Think GAIA
For Life and the Earth

SANYO

Direct Heat & Air Jacket™ CO_2 Incubator

MCO-17AC
MCO-34AC

SANYO laboratory CO_2 incubators are designed for a wide range of applications in biomedical, pharmaceutical and clinical laboratories.


control panel

inCu saFe Interior
SANYO is known for innovative and exclusive contamination control features such as inCu saFe™, a copper enriched stainless steel alloy with inherent germicidal protection against contaminants. InCu saFe™ expresses a natural germicidal attribute to inhibit the growth of mold, fungi, mycoplasma and bacteria.

Direct Heat and Air Jacket Temperature™ Control
Patented Direct Heat and Air Jacket™ temperature control ensures for accurate and uniform chamber temperature and CO_2 levels. The MCO-17AC/34AC is microprocessor controlled to maintain temperature uniformity and optimum humidity levels.

CO_2 Control
Available with high precision, reliable thermal conductivity (T.C.) CO_2 sensor.

Anti Contamination Design Benefits
- Circulation blower and CO_2 injection cuts off when door is opened, keeping contaminated outside air from being drawn into the chamber.
- Full rounded corners in the interior chamber are constructed of electro-polished copper-alloy stainless steel. Copper-alloy stainless steel plenums, shelves and brackets extend contamination control to the chamber interior. All are easily removed for cleaning.

Control, Alarm and Monitoring
A range of setpoint, alarm and programmable inputs are established through the use of an intuitive keypad. Extra large digital displays are easy to read.
- Tactile feedback, touch pad and entry keys simplify operation
- Standard parameters are factory-set for quick start-up, and all parameters can be changed as required.
- A remote alarm terminal mounted at the rear of the cabinet can be connected to an external remote alarm system.

Incubation
My life. My work. My choice.

Incubation

www.sanyobiomedical.com

Specifications

Model		MCO-17AC/MCO-34AC (2 x MCO-17AC + stacking kit)
Exterior dimensions (W x D x H)		24.4" x 24.0" x 35.4" (619.7 x 609.6 x 899.2mm)
Interior dimensions (W x D x H)		19.2" x 19.8" x 26.2" (487.7 x 502.9 x 665.5mm)
Effective capacity		5.8 cu.ft.
Net weight		185lbs / 84kgs
Shelves		Standard 5, Max. 7
Exterior finish		Baked-on acrylic finish on galvanized stainless steel
Interior finish		Copper alloy stainless steel
Door		Baked-on acrylic finish on galvanzied steel with door heater
Inner door		Tempered glass
Insulation		Foam in place polyurethane (non CFC)
Air circulation system		Gentle air circulation, upward air flow
Temperature	Heating method	Direct Heat & Air (DHA) jacket system
	Temperature Control	Microprocessor P.I.D. control
	Temperature range	Ambient temperature +5°C ~ 50°C
	Temperature uniformity	± 0.2°C (setting temperature: 37°C, ambient temperature: 20°C)
Humidity	Chamber humidity	95% ± 5% RH (at: 20°C, 60% RH)
	Humidifying system	Natural evaporation with water in humidity pan
CO_2	CO_2 control	Microprocessor control (sensor: Thermal Conductivity)
	CO_2 range	0 - 20%
	CO_2 variation	± 0.15%
	CO_2 inlet pressure	5 - 7 psi
Power source		**Voltage:** 115V, 60hz, **Amps:** 3.6A, **Plug/Breaker:** NEMA 5-15P/15A
Power consumption		405W
Alarm system		• Audible and visual alarm • Temperature, CO_2, Door alarm • Independent overheat protection circuit sensor • Remote alarm contacts

Optional Accessories:

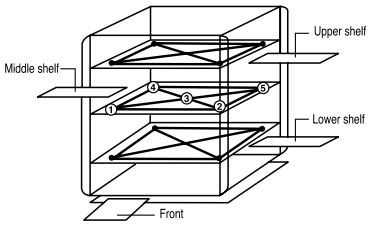
- Rollerbase, MCO-18RB
- CO_2 Regulator, MCO-100L
- Stacking Kit, MCO-18PS

(required to create MCO-34AC)

GREEN product

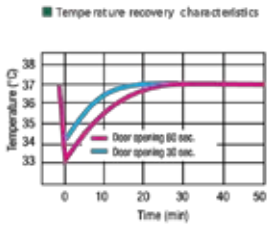
SANYO is committed to developing green technologies that provide energy efficiency resulting in lower operational costs with less impact on the environment.

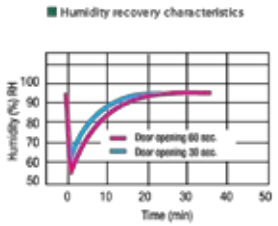
Temperature Uniformity

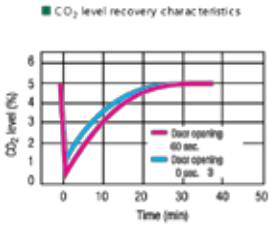


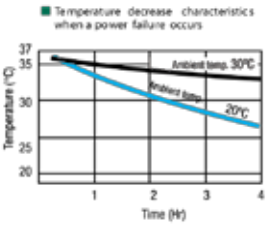
Measurement position	①	②	③	④	⑤
Shelf position					
Upper shelf	+0.03	+0.14	0.00	-0.15	+0.05
Middle shelf			0.00		
Lower shelf	-0.15	-0.13	-0.18	-0.13	+0.05

Condition: Set temperature 37° C, Ambient temp. 20°C, Ambient humidity 45%, CO_2 level setting 5,0%, Water humidity pan 2,0 litres

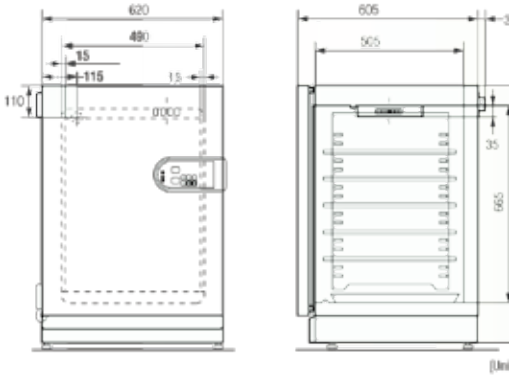








Dimensions



SANYO Electric Co.,Ltd., Biomedical Division, Gumma is certified for Quality management system:ISO9001/ Medical devices Quality management system:ISO13485/Environmental management system:ISO14001

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