Water Bath Shaker - Reciprocating Shaking Water Bath - 31 L, 20-180 rpm - RT to 100°C, ±0.1°C

Model **MSWB-S30SWISS** | Brand **Master Science**







The Master Science Reciprocating Water Bath Shaker shakes and mixes samples steadily while holding them at a constant temperature. It is used for cell culture, hybridization, molecular biology assays and other incubations that need both gentle agitation and precise warming.

KEY HIGHLIGHTS

- Stable temperature
- Smooth shaking
- Two in one
- Power-failure recovery
- For a bath without shaking, see our laboratory water bath.

AT A GLANCE

RT to 100°C TEMPERATURE RANGE	**20 to 180 rpm, ±1 rpm** SPEED RANGE
±0.2°C UNIFORMITY	**PID control keeps ±0.1°C stability.** TEMPERATURE DRIFT DURING INCUBATION

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

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Overview

The 31 L mirror stainless steel tank operates from ambient to 100°C with ±0.1°C stability, and a crankshaft and double-link drive moves the basket back and forth at 20 to 180 rpm with a 16 or 24 mm stroke. A large backlit LCD and PID control make the Master Science Reciprocating Water Bath Shaker easy to set, and it can also be used as a plain water bath.

> Separate shakers and baths waste space and give less control. The Master Science Reciprocating Water Bath Shaker helps with:

Overview

- Reciprocating drive, 20 to 180 rpm
- Slow start and adjustable start speed
- Automatic lock if speed goes out of control
- 16 or 24 mm stroke

Key Benefits

Stable temperature
PID control holds ±0.1°C with ±0.2°C uniformity.

Smooth shaking
PID speed control with slow start prevents splashing.

Two in one
Use as a shaker or a plain water bath.

Power-failure recovery
Resumes automatically after an unexpected power cut.

For a bath without shaking, see our laboratory water bath.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSWB-S30SWISS
SKU	MSWB-S30SWISS
Brand	Master Science
Model	MSWB-S30SWISS
SKU	MSWB-S30SWISS
Type	Reciprocating shaking + thermostatic water bath
Temperature Range	**RT to 100°C**
Resolution	0.1°C
Stability	±0.1°C
Uniformity	±0.2°C
Stroke	16 or 24 mm (16 mm as delivered)
Speed Range	**20 to 180 rpm, ±1 rpm**
Tank	Mirror stainless steel, 500 × 310 × 200 mm, 31 L
Drive	Crankshaft, double link and four wheels
Basket	395 × 250 mm, 12 × 100 ml / 8 × 250 ml / 6 × 500 ml, 5 kg per layer
Controller	LCD PID, touch buttons
Timer	0 to 9999 min
Sensors	Pt100 temperature, Hall speed sensor
Heater	Stainless steel, 1.5 kW

DIMENSIONS & WEIGHT

Exterior Size	828 × 360 × 425 mm

POWER

Power Supply	AC 220 V, 50 Hz, 6.8 A
Lost runs after power cuts	Settings are remembered and operation resumes.

PROBLEMS THE MASTER SCIENCE RECIPROCATING WATER BATH SHAKER SOLVES

Temperature drift during incubation	PID control keeps ±0.1°C stability.
Splashing at start-up	Slow-start shaking protects flask contents.
Low water damage	Water level protection safeguards the heater.

Applications

The Master Science Reciprocating Water Bath Shaker is used for: Cell culture and incubation Hybridization Molecular biology assays Enzyme reactions at controlled temperature Microbiology and biochemistry laboratories

Temperature Control

- Large backlit LCD with set, actual and remaining time
- PID temperature control, Pt100 sensor
- Auto restart after power loss

Construction

- Mirror stainless steel tank, cover and shelf
- Polyurethane insulation
- Electrostatically coated steel housing

Safety

- Over-temperature alarm
- Water level protection
- Motor shaft lock protection
- Menu lock

Standard Accessories Included

- Water bath shaker main unit
- Water bath flask seat
- Tube rack