# Large Laboratory Hot Plate - Aluminium or Graphite Plate - 300×300 to 400×600 mm - 320-400°C

Model **MSHPT-320-5BSWISS, MSHPT-320-8BSWISS, MSHPT-320-9BSWISS, MSHPT-350-5BSWISS, MSHPT-350-8BSWISS, MSHPT-350-9BSWISS, MSHPT-400-5BSWISS, MSHPT-400-8BSWISS, MSHPT-400-9BSWISS** | Brand **Master Science**





The Master Science Large Laboratory Hot Plate series provides a wide, evenly heated surface for heating many vessels at once, such as digestion, evaporation and drying of multiple samples. Plates are available in 300 × 300, 350 × 450 and 400 × 600 mm sizes, carrying 20 to 40 kg.

### KEY HIGHLIGHTS

- Heat many vessels at once
- Fast, uniform heating
- Choice of control
- High capacity

### AT A GLANCE

**320 series: ±10%; 350 and 400 series: ±1%**
TEMPERATURE ACCURACY

**320 series: scale dial; 350 and 400 series: digital display**
TEMPERATURE SETTING

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

support@themsci.com
www.themsci.com

Scan to view online

## Overview

Three temperature classes are offered: 320°C models with aluminium plates and dial setting, 350°C models with aluminium plates and digital control with timer, and 400°C models with graphite plates and digital control with timer. The plates heat up quickly and uniformly, making the Master Science Large Laboratory Hot Plate a dependable workhorse for busy labs.

Small hot plates slow down batch work. The Master Science Large Laboratory Hot Plate helps with:

## Key Benefits

**Heat many vessels at once**
Plates up to 400 × 600 mm.

**Fast, uniform heating**
Aluminium or graphite plates spread heat evenly.

**Choice of control**
Simple dial or digital control with timer.

**High capacity**
Load up to 40 kg on the largest plate.

For smaller single-vessel heating, see our 550°C LED hot plate.

## Technical Specifications

### GENERAL

| | |
|---|---|
| General | Technical data of the Master Science Large Laboratory Hot Plate series: |
| Brand | Master Science |
| Model Number | MSHPT-320-5BSWISS, MSHPT-320-8BSWISS, MSHPT-320-9BSWISS, MSHPT-350-5BSWISS, MSHPT-350-8BSWISS, MSHPT-350-9BSWISS, MSHPT-400-5BSWISS, MSHPT-400-8BSWISS, MSHPT-400-9BSWISS |
| SKU | MSHPT-320-5BSWISS, MSHPT-320-8BSWISS, MSHPT-320-9BSWISS, MSHPT-350-5BSWISS, MSHPT-350-8BSWISS, MSHPT-350-9BSWISS, MSHPT-400-5BSWISS, MSHPT-400-8BSWISS, MSHPT-400-9BSWISS |
| Brand | Master Science |
| Models | MSHPT-320-5B/8B/9BSWISS, MSHPT-350-5B/8B/9BSWISS, MSHPT-400-5B/8B/9BSWISS |
| SKU | MSHPT-320-5BSWISS, MSHPT-320-8BSWISS, MSHPT-320-9BSWISS, MSHPT-350-5BSWISS, MSHPT-350-8BSWISS, MSHPT-350-9BSWISS, MSHPT-400-5BSWISS, MSHPT-400-8BSWISS, MSHPT-400-9BSWISS |
| Plate Load | 20 / 30 / 40 kg |
| Plate Material | 320 and 350 series: aluminium; 400 series: graphite |
| General | Max. Temperature: 320 / 350 / 400°C |
| Temperature Setting | 320 series: scale dial; 350 and 400 series: digital display |
| Timer | 350 and 400 series: 0 to 9999 min/h |
| Temperature Accuracy | **320 series: ±10%; 350 and 400 series: ±1%** |
| Plate Uniformity | 320 series: ±15%; 350 and 400 series: ±10% |
| Sensor | K-type |

### DIMENSIONS & WEIGHT

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|---|---|
| Plate Size | 5B: 300 × 300 mm; 8B: 350 × 450 mm; 9B: 400 × 600 mm |
| Exterior Size (W × D × H) | 5B: 340 × 370 × 220 mm; 8B: 420 × 500 × 220 mm; 9B: 470 × 650 × 220 mm |

### POWER

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|---|---|
| Heating Power | 320 series: 800 / 1500 / 2200 W; 350 series: 1200 / 2400 / 3500 W; 400 series: 1800 / 3000 / 4500 W |
| Power Supply | 220 V, 50/60 Hz |

### PROBLEMS THE MASTER SCIENCE LARGE LABORATORY HOT PLATE SOLVES

| | |
|---|---|
| Too few heating positions | A large plate holds many beakers at once. |
| Uneven heating across vessels | Improved plate uniformity gives consistent results. |
| Slow heat-up | The plates heat up quickly and evenly. |
| Unattended timing | Digital models include a timer. |

## Applications

**The Master Science Large Laboratory Hot Plate is used for**
Acid digestion of multiple samples Evaporation and concentration Drying samples and containers Environmental, food and geological labs Teaching and production laboratories

## Plates

- Aluminium plates (320 and 350 series)
- Graphite plates (400 series)
- Three sizes from 300 × 300 to 400 × 600 mm

## Control

- Dial setting (320 series)
- Digital display with timer (350 and 400 series)
- K-type temperature sensor

## Performance

- Fast heat-up
- Improved plate temperature uniformity
- Loads up to 40 kg

## Standard Accessories Included

- Hot plate main unit