CO2 Incubator - Cell Culture Incubator - IR CO2 Sensor - 0-20% CO2 - 26 to 240 L

Model **MSICB-CO2-50HSWISS, MSICB-CO2-80HSWISS, MSICB-CO2-150HSWISS, MSICB-CO2-190HSWISS, MSICB-CO2-240HSWISS, MSICB-CO2-30WSWISS, MSICB-CO2-80WSWISS, MSICB-CO2-150WSWISS** | Brand **Master Science**





The Master Science CO2 Incubator provides a stable, humid, CO2-controlled environment for culturing cells, tissues and bacteria in medical, biological, chemical and agricultural research. An infrared CO2 sensor responds quickly and is not affected by changes in chamber temperature or humidity, so CO2 returns to 5 % within 3 minutes after a 30-second door opening.

KEY HIGHLIGHTS

- Fast CO2 recovery
- Lower contamination risk
- Clean gas supply
- Easy cleaning
- Space saving

AT A GLANCE

Room temperature +5 to 55 °C
TEMPERATURE RANGE

0 to 20 %, 0.1 % resolution
CO2 RANGE

450 to 950 W depending on model
POWER CONSUMPTION

±0.3 °C
TEMPERATURE UNIFORMITY

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Overview

Two heating designs are offered: air-jacketed H models from 50 to 240 L and water-jacketed W models, with PID control on both.

Key Benefits

Fast CO2 recovery
the Master Science CO2 Incubator uses an IR sensor, ideal when the door is opened often.

Lower contamination risk
heated door prevents condensation on the glass.

Clean gas supply
99.99 % microbial filter on the CO2 inlet.

Easy cleaning
rounded stainless chamber and removable brackets.

Space saving
units can be stacked two high.

For culture without CO2, see the Master Science laboratory instrument range.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSICB-CO2-50HSWISS, MSICB-CO2-80HSWISS, MSICB-CO2-150HSWISS, MSICB-CO2-190HSWISS, MSICB-CO2-240HSWISS, MSICB-CO2-30WSWISS, MSICB-CO2-80WSWISS, MSICB-CO2-150WSWISS
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Capacity	**50, 80, 150, 190, 240 L (air jacket); 26, 80, 150 L (water jacket)**
Heating	Air-jacketed (H) or water-jacketed (W), PID control
Circulation	Forced convection, automatic fan speed
Temperature Range	**Room temperature +5 to 55 °C**
Temperature Fluctuation	±0.2 °C (H); ±0.1 °C (W)
Temperature Uniformity	±0.3 °C
Temperature Recovery	≤ 8 min to 37 °C after 30 s door opening
CO2 Range	**0 to 20 %, 0.1 % resolution**
CO2 Sensor	Infrared
CO2 Recovery	≤ 3 min to 5 % after 30 s door opening
CO2 Inlet Filter	99.99 % at ≥ 0.3 µm
Sterilisation	UV
Chamber	304 stainless steel, rounded corners, removable shelf brackets
Shelves (standard / max)	2/4 (50, 80 L); 3/6 (150 L and larger)
Alarms	Low, high and over-temperature; door open too long; independent temperature limiter
Test Port	Ø25 mm (optional)
Humidity	≥ 90 % RH, natural evaporation
Display	LCD microcomputer controller

POWER	
Power Supply	AC 220 or 110 V, 50/60 Hz
Power Consumption	450 to 950 W depending on model

HOW THE MASTER SCIENCE CO2 INCUBATOR PROTECTS CULTURES	
Slow CO2 recovery after door opening	IR sensor and quick recovery.
Condensation causing contamination	heated door.
Dirty CO2 gas lines	inlet microbial filter.
Temperature runaway	independent limit alarm.

Applications

The Master Science CO2 Incubator is used for
Biological cell culture Tissue culture Bacterial culture Medical research Chemistry and agricultural science

CO2 Control

- Infrared CO2 sensor
- 0 to 20 % range
- Filtered gas inlet

Temperature

- Air or water jacket
- PID control, ±0.3 °C uniformity
- Independent over-temperature limiter

Hygiene

- UV sterilisation
- Heated door against condensation
- 304 stainless steel chamber

Optional Accessories

- HEPA high-efficiency filter
- Humidity display system
- Built-in printer
- Ø25 mm test port