

Muffle Furnace, 7L, 1200°C, N



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

Product Details

- 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**.

Key Features

International Safety Compliance: Meets global electrical safety standards.

Advanced Temperature Control:

- o Equipped with a microcomputer PID controller for precise and reliable control.
- o Includes a programming setting function with 7 periods and 9 steps for each period (total of 63 programmable steps).

Superior Build Quality:

- o High-grade heating elements with excellent aging and corrosion resistance.
- o Lightweight, corrosion-resistant ceramic fiber furnace.

Efficient Combustion: Integrated chimney enhances combustion efficiency.

Ergonomic Design:

- o Powder-coated cold-rolled steel housing.
- o Lightweight door for safe and easy operation.

Customizable Features: Preset start and off functions available as per user requirements.

Safety Features

- **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.

Specifications for Model MSCXG2318OSWISS

General Information

- **Model:** MSCXG2318OSWISS
- **Chamber Volume:** 07 L
- **Temperature Range:**

- **Maximum:** 1200°C
- **Working:** 1100°C
- **Preset Start and Off:** Yes
- **Programmable Controller:** Yes
- **Data Logging:** USB (optional)

Technical Features

- **Sensor:** Type K Thermocouple
- **Insulation Material:** Alumina Ceramic Fiber
- **Heating Element:** Fe-Cr-Al
- **Heating Time:** 30-52 minutes

Dimensions

- **Interior Dimensions (W x D x H):** 200 × 300 × 120 mm
- **External Dimensions (W x D x H):** 460 × 650 × 674 mm

Safety Features

- **Chimney:** Yes
- **Over-Current Protector:** Yes
- **Power Failure Memory:** Yes
- **Anti-Scalding Protection:** Yes

Power and Electrical Requirements

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

Applications

- **Industrial and Mining Enterprises:** 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.

This muffle furnace is a robust, versatile tool suitable for demanding industrial and academic settings, ensuring consistent results and long-lasting performance.