Cooling Biochemical Incubator 81-397 L, -10 to 65°C, PID Control, BOD Incubator with Compressor

Model MSICB-B80LSWISS,MSICB-B150LSWISS,MSICB-B200LSWISS,MSICB-B250LSWISS,MSICB-B300LSWISS,MSICB-B400LSWISS |
Brand Master Science





The Master Science Cooling Biochemical Incubator has a built-in refrigeration compressor, so it can hold temperatures below room temperature as well as above it. The range runs from –10°C to 65°C, which covers BOD testing at 20°C, cool storage of cultures and normal 37°C incubation.

KEY HIGHLIGHTS

- Below and above ambient
- Ideal for BOD tests
- Picks up after power cuts
- Easy to load and clean

AT A GLANCE

–10 to 65°C TEMPERATURE RANGE	**81 / 160 / 202 / 251 / 304 / 397 L** CAPACITY
0.1°C DISPLAY ACCURACY	**Fan circulation evens out the chamber.** UNEVEN TEMPERATURE

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

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Overview

A fan creates gentle air circulation in the SUS304 stainless steel chamber, and a microcomputer PID controller keeps the setpoint with ±0.1°C control accuracy. The timer runs continuously or from 0 to 9999 minutes, settings are kept after a power cut, and an RS485 port allows data connection. Six sizes from 81 to 397 litres are available.

For CO2-controlled culture, see our CO2 incubator 40-240 L to work alongside the Master Science Cooling Biochemical Incubator.

Heating-only incubators cannot hold setpoints near or below room temperature. The Master Science Cooling Biochemical Incubator fixes that and more:

Key Benefits

Below and above ambient
The compressor in the Master Science Cooling Biochemical Incubator allows work from –10°C up to 65°C.

Ideal for BOD tests
Hold 20°C steadily regardless of room temperature.

Picks up after power cuts
Parameter memory restarts the program automatically.

Easy to load and clean
Pull-out adjustable shelves and a rounded SUS304 chamber.

Technical Specifications

GENERAL	
General	Specifications of the Master Science Cooling Biochemical Incubator range:
Brand	Master Science
Model Number	MSICB-B80LSWISS,MSICB-B150LSWISS,MSICB-B200LSWISS,MSICB-B250LSWISS,MSICB-B300LSWISS,MSICB-B400LSWISS
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Capacity	**81 / 160 / 202 / 251 / 304 / 397 L**
Circulation	Forced convection
Temperature range	**–10 to 65°C**
Fluctuation	±0.5 to ±1°C
Uniformity	±2°C
Control accuracy	**±0.1°C**
Controller	Microcomputer PID
Shelves	2 / 3 / 3 / 3 / 3 / 3
Timer	Continuous or 0-9999 min
Alarms	Over-temperature, probe failure
Communication	RS485
Chamber	SUS304 stainless steel, rounded corners
Exterior	Powder-coated cold-rolled steel

DIMENSIONS & WEIGHT	
Internal dimensions (W×D×H)	400 × 370 × 550 / 450 × 420 × 850 / 450 × 450 × 1000 / 480 × 490 × 1070 / 520 × 500 × 1170 / 580 × 540 × 1270 mm
External dimensions (W×D×H)	540 × 580 × 1075 / 598 × 633 × 1471 / 590 × 659 × 1525 / 620 × 690 × 1595 / 660 × 702 × 1695 / 720 × 747 × 1795 mm

DISPLAY & DATA	
Display accuracy	**0.1°C**
Display	LCD
No data link	The RS485 port connects to monitoring systems.

POWER	
Power supply	1 phase, 220 V, 50 Hz
Power consumption	760 / 860 / 940 / 1000 / 1100 / 1800 W

INCUBATION PROBLEMS THE MASTER SCIENCE COOLING BIOCHEMICAL INCUBATOR SOLVES

Drift when room is warm	Active cooling keeps 20°C BOD tests on target.
Lost runs after outages	Programs resume automatically.
Uneven temperature	Fan circulation evens out the chamber.

Applications

The Master Science Cooling Biochemical Incubator is used for: BOD determination and water quality analysis Culture and preservation of bacteria and moulds Drug and food testing Plant cultivation and breeding trials Aquaculture and animal husbandry research

Temperature control

- Refrigeration compressor with eco-friendly refrigerant
- Microcomputer PID controller
- Fan-driven micro airflow for uniformity

Operation

- Continuous or timed running, 0-9999 min
- Power-failure parameter memory
- RS485 communication port
- Chamber lighting

Construction

- SUS304 stainless steel chamber with rounded corners
- Pull-out adjustable shelves
- Casters for moving

Standard Accessories Included

- Cooling biochemical incubator
- Shelves (2 or 3 depending on size)

Optional Accessories

- Independent external over-temperature protector
- Ø35 mm test port
- RS485-to-USB adapter
- 30-segment programmable controller