Thermostatic Magnetic Stirring Bath - Water/Oil Bath with Stirrer - 3 L, 5 L - RT to 220°C

Model **MSWB-H220-V3SWISS, MSWB-H220-V5SWISS** | Brand **Master Science**







The Master Science Thermostatic Magnetic Stirring Bath is a dual-use water or oil bath with built-in magnetic stirring. The stirrer moves the bath liquid and, through it, the sample in the flask, so both are heated evenly. Two sizes hold flasks up to 3 L or 5 L.

KEY HIGHLIGHTS

- Uniform heating
- Water or oil
- Visible reaction
- Sample protection
- For shaking incubation in water, see our water bath shaker.

AT A GLANCE

RT to 220°C
TEMPERATURE RANGE

100 to 1500 rpm, ±10 rpm
SPEED RANGE

±1°C
LIQUID TEMPERATURE ACCURACY

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

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Overview

The bath liner is high-borosilicate glass with a viewing window and a stainless steel base, protected by a heat-resistant outer shell. Heating runs from ambient to 220°C with ±1°C control, stirring from 100 to 1500 rpm with reversible direction, and an LCD shows speed, time and temperature on the Master Science Thermostatic Magnetic Stirring Bath.

> Hot plates with a separate bath heat unevenly and are harder to control. The Master Science Thermostatic Magnetic Stirring Bath helps with:

Overview

- High-borosilicate glass liner resistant to thermal shock
- Viewing window
- Stainless steel base
- Heat-resistant protective outer shell

Key Benefits

Uniform heating
Stirring the bath liquid also stirs the sample for even temperature.

Water or oil
Dual-use bath up to 220°C.

Visible reaction
Glass liner with window lets you watch the flask.

Sample protection
Heating stops at the end of the timer while stirring continues.

For shaking incubation in water, see our water bath shaker.

Technical Specifications

GENERAL

General	Technical data of the Master Science Thermostatic Magnetic Stirring Bath:
Brand	Master Science
Model Number	MSWB-H220-V3SWISS, MSWB-H220-V5SWISS
SKU	MSWB-H220-V3SWISS, MSWB-H220-V5SWISS
Brand	Master Science
Models	MSWB-H220-V3SWISS (3 L), MSWB-H220-V5SWISS (5 L)
SKU	MSWB-H220-V3SWISS, MSWB-H220-V5SWISS
Bath Material	High-borosilicate glass with stainless steel base
General	Max. Flask Volume: 3 L / 5 L
General	Max. Stir Bar Length: 40 mm
Speed Range	**100 to 1500 rpm, ±10 rpm**
Motor	Brushless DC, 20 W output
Temperature Range	**RT to 220°C**
Liquid Temperature Accuracy	**±1°C**
Overheat Protection	350°C
External Sensor	PT1000
Timer	1 min to 99 h 59 min
Voltage	100-120 / 200-240 V, 50/60 Hz
Protection Class	IP21

DIMENSIONS & WEIGHT

Bath Size	3 L: Ø220 × 105 mm; 5 L: Ø240 × 135 mm
Dimensions (W × D × H)	283 × 343 × 215 mm / 283 × 343 × 228 mm
Weight	6.0 kg / 6.7 kg

DISPLAY & DATA

Display	LCD, 0.1°C resolution
Heating Output	800 W / 1250 W

PROBLEMS THE MASTER SCIENCE THERMOSTATIC MAGNETIC STIRRING BATH SOLVES	
Uneven sample heating	Bath and sample are stirred together.
Running a bath dry	Boil-dry protection switches off heating.
Accidental burns	A protective shell and HOT warning reduce risk.
Overheating at end of run	Heating stops when the timer ends while stirring continues.

Applications

The Master Science Thermostatic Magnetic Stirring Bath is used for: Heating reaction flasks in water or oil Organic synthesis with stirring Dissolving samples at controlled temperature Chemistry teaching and research Pharmaceutical and materials labs

Control

- LCD display of speed, time and temperature
- Touch buttons with audible prompts
- Timer with end-of-run buzzer
- Reversible stirring
- Safety lock
- Status indicator light

Safety

- Boil-dry, over-current, ground-fault and over-temperature protection
- Two independent safety circuits
- Residual heat HOT warning above 50°C
- Spark-free brushless DC motor

Standard Accessories Included

- Stirring bath main unit

Optional Accessories

- PT1000 external temperature sensor