Muffle Furnace, 7L, 1200°C

Muffle Furnace

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

Model	MSCXG2318SWISS
Chamber Volume (L)	7
Temperature (°C)	Maximum: 1200
	Working: 1100
Preset Start and Off	Yes
Programmable Controller	Yes
Datalogging	USB (optional)
Sensor	Type K thermocouple
Insulation Material	Alumina ceramic fiber
Heating Element	Fe-Cr-Al
Heating Time (mins)	30-52
Interior Dimensions (mm)	200 × 300 × 120
Exterior Dimensions (mm)	460 × 650 × 674
Safety Features	Chimney, Over-current protector, Power failure memory, Anti-scalding

Model	MSCXG2318SWISS
	protection
Net Weight (Kg)	45
Power Consumption (kW)	3
Power Supply	220V, 50/60Hz, 1 Phase
Testing Environment	25°C

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.