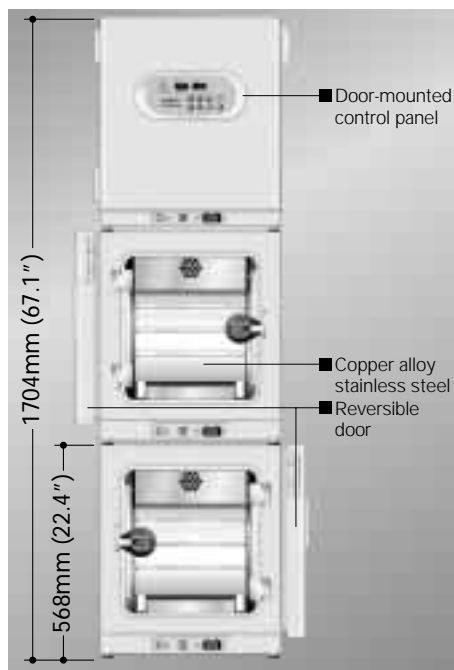
The field reversible door can be set up for right-swing or left-swing door openings, allowing for multiple configurations during laboratory installation. A special door handle allows for easier door grab and opening in triple stacked configurations.

Automatic CO₂ Cylinder Switchover System (option)

This system automatically switches from the primary to secondary gas cylinder when a CO₂ gas level drop in the chamber is detected. The in-use gas cylinder is confirmed on the control panel.

Ergonomic Design

Even in a triple-stack configuration, the units are space-saving and low-profile, allowing for the most efficient use of laboratory space and also user-friendly access to the door-mounted control display panel.



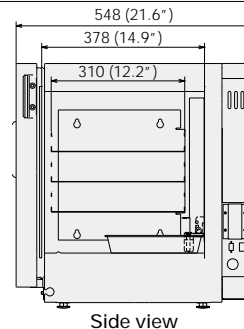
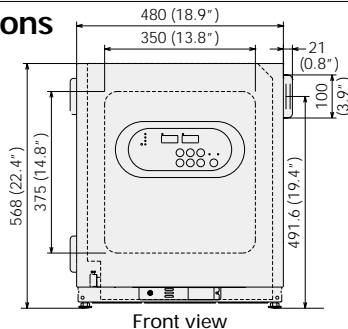
Specifications

Exterior dimensions (W x D x H)	480 x 548 x 568 (mm) 18.9 x 21.6 x 22.4 (inch)	
Interior dimensions (W x D x H)	350 x 378 x 375 (mm) 13.8 x 14.9 x 14.8 (inch)	
Interior volume	49L / 1.7 cu.ft.	
Net weight	49kg / 108lbs.	
Temperature	Heating method	Direct Heat & Air Jacket (DHA)
	Temp. control system	Microprocessor PID, thermistor sensor
	Temp. range	5°C above ambient temperature to +50°C (Ambient temp.: +5°C to 35°C)
CO ₂	Temp. controllability	±0.1°C*
	CO ₂ control system	On-Off control
	CO ₂ sensor	TC sensor (direct chamber detection)
	CO ₂ range	0 to 20%
Humidity	CO ₂ controllability	±0.15%*
	Humidifying method	Natural evaporation with water level sensor
	Chamber humidity	95±5%RH
Shelves	Shelf dimensions (W x D x H)	310 x 310 x 10 (mm) 12.2 x 12.2 x 0.4 (inch)
	Shelf material	Copper-enriched Stainless Steel
	Maximum load	4kg/8.8 lbs per shelf
Contamination control	Shelves	Copper-enriched Stainless Steel 3 Standard, 6 Max.
	Interior surface	Copper-enriched Stainless Steel
Access port	UV lamp (ozone-free)	UV system kit (option)
Access port		30mm diameter (rear)
Air filter		0.3µm, Efficiency: 99.97% (for CO ₂)
Alarm system		High/low temperature, CO ₂ level, door, independent overheat protection
Remote alarm contacts		30V DC, 2A allowable
Options		CO ₂ pressure regulator (MCO-100L) inCu saFe shelf (MCO-30ST) Roller base (MCO-5RB) UV system kit (MCO-18UVS2) Automatic CO ₂ cylinder switchover system (MCO-5GC)

*Conditions

Ambient temperature: 25°C, Temperature setting: 37°C, CO₂ level setting: 5%, no load

Dimensions



Unit: mm (inch)

• Specifications subject to change without notice.

Distributed by:

ISO 9001 & 14001-certified

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