Box Muffle Furnace - High Temperature Lab Furnace - 1400°C - SiC Heating

Model **MSFNC-BX1400-2SWISS, MSFNC-BX1400-4SWISS, MSFNC-BX1400-9SWISS, MSFNC-BX1400-16SWISS** | Brand **Master Science**









The Master Science 1400°C Muffle Furnace is a box-type high-temperature furnace for ashing, sintering, heat treatment and materials testing. Silicon carbide heating rods and an S-type thermocouple allow a maximum temperature of 1400 °C, with continuous work at up to 1300 °C.

KEY HIGHLIGHTS

- High working temperature
- Energy saving
- Cool outer casing
- Programmed heating
- Sizes for every lab

AT A GLANCE

1400 °C MAXIMUM TEMPERATURE	**1 L / 4.5 L / 12 L / 36 L** CAPACITY
±1 °C TEMPERATURE ACCURACY	**≤ 1300 °C** CONTINUOUS WORKING TEMPERATURE

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

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Overview

The chamber is lined with high-purity alumina fibre that keeps heat in and power use down, while a double steel shell cooled by a fan keeps the outside safe to touch.

Overview

- SiC heating rods
- S-type thermocouple
- Heating rate up to 30 °C/min

Key Benefits

High working temperature
the Master Science 1400°C Muffle Furnace reaches 1400 °C.

Energy saving
alumina fibre insulation reduces heat loss.

Cool outer casing
double steel shell with cooling fan.

Programmed heating
30 segments for ramps and holds.

Sizes for every lab
chambers from 1 L to 36 L.

For drying below 300 °C, see the Master Science dual convection drying oven.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSFNC-BX1400-2SWISS, MSFNC-BX1400-4SWISS, MSFNC-BX1400-9SWISS, MSFNC-BX1400-16SWISS
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Maximum Temperature	1400 °C
Continuous Working Temperature	≤ 1300 °C
Heating Rate	0 to 30 °C/min (10 °C/min recommended)
Temperature Accuracy	**±1 °C**
Temperature Uniformity	±5 °C
Capacity	**1 L / 4.5 L / 12 L / 36 L**
Heating Element	SiC heating rods
Thermocouple	S type
Chamber Material	Alumina ceramic fibre
Controller	PID with SCR phase-angle power control, 30 programmable segments

DIMENSIONS & WEIGHT

Chamber Size (W × D × H)	100 × 100 × 100 / 150 × 200 × 150 / 200 × 300 × 200 / 300 × 400 × 300 mm (custom sizes possible)
External Size (W × D × H)	350 × 470 × 570 / 510 × 700 × 810 / 550 × 700 × 895 / 640 × 850 × 1050 mm

POWER

Power Supply	AC 220 V or AC 380 V, 50/60 Hz (depending on model)
Maximum Power	2 kW / 4 kW / 9 kW / 16 kW

COMMON LABORATORY PROBLEMS AND HOW THIS FURNACE HELPS

Common Laboratory Problems and How This Furnace Helps	How the Master Science 1400°C Muffle Furnace answers common furnace problems:
Hot outer casing	fan-cooled double shell.
High electricity bills	fibre insulation holds heat.
Cracked samples from fast heating	programmable ramp rates.
Opening a hot furnace	optional interlock cuts power when the door opens.

Applications

The Master Science 1400°C Muffle Furnace is used for
Ashing and loss-on-ignition tests Ceramic and powder sintering Heat treatment of metals Glass and materials research Cement, mining and quality control labs

Control

- PID with SCR power control
- 30-segment program
- ±1 °C accuracy

Construction

- High-purity alumina fibre chamber
- Double steel shell with fan cooling
- Optional door safety interlock

Optional Accessories

- Door safety interlock with automatic power cut
- LCD touch screen controller
- PC software for program control
- Custom chamber sizes