

Professional CO₂ Incubator

SANYO

NEW Product information

MCO-18AC

CO₂ level

0 to 20.0%

Temperature
(Ambient temp.)

+5 to 50°C

Interior volume

170L/6.0cu.ft.



MCO-18AC

Professional CO₂ incubator with preventive contamination control

- Continuous contamination control with inCu saFe® interior and SafeCell™ UV (Option) technologies
- Direct Heat Air Jacket (DHA) heating system provides accurate temperature control.
- Precise temperature and CO₂ control
- Stackable design for efficient use of available laboratory space
- Reversible door available for easy installation



MCO-18AC

Features



inCu saFe® Construction for Germicidal Protection

SANYO offers exclusive use of inCu saFe® copper-enriched stainless steel alloy interior surfaces within a technical design created to eliminate contamination sources and to mitigate the effect of airborne contaminants introduced through normal use.

Chart summarizes test results with four strains of mycoplasma. Results demonstrate how SANYO inCu saFe® copper enriched stainless steel alloy offers germicidal properties of conventional C1100 copper while maintaining both corrosion-proof and discoloration-resistant properties of conventional stainless steel 304.

Mycoplasma Strain	Positive Control	Conventional Stainless Steel 304	SANYO inCu saFe®	Conventional Copper C1100
Mycoplasma fermentans PG18	YES	YES	NO	NO
Mycoplasma orale CH19299				
Mycoplasma arginini G230				
Mycoplasma hominis PG21				

"YES" means that mycoplasma strains grew on the material.
"NO" means that no mycoplasma strain grew on the material.



Accurate Temperature and Humidity Control

The patented Direct Heat and Air Jacket™ conditioning system precisely regulates temperature through three independent heating zones under microprocessor PID control. Uniform temperatures are further enhanced by gentle fan circulation.

Direct Heat and Air Jacket™ Heating System

- The main heater provides precise temperature control.
- The bottom heater warms the distilled water and controls chamber humidity.
- The outer door heater prevents condensation on the inner door and facilitates quick temperature recovery after door openings.

Humidification is achieved by reliable natural evaporation and forced-air circulation and protected by an automatic optical sensor that advises of low water level (option).

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.

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

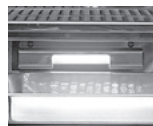
Quality management system: ISO9001 / Medical devices quality management system: ISO13485 / Environmental management system: ISO14001
RoHS (European Restriction of Hazardous Substances directives) compliant

Distributed by:



SafeCell™ UV sterilization system (option)

The unique air duct system and ultraviolet light sterilization lamp maintain contamination-free air conditions in the chamber and improve temperature recovery characteristics. The circulating chamber air and water in the humidifying pan are sterilized by ultraviolet light, preventing the spread of bacteria and molds.



Stackability

To help ensure effective use of limited space, these incubators are designed to be stacked in a way that suits your work plans. Simply by using the parts provided, you can create a twin-chamber setup.

Ease of Use

User-friendly door-mounted control panel is easy to use and access.

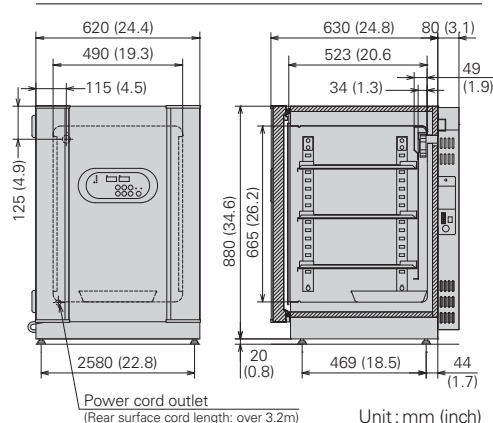


Full-rounded corners in the interior chamber are easy to clean.

Automatic CO2 Cylinder Changeover 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.

Dimensions



Specifications

Model	MCO-18AC
Exterior dimensions (W x D x H)	620 x 710 x 900 (mm) 24.4 x 27.9 x 35.4 (inch)
Interior dimensions (W x D x H)	490 x 523 x 665 (mm) 16.5 x 20.6 x 26.2 (inch)
Interior volume	170L / 6.0 cu.ft.
Net weight	92 kg / 203lbs.
Heating method	Direct Heat & Air Jacket (DHA)
Temp. control system	Microprocessor PID, thermistor sensor
Temp. range	5°C above ambient temperature to +50°C (in 5°C to 35°C ambient)
Temp. controllability	±0.1°C
CO2 control system	On-Off control
CO2 sensor	TC sensor (direct chamber detection)
CO2 range	0 to 20%
CO2 controllability	±0.15%
Humidifying method	Natural evaporation with humidifying pan
Chamber humidity	95±5%RH
Shelf dimensions (W x D x H)	450 x 450 x 12 (mm) 17.7 x 17.7 x 0.5 (inch)
Shelf material	Copper-enriched Stainless Steel
Maximum load	7kg/15.4 lbs per shelf
Shelves	3 Standard
Interior surface	Copper-enriched Stainless Steel
UV lamp (ozone-free)	UV system kit (option)
Access port	30mm diameter (rear)
Air filter	0.3µm, Efficiency: more than 99.97 %
Alarm system	High/low temperature, CO2 level, door ajar, independent overheat protection, UV lamp failure
Remote alarm contacts	30V DC, 2A allowable

Options

- CO2 cylinder regulator (MCO-100L)
- Extra shelf and Brackets (MCO-47ST)
- Half trays (MCO-25ST)
- Roller base (MCO-18RB)
- UV system kit including humidifying pan cover and water level sensor (MCO-18UVS3)
- UV lamp replacement kit (MCO-20UV)
- Automatic CO2 cylinder changeover system (MCO-21GC)
- Data Acquisition system (MTR-5000 / MTR-L03 or MTR-480)

• Appearance and specifications are subject to change without notice.
Caution: SANYO guarantees the product under certain warranty conditions. SANYO in no way shall be responsible for any loss of content or damage to content.



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