Microplate Thermo Shaker Incubator, 6 Plates, RT+5-100°C, 200-1600 rpm, Heated Lid

Model **MSDBI-PR80-5SWISS** | Brand **Master Science**





The Microplate Thermo Shaker Incubator heats and shakes up to six standard microplates or deep-well plates at once. It controls temperature from RT+5°C to 100°C with ±0.5°C accuracy and uniformity at 37°C, and shakes on a 3 mm orbit at 200 to 1600 rpm.

KEY HIGHLIGHTS

- Six Plates, Six Timers
- Reduced Edge Effects
- Fast Warm-Up
- Safe Unattended Use

AT A GLANCE

RT+5°C to 100°C TEMPERATURE CONTROL RANGE	**0-100°C** TEMPERATURE DISPLAY RANGE
6 microplates or deep-well plates CAPACITY	**≤ ±0.5°C at 37°C** TEMPERATURE ACCURACY

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

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Overview

A wrap-around heated lid reduces thermal edge effects, with automatic or manual lid temperature control. The Microplate Thermo Shaker Incubator uses PID temperature control, a maintenance-free brushless DC motor and independent timers for each of the six plates, so separate batches can start and finish at different times.

For shaking at room temperature only, see our Brushless Microplate Shaker, a simpler partner to the Microplate Thermo Shaker Incubator.

Plate incubation in an oven or with separate devices brings the issues below. The Microplate Thermo Shaker Incubator solves each one.

Key Benefits

Six Plates, Six Timers
Each plate can be timed on its own, so staggered batches run together.

Reduced Edge Effects
The wrap-around heated lid keeps outer wells at the same temperature as inner wells.

Fast Warm-Up
Heats from 25 to 60°C in under 5 minutes, with automatic preheating.

Safe Unattended Use
Dual over-temperature protection and auto resume after power loss.

Technical Specifications

UNDEFINED

Brand	Master Science
Model Number	MSDBI-PR80-5SWISS
SKU	MSDBI-PR80-5SWISS
Capacity	**6 microplates or deep-well plates**
Temperature Control Range	**RT+5°C to 100°C**
Temperature Display Range	**0-100°C**
Display Resolution	0.1°C
Temperature Accuracy	**≤ ±0.5°C at 37°C**
Temperature Uniformity	≤ ±0.5°C at 37°C
Heating Time	< 5 min (25 to 60°C); ≤ 20 min (25 to 100°C)
Speed Range	**200-1600 rpm**
Orbit	3 mm
Timer	1 min - 99 h 59 min, or continuous
Independent Timing	Yes, per plate
Auto Preheating	Yes, 37-100°C setting range
Heated Lid Control	Automatic / manual
Multi-Step Programs	Up to 5 steps
Cycles	Up to 99
Other Functions	Pause, auto resume after power failure, auto fan, temperature calibration
Protection	Software and hardware over-temperature protection
Motor	Brushless DC motor
Display	LCD
Power	480 W
Power Supply	AC 220 V or AC 110 V, 50/60 Hz
Dimensions	481 × 346 × 228 mm
Weight	15 kg

PROBLEMS THE MICROPLATE THERMO SHAKER INCUBATOR SOLVES	
Edge wells run cooler than centre wells	The wrap-around heated lid reduces thermal edge effects.
Separate shaker and incubator	Heating and 200-1600 rpm shaking happen in one unit.
One timer for every plate	Each of the six plates has its own timer.
Long warm-up delays	Heating from 25 to 60°C takes under 5 minutes.

POWER	
Runs lost after a power cut	Auto resume restarts the program when power returns.

Applications

- **Enzyme reactions and enzyme deactivation**
- **PCR sample preparation**
- **Storing enzymes or DNA libraries at the workstation**
- **Sample incubation, catalysis and blending in plates**
- **Heating and holding samples at a set temperature**
- **ELISA incubation with shaking**

Temperature

- Control range RT+5°C to 100°C
- PID control adjusts heating rate and shortens waiting time
- Accuracy and uniformity ≤ ±0.5°C at 37°C
- Wrap-around heated lid with automatic or manual control
- Automatic preheating, 37-100°C

Shaking

- Brushless DC motor, low noise, maintenance-free
- 200-1600 rpm on a 3 mm orbit

Programs and Timing

- Independent timer for each of 6 plates
- Multi-step running up to 5 steps
- Up to 99 cycles
- Pause and auto resume after power failure

Safety and Service

- Software and hardware over-temperature protection
- Automatic fan
- Temperature calibration function
- LCD display for easy setup

Standard Accessories Included

- Microplate thermo shaker incubator main unit

Optional Accessories

- No optional accessories are listed for this model; contact our team for compatible items.