Muffle Furnace - 1200°C Box Type Lab Furnace - Ceramic Fiber Chamber - 2L to 16L, Programmable

Model **MSFNC-BX1200-2PSSWISS, MSFNC-BX1200-7PSSWISS, MSFNC-BX1200-12PSSWISS, MSFNC-BX1200-16PSSWISS** | Brand **Master Science**





The Master Science 1200°C Box Muffle Furnace is a compact laboratory furnace for ashing, heat treatment, sintering and general high-temperature work from 100 to 1200°C. Four chamber sizes of 2, 7, 12 and 16 litres are available.

KEY HIGHLIGHTS

- Fast heating
- Efficient insulation
- Flexible programs
- Safe operation

AT A GLANCE

100 to 1200°C
TEMPERATURE RANGE

Ceramic fibre
CHAMBER / INSULATION

Self-tuning PID and ±1°C control.
TEMPERATURE OVERSHOOT

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

support@themsci.com
www.themsci.com

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Overview

The chamber is made of vacuum-formed polycrystalline mullite ceramic fibre for efficient insulation, with alloy wire heating on the left, right and top sides so the furnace reaches maximum temperature in 30 minutes or less. A colour LCD 64-segment program controller and K-type sensor hold temperature to ±1°C, and an exhaust port makes the Master Science 1200°C Box Muffle Furnace well suited to ashing.

Slow, poorly insulated furnaces waste time and energy. The Master Science 1200°C Box Muffle Furnace helps with:

Overview

- Vacuum-formed polycrystalline mullite fibre
- Double ceramic liner
- Mirror stainless steel mouth
- Exhaust device for ashing

Key Benefits

Fast heating
Reaches 1200°C in 30 minutes or less.

Efficient insulation
Mullite ceramic fibre chamber and double shell with air sleeve.

Flexible programs
64-segment programmable controller.

Safe operation
Door lock, door-open power cut and over-temperature alarm.

For processing in a controlled tube, see our 1700°C tube furnace.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSFNC-BX1200-2PSSWISS, MSFNC-BX1200-7PSSWISS, MSFNC-BX1200-12PSSWISS, MSFNC-BX1200-16PSSWISS
SKU	MSFNC-BX1200-2PSSWISS, MSFNC-BX1200-7PSSWISS, MSFNC-BX1200-12PSSWISS, MSFNC-BX1200-16PSSWISS
Brand	Master Science
Models	MSFNC-BX1200-2PSSWISS (2 L), MSFNC-BX1200-7PSSWISS (7 L), MSFNC-BX1200-12PSSWISS (12 L), MSFNC-BX1200-16PSSWISS (16 L)
SKU	MSFNC-BX1200-2PSSWISS, MSFNC-BX1200-7PSSWISS, MSFNC-BX1200-12PSSWISS, MSFNC-BX1200-16PSSWISS
Temperature Range	**100 to 1200°C**
Resolution	1°C
Temperature Fluctuation	±1°C
Heat-up Time to Max.	≤ 30 min
Heating	Alloy wire, three sides (left, right, top)
Chamber / Insulation	Ceramic fibre
Outer Shell	Stainless steel
Exhaust Hole	Ø30 mm (chimney 80 × 60 mm)
Controller	Colour LCD, 64-segment programmable
Timer	Up to 99 h 59 min with timing wait
Sensor	K-type
Inner Chamber (W × D × H)	2 L: 120 × 200 × 80 mm; 7 L: 200 × 300 × 120 mm; 12 L: 200 × 300 × 200 mm; 16 L: 250 × 400 × 160 mm
Exterior (W × D × H)	2 L: 450 × 685 × 600 mm; 7 L: 530 × 785 × 640 mm; 12 L: 530 × 785 × 720 mm; 16 L: 600 × 895 × 700 mm

POWER	
Power	1.5 / 3.0 / 4.5 / 6.0 kW
Power Supply	AC 220 V (16 L: AC 380 V), 50/60 Hz

PROBLEMS THE MASTER SCIENCE 1200°C BOX MUFFLE FURNACE SOLVES	
Long heat-up times	Three-side heating reaches maximum temperature in ≤30 minutes.
Smoke during ashing	An exhaust port vents combustion gases.
Temperature overshoot	Self-tuning PID and ±1°C control.
Burns from opening hot doors	Door-open power cut and manual lock add safety.

Applications

The Master Science 1200°C Box Muffle Furnace is used for
Ashing of food, feed, coal and plastics Heat treatment and annealing of small parts Sintering and calcination Loss-on-ignition tests Laboratories in industry, universities and research

Control

- Colour LCD 64-segment program controller
- K-type sensor
- Sensor offset correction and overshoot self-tuning
- Parameter lock and power-off memory
- Timer up to 99 h 59 min

Construction and Safety

- Stainless steel double shell with air sleeve
- Split design with detachable circuitry
- Manual door lock
- Power cut when door opens
- Over-temperature sound and light alarm
- Thermocouple failure protection

Standard Accessories Included

- Muffle furnace main unit

Optional Accessories

- LCD program temperature controller with USB data storage