Muffle Furnace, 7L, 1200°C, N

Model **MSCXG2318OSWISS** | Brand **Master Science** | Unit **Pc**



Muffle Furnace

The Lab Muffle Furnace is engineered with high-quality electric furnace wire and alumina ceramic fiber insulation material, offering efficient and reliable high-temperature heat treatment solutions. It is ideal for processes like quenching, annealing, and tempering of small steel parts in industrial and mining enterprises, universities, and research institutes.

KEY HIGHLIGHTS

- Efficient Combustion
- Low Noise Cooling Fan
- Overload Protection
- Automatic Shutdown
- Heat Insulation

AT A GLANCE

07 L
CHAMBER VOLUME

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Overview

Additionally, it serves as an excellent pre-treatment device for sintering, ashing analysis, and more, handling materials like metal, stone tools, and ceramics.

Key Features

International Safety Compliance
Meets global electrical safety standards. Equipped with a microcomputer PID controller for precise and reliable control. Includes a programming setting function with 7 periods and 9 steps for each period (total of 63 programmable steps). High-grade heating elements with excellent aging and corrosion resistance. Lightweight, corrosion-resistant ceramic fiber furnace.

Efficient Combustion
Integrated chimney enhances combustion efficiency. Powder-coated cold-rolled steel housing. Lightweight door for safe and easy operation.

Low Noise Cooling Fan
Reduces external temperature effectively.

Overload Protection
Guards against over-current, over-voltage, and overheating.

Automatic Shutdown
Safety switch ensures the furnace turns off when the door is opened.

Heat Insulation
Ceramic fiber insulation minimizes shell surface temperature, preventing burns.

Sensor
Type K Thermocouple

Insulation Material
Alumina Ceramic Fiber

Heating Element
Fe-Cr-Al

DIMENSIONS

Additional Information
The furnace combines durability and performance, employing alumina ceramic fiber insulation and premium electric furnace wires to ensure uniform heating and efficient insulation. Designed for multi-purpose applications including heat treatment, material preparation, and analytical procedures. This muffle furnace is a robust, versatile tool suitable for demanding industrial and academic settings, ensuring consistent results and long-lasting performance.

Technical Specifications

GENERAL

General	Heating Time30-52 minutes
General	Interior Dimensions (W x D x H)200 × 300 × 120 mm
General	External Dimensions (W x D x H)460 × 650 × 674 mm
Chimney	Yes
Over-Current Protector	Yes
Power Failure Memory	Yes
Anti-Scalding Protection	Yes
Data Logging	USB (optional)

GENERAL INFORMATION

Chamber Volume	07 L
Maximum	1200°C
Working	1100°C
Preset Start and Off	Yes
Programmable Controller	Yes

Applications

Heat treatment of small steel parts.

Universities and Research Institutes
Material preparation, sintering, and ashing analysis.

Ceramic and Metalwork
Pre-treatment for various analytical and industrial processes.

Standard Accessories Included

- Power Consumption: 5 kW
- Power Supply: 220V, 50/60Hz, Single Phase