

Think GAIA
For Life and the Earth

SANYO

Large Capacity
Reach-in CO₂ Incubator

MCO-80IC



MCO-80IC

CO₂ level

0 to 20.0%

Temperature
(Ambient temp.)

+5 to 50°C

Interior volume

851L/30.1cu.ft.

Reach-in design with large size of
851L is ideal for large-scale cell
culture

- Large capacity cabinet allows flexibility in usage.
- Full view, double paned glass door allows easy observation of cultured samples.
- Superior CO₂ and temperature control
- Continuous contamination control with inCu saFe® interior
- Optional SafeCell™ UV sterilization system for humidity reservoir
- Unique door heater system prevents condensation.



Copper alloy stainless
steel interior



Infrared CO₂ sensor



UV contamination
prevention (option)

MCO-80IC

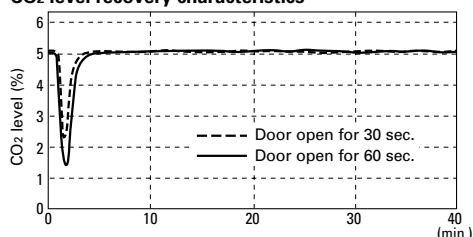
Reach-in design with big capacity

Large, 851L capacity is ideal for large-scale cell culture. This large-capacity CO₂ incubator fulfills ever-increasing research demands for culturing. Various cultivation equipment, such as roller bottles, etc., can be stored inside, and the reach-in design makes it easy to put in and remove items. Full-face glass door enables check of cultured samples and the big door latch is easy to use.

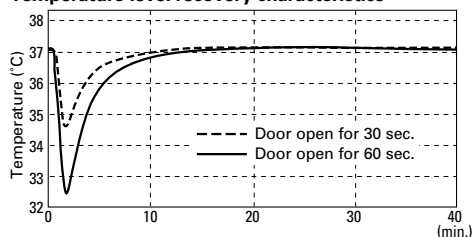
Faster CO₂ Level Recovery

Fast recovery of the CO₂ level is due to the effective combination of an infrared CO₂ sensor and PID (Proportional, Integrated and Differential) control. This incubator offers a long-awaited performance level with a more stable CO₂ environment to reliably function in heavy usage situations that require frequent door openings.

CO₂ level recovery characteristics

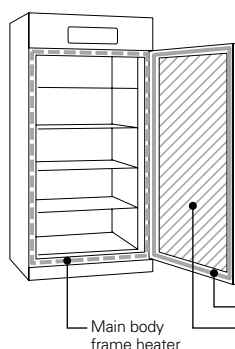


Temperature level recovery characteristics



Preventive Contamination Control

InCu saFe® interior chamber inhibits bacteria growth continuously. An automatic ultraviolet lamp (option) can also eliminate contaminants in humidifying water without affecting cell cultures. The powerful measure result in complete contamination control.



Prevents Condensation

Heating elements around the door frame, within the glass door and gasket prevent condensation.

Easy maintenance

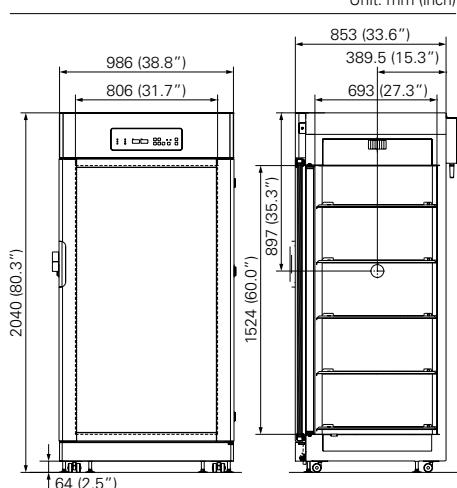
Maintenance of the humidifier pan is extremely easy. The pan is integrated into the chamber, and has a cover that sets on top instead of being closed with screws.

Easy to use Control panel

Large graphic panel and big keypad for good visibility and comfortable operation.



Dimensions



Specifications

Exterior dimensions (W x D x H)	986 x 853 x 2040 (mm) 38.8 x 33.6 x 80.3 (inches)	
Interior dimensions (W x D x H)	806 x 693 x 1524 (mm) 31.7 x 27.3 x 60.0 (inches)	
Interior volume	851L / 30.1 cu.ft.	
Net weight	275 kg / 606 lbs	
Temperature	Heating method	Heater with fan air circulation, Cross shelf laminar air flow
	Temp. control system	Microprocessor PID
	Temp. range	5°C above ambient temp. to +50°C
	Temp. uniformity	±0.5°C*
CO ₂	Temp. controllability	±0.1°C*
	CO ₂ control system	Microprocessor PID
	CO ₂ sensor	Infrared
	CO ₂ range	0 to 20%
Humidity	CO ₂ controllability	±0.15%*
	Humidifying system	Normal mode: Natural evaporation with humidifying water High humidity mode: heated evaporation with humidifying water
	Inner humidity	Normal mode: Over 80%RH High humidity mode: Over 90%RH
Shelves	Shelf dimensions (W x D x H)	776 x 659 x 10 (mm) 30.6 x 25.9 x 0.4 (inch)
	Shelf material	Copper alloy stainless steel
	Maximum load	30 kg/66.1 lbs. per shelf
Contamination control	Shelves	5 (standard)
	Interior surface	Copper enriched stainless steel (except humidifying pan)
Access port	UV lamp (ozone-free)	UV system kit (option)
	Access port	40mm diameter Two location each on both side
Alarm system	Alarm system	High/low temperature, High/Low CO ₂ , Low water, Independent overheat protection, Door ajar, Remote alarm
	Remote alarm contacts	30V DC, 2A N.O., N.C.
Options		Automatic CO ₂ cylinder changeover system (MCO-80GC), Extra tray (MCO-80ST), Roller bottle mounting kit (MCO-80RBS), Small doors mounting kit (MCO-80ID), UV system kit (MCO-80UVS), Automated water supply system kit (MCO-80AS), mA Analog output (MCO-420MA), SANYO DAQ (Data Acquisition) System (MTR-480, MTR-2000)

* Conditions

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

Caution:

For using the equipment at altitudes higher than 1,000m, the standard outer glass door must be replaced with a specific glass door. Please consult your SANYO sales representative or agent for more information and to arrange airfreighting if required.

Use of equipment in the chamber will require AC power from an external outlet.

SANYO guarantees the product under certain warranty conditions. SANYO in no way shall be responsible for any loss of content or damage to content.

• Appearance and specifications are subject to change without notice.

SANYO Electric Co., Ltd., Biomedical Division, Gunma is certified for:

Quality management system: ISO9001 / Medical devices quality management system: ISO13485 / Environmental management system: ISO14001

RoHS (European Restriction of Hazardous Substances directives) compliant

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