Constant Temperature Oil Bath - Laboratory Oil Bath - RT to 300°C - 2000 W, Stainless Chamber

Model **MSOB-SSWISS, MSOB-SCSWISS** | Brand **Master Science**







The Master Science Constant Temperature Oil Bath heats samples in oil from ambient up to 300°C, well beyond the range of a water bath. Its control circuit uses high-stability operational amplifiers and a dual-slope A/D converter for precise readings, combined with far-infrared heating and a 2000 W heating tube.

KEY HIGHLIGHTS

- High temperature
- Precise measurement
- Uniform bath
- Easy draining

AT A GLANCE

RT to 300°C
TEMPERATURE RANGE

2000 W, heating tube
HEATING POWER

Oil heating reaches 300°C.
LIMITED WATER BATH TEMPERATURE

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

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www.themsci.com

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Overview

Two versions are available: a standard bath with a 280 × 280 × 270 mm working chamber, and a circulating model with a 300 × 300 × 280 mm chamber, a 6 L/min circulation pump, tighter ±1°C control and a drain valve. Both versions of the Master Science Constant Temperature Oil Bath have stainless steel chambers and a 0 to 999 minute timer.

Water baths cannot reach temperatures needed for many reactions. The Master Science Constant Temperature Oil Bath helps with:

Key Benefits

High temperature
Oil heating up to 300°C.

Precise measurement
Operational amplifiers and dual-slope A/D conversion.

Uniform bath
Circulating model moves oil at 6 L/min for ±1°C control.

Easy draining
Drain valve on the circulating model.

For stirred heating up to 220°C, see our thermostatic magnetic stirring bath.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSOB-SSWISS, MSOB-SCSWISS
SKU	MSOB-SSWISS, MSOB-SCSWISS
Brand	Master Science
Models	MSOB-SSWISS (standard), MSOB-SCSWISS (circulating)
SKU	MSOB-SSWISS, MSOB-SCSWISS
Temperature Range	**RT to 300°C**
Temperature Sensitivity / Fluctuation	Standard: ≤2°C; circulating: ≤1°C
Circulation Flow	Circulating model: 6 L/min
Timer	0 to 999 min
Drain Valve	Circulating model only
Working Chamber	Standard: 280 × 280 × 270 mm; circulating: 300 × 300 × 280 mm

POWER	
Heating Power	2000 W, heating tube
Power Supply	220 V, 50/60 Hz (110 V optional)

DIMENSIONS & WEIGHT	
Internal Dimensions	Standard: 280 × 280 × 300 mm; circulating: 450 × 300 × 280 mm (37.8 L)
External Dimensions	Standard: 440 × 350 × 340 mm; circulating: 610 × 370 × 500 mm

PROBLEMS THE MASTER SCIENCE CONSTANT TEMPERATURE OIL BATH SOLVES	
Limited water bath temperature	Oil heating reaches 300°C.
Temperature gradients in the bath	The circulating model keeps oil moving.
Messy oil changes	A drain valve simplifies emptying.
Unattended runs	The timer controls heating duration.

Applications

The Master Science Constant Temperature Oil Bath is used for: High-temperature heating of samples and flasks Distillation and reaction heating above 100°C Material and polymer testing Chemical and petrochemical laboratories Teaching and research labs

Heating and Control

- 2000 W heating tube with far-infrared heating
- High-stability operational amplifier circuit
- Dual-slope high-precision A/D converter
- Digital display and 0-999 min timer

Construction

- Stainless steel chamber and bath tank
- Stainless steel lid

Circulating Model

- 6 L/min circulation pump
- ±1°C fluctuation
- Drain valve

Standard Accessories Included

- Oil bath main unit

Optional Accessories

- 110 V power supply version