Dry Bath Incubator - Heating and Cooling Block Heater - -10 to 100 °C - Interchangeable Blocks

Model **MSDBI-100SWISS, MSDBI-R100SWISS** | Brand **Master Science**





The Master Science Dry Bath Incubator holds tubes in high-purity aluminium blocks instead of water, giving clean, accurate temperature control for sample storage and reactions, DNA amplification steps, electrophoresis denaturation and serum coagulation.

KEY HIGHLIGHTS

- No water to change
- Heating and cooling
- Fits many tubes
- Programmable
- Safe

AT A GLANCE

0 to 100 °C / -10 to 100 °C
TEMPERATURE SETTING

≤ ±0.3 °C / ≤ ±0.3 °C
ACCURACY / UNIFORMITY

RT +5 °C to 100 °C / RT -30 °C to 100 °C
TEMPERATURE CONTROL

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

Two versions are offered: DBI-100 heats from 5 °C above room temperature to 100 °C, and DBI-R100 also cools down to 30 °C below room temperature and can hold samples at 4 °C. Interchangeable blocks fit tubes from 0.2 mL to 50 mL and plates.

Overview

- High-purity aluminium
- Easy to swap and clean
- 0.2 mL to 50 mL tubes

Key Benefits

No water to change
the Master Science Dry Bath Incubator uses aluminium blocks.

Heating and cooling
R100 cools to 30 °C below room temperature.

Fits many tubes
blocks from 0.2 to 50 mL.

Programmable
5-step profiles with up to 99 cycles.

Safe
fault alarm and over-temperature cut-out.

For heating with shaking, see the Master Science thermo shaker dry bath.

Technical Specifications

GENERAL	
General	Specifications of the Master Science Dry Bath Incubator (DBI-100 / DBI-R100):
Brand	Master Science
Model Number	MSDBI-100SWISS, MSDBI-R100SWISS
SKU	MSDBI-100SWISS, MSDBI-R100SWISS
Brand	Master Science
Model Numbers	MSDBI-100SWISS, MSDBI-R100SWISS
SKU	MSDBI-100SWISS, MSDBI-R100SWISS
Function	Heating (100); heating and cooling (R100)
Temperature Setting	0 to 100 °C / -10 to 100 °C
Temperature Control	RT +5 °C to 100 °C / RT -30 °C to 100 °C
Accuracy / Uniformity	**≤ ±0.3 °C / ≤ ±0.3 °C**
Heating Time	≤ 12 min (25 to 100 °C)
Cooling Time (R100)	≤ 10 min (100 to 25 °C); ≤ 25 min (RT to RT -30 °C)
Timer	1 min to 99 h 59 min, or continuous
Programs	Up to 5 steps, up to 99 cycles, auto run and resume
Protection	Fault detection with alarm, over-temperature protection, calibration function

DISPLAY & DATA	
Display Resolution	0.1 °C
4 °C Storage	R100 only

POWER	
Power	150 W
Power Supply	AC 110 or 220 V (100); AC 100 to 240 V (R100), 50/60 Hz

DIMENSIONS & WEIGHT	
Dimensions	260 × 195 × 150 mm
Weight	2.5 kg / 4.5 kg

HOW THE MASTER SCIENCE DRY BATH INCUBATOR IMPROVES SAMPLE HEATING	
Contamination from water baths	dry aluminium blocks.
Samples needing cold holding	R100 cooling and 4 °C storage.
Different tube sizes	interchangeable blocks.
Unattended failures	fault alarm.

Applications

The Master Science Dry Bath Incubator is used for

Sample storage and reactions DNA amplification steps Electrophoresis sample denaturation Serum coagulation General sample heating and cooling

Temperature

- ±0.3 °C accuracy
- Heating to 100 °C
- Cooling and 4 °C hold (R100)

Control

- LCD display
- Multi-step programs
- Auto resume after power loss

Optional Accessories

- Blocks: 96 × 0.2 mL; 54 × 0.5 mL; 35 × 1.5 mL; 35 × 2.0 mL; 15 × 0.5 + 20 × 1.5 mL
- Blocks: 96-well ELISA plate; 24 × 5 mL; 15 × 10 mL; 12 × 15 mL; 6 × 50 mL