LED Hot Plate - 550°C Laboratory Hotplate - 184 mm Glass Ceramic Plate - PT1000 Sensor Input

Model **MSHPT-550SWISS** | Brand **Master Science**





The Master Science 550°C LED Hot Plate is a single-position laboratory heater with a 184 × 184 mm glass ceramic work plate. The glass ceramic surface resists chemicals and transfers heat efficiently, and the plate can be set from room temperature up to 550°C in 5°C steps.

KEY HIGHLIGHTS

- High temperature
- Chemical-resistant top
- Precise sample control
- Built-in safety

AT A GLANCE

Room temperature to 550°C, 5°C increments
TEMPERATURE RANGE

±10°C
PLATE CONTROL ACCURACY

580°C (fixed)
SAFETY TEMPERATURE

An external PT1000 probe controls the liquid directly.
UNCERTAIN SAMPLE TEMPERATURE

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

support@themsci.com
www.themsci.com

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Overview

An LED display shows the temperature, and an external PT1000 probe can be connected for direct control of the sample temperature with ±0.5°C accuracy. A separate safety circuit with a fixed 580°C limit and a flashing HOT warning above 50°C, even after switch-off, make the Master Science 550°C LED Hot Plate safe for daily use.

Basic hot plates can overheat or leave operators guessing. The Master Science 550°C LED Hot Plate helps with:

Key Benefits

High temperature
Heats up to 550°C for digestion, evaporation and drying.

Chemical-resistant top
Glass ceramic plate withstands spills and transfers heat well.

Precise sample control
External PT1000 probe controls the liquid temperature directly.

Built-in safety
Independent 580°C cut-out and residual heat warning.

For heating with stirring, see our hotplate magnetic stirrer.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSHPT-550SWISS
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Work Plate	184 × 184 mm (7 inch), glass ceramic
Heating Positions	1
Temperature Range	**Room temperature to 550°C, 5°C increments**
Plate Control Accuracy	**±10°C**
Safety Temperature	580°C (fixed)
External Sensor	PT1000 (±0.5°C)
Hot Warning	Above 50°C
Display	LED, ±1°C

POWER

Heating Power	1000 W
Total Power	1010 W
Voltage	100-120 / 200-240 V, 50/60 Hz

ENVIRONMENT

Protection Class	IP21
Ambient Conditions	5 to 40°C, up to 80% RH

DIMENSIONS & WEIGHT

Dimensions (W × D × H)	215 × 360 × 112 mm
Net Weight	4.5 kg

PROBLEMS THE MASTER SCIENCE 550°C LED HOT PLATE SOLVES

Uncertain sample temperature	An external PT1000 probe controls the liquid directly.
Corroded heating surfaces	Glass ceramic resists chemicals.
Accidental burns	The HOT warning flashes while the plate is still hot.
Runaway heating	An independent safety circuit cuts out at 580°C.

Applications

The Master Science 550°C LED Hot Plate is used for

Heating solutions and samples in beakers and flasks Sample digestion and evaporation Drying and ashing preparation Chemistry teaching and research laboratories Quality control and environmental labs

Heating

- 184 × 184 mm glass ceramic work plate
- Up to 550°C in 5°C steps
- 1000 W heating power

Control and Display

- LED temperature display
- PT1000 external probe input, ±0.5°C

Safety

- Separate safety circuit fixed at 580°C
- Flashing HOT warning above 50°C, even when switched off
- IP21 protection

Standard Accessories Included

- Hot plate main unit

Optional Accessories

- PT1000 external temperature sensor