CO2 Shaking Incubator 310 L, Three Stackable Layers, 20-350 rpm, CO2 0-20%, 7 in Touch Screen

Model **MSICB-CO2-2S202SWISS** | Brand **Master Science**





The Master Science Three-Layer CO2 Shaking Incubator combines CO2 control with orbital shaking for suspension cell cultures. Three stacked units each have their own temperature, speed and time settings, so one tower can run three different experiments side by side in a small footprint.

KEY HIGHLIGHTS

- Three experiments at once
- Gentle on cells
- Full traceability
- Easy loading and cleaning

AT A GLANCE

Ambient –20°C to 65°C TEMPERATURE RANGE	**0; 20-350 rpm (top layer 20-300 rpm)** SPEED RANGE
310 L CAPACITY	**1800 W** POWER CONSUMPTION

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

support@themsci.com
www.themsci.com

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Overview

A servo motor drives the platform from 20 to 350 rpm with ±1 rpm accuracy, starting and stopping gently to protect shear-sensitive cells. CO2 is held between 0 and 20%, and temperature runs from 20°C below ambient up to 65°C with ±0.1°C stability. Each layer has a 7 inch colour touch screen, live temperature and speed curves, and USB data logging.

> For static CO2 culture, see our CO2 incubator 40-240 L with IR sensor alongside the Master Science Three-Layer CO2 Shaking Incubator.

> Running several shaking cultures in separate machines wastes space and time. The Master Science Three-Layer CO2 Shaking Incubator helps with:

Overview

- Servo motor, ±1 rpm accuracy
- 20-350 rpm with multi-step programs
- Slow acceleration and deceleration
- Pull-out, lockable platform

Key Benefits

Three experiments at once
Each layer of the Master Science Three-Layer CO2 Shaking Incubator runs its own temperature, speed and time.

Gentle on cells
Slow start and stop reduce shear on suspension cultures.

Full traceability
Automatic USB logging with charts lets you review every run.

Easy loading and cleaning
Pull-out platforms and a rinseable chamber floor save time.

Technical Specifications

GENERAL

General	Specifications of the Master Science Three-Layer CO2 Shaking Incubator:
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Model Number	MSICB-CO2-2S202SWISS
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Model	MSICB-CO2-2S202SWISS
SKU	MSICB-CO2-2S202SWISS
Capacity	**310 L**
Circulation	Forced air convection
Drive mode	Multidimensional drive, servo motor
Shake mode	Orbital (convolution)
Orbit diameter	Ø50 mm (Ø26 or Ø35 mm on request)
Speed range	**0; 20-350 rpm (top layer 20-300 rpm)**
Speed resolution	±1 rpm
Platform	905 × 505 mm
CO2 range	**0-20.0%**
CO2 resolution	±0.1% (at 5%)
Temperature range	**Ambient −20°C to 65°C**
Temperature fluctuation	≤0.1°C at 37°C
Temperature resolution	0.1°C
Uniformity	±0.6°C at 37°C
General	Flask clamp max. capacity (per unit): 250 ml ×53, 500 ml ×35, 1000 ml ×20 or 2000 ml ×11
Sticky mat capacity (per unit)	**250 ml ×46, 500 ml ×33, 1000 ml ×18 or 2000 ml ×11**
Controller	PID
Timer	0-999.9 h
Safety	Self-diagnosis, temperature runaway and fault alarms, door-open stop

DIMENSIONS & WEIGHT

External dimensions (W×D×H)	1420 × 820 × 630 mm per unit
Net / gross weight	260 / 296 kg

DISPLAY & DATA	
Display	7 inch touch screen
Data	USB recording and download

POWER	
Power supply	AC 220 V ±10%, 50 Hz
Power consumption	1800 W

CULTURE PROBLEMS THE MASTER SCIENCE THREE-LAYER CO2 SHAKING INCUBATOR SOLVES	
Limited lab space	Three stacked layers in one footprint.
One condition per machine	Each layer is controlled independently.
Cell damage from abrupt starts	Soft start and stop protect shear-sensitive cells.
Missing run records	Automatic USB logging keeps a full history.

Applications

The Master Science Three-Layer CO2 Shaking Incubator is used for: Suspension mammalian cell culture CHO and HEK cell expansion for bioproduction Insect cell culture Microbial culture under controlled CO2 Process development with parallel conditions

Climate control

- CO2 0-20%
- Ambient –20°C to 65°C with automatic defrost
- Air duct design for uniform temperature
- Audible and visual deviation alarms

Control and data

- 7 inch colour touch screen per layer
- Real-time and historical curves
- USB data recording and export
- Parameter lock and power-failure recovery
- Door-open safety stop

Standard Accessories Included

- Three-layer CO2 shaking incubator
- 500 ml flask clamps ×33 per unit

Optional Accessories

- Remote Wi-Fi operation by mobile phone
- Ø26 or Ø35 mm orbit
- Flask clamps for other volumes
- Sticky mat