



UNIVERSE MUFFLE FURNACE AZA1066

The AZA1066 Muffle Furnace from AZALAB is a compact, high-efficiency thermal processing unit designed for applications requiring accurate and uniform high-temperature heating up to 950°C. Engineered for precision, durability, and energy efficiency, it is ideal for laboratory testing, research applications, and industrial heat treatment processes. Widely used in quality control laboratories, R&D centers, educational institutions, and industrial facilities, the AZA1066 supports processes such as ashing, calcination, annealing, sintering, and loss-on-ignition analysis.

KEY FEATURES

High-Temperature Capability

- Maximum temperature up to 950°C
- Continuous working temperature up to 900°C

Efficient Ceramic Fiber Insulation

High-temperature ceramic fiber wool ensures:

- Faster heat-up time
- Superior heat retention
- Reduced power consumption
- Lightweight and safer construction





UNIVERSE

Uniform Heating System

Kanthal A-1 heating elements are uniformly wound and embedded, ensuring consistent temperature distribution.

Robust Double-Walled Construction

- Outer body made of thick P.C.R.C. sheet
- Double-walled design for thermal isolation
- Powder-coated or stove enamel finish for durability

Manual Power Control System

- Energy regulator (0–100 scale) for controlled heating
- Pilot lamps for clear operational indication

Heating & Control System

Standard Configuration

- Analog energy regulator for power adjustment
- Pyrometer for temperature indication

Optional Upgrades

- Digital Temperature Controller (real-time display)
- PID Controller for high-precision temperature control ($\pm 1^{\circ}\text{C}$)

Construction & Design

Muffle Chamber

- Rectangular chamber with high-temperature stability
- Pre-baked for durability and resistance to thermal cycling

Ventilated Base Structure

- Perforated bottom for improved airflow and heat dissipation

Surface Finish

- Corrosion-resistant powder coating or stove enamel



UNIVERSE

TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	AZA1066
Maximum Temperature	950°C
Working Temperature	900°C
Heating Element	Kanthal A-1 wire
Insulation	High-temperature ceramic fiber wool
Chamber Type	Rectangular muffle chamber
Outer Body	Double-walled P.C.R.C. sheet
Finish	Powder-coated / Stove enamel
Control Type	Energy regulator (0-100 scale)
Optional Control	Digital / PID temperature controller
Power Supply	230 V AC, Single Phase

UNIVERSE