# Rectangular Muffle Furnace Industrial Model

Code: W-3097 GST: 18% Brand: AVAIN LABS














AVAIN LABS® Rectangular Muffle Furnace Industrial Model

The AVAIN LABS® Rectangular Muffle Furnace Industrial Model is a high-performance, electrically operated furnace designed for high-temperature heating applications in laboratories, research institutions, educational institutes, manufacturing facilities, and industrial environments.

Engineered for reliable and uniform heating, the furnace is suitable for applications such as heat treatment, annealing, ashing, sintering, material testing, thermal processing, and laboratory research.

The furnace features a robust outer body manufactured from high-quality Mild Steel (MS) sheet with a durable powder-coated finish, providing excellent mechanical strength and long-lasting performance.

The heating chamber is insulated using high-grade ceramic wool insulation, designed to minimize thermal loss and improve thermal efficiency. This insulation helps maintain stable temperatures while reducing unnecessary heat transfer to the outer body.

## Advanced Temperature Performance

The AVAIN LABS® Rectangular Muffle Furnace is designed for temperatures of up to 1200°C, with a recommended working temperature of up to 1100°C.

Temperature regulation is controlled through a Microprocessor PID-Based Digital Temperature Indicator cum Controller, providing accurate temperature monitoring and precise control during operation.

The PID-based controller helps maintain stable furnace temperatures and improves consistency for demanding laboratory and industrial heating processes.

## High-Quality Kanthal Wire Heating Elements

The furnace is equipped with heating elements made from Kanthal wire, a special high-temperature alloy designed for reliable operation at elevated temperatures.

The heating element configuration is designed to provide uniform distribution of heat throughout the furnace chamber, supporting consistent heating performance and reliable processing results.

## Durable Industrial Construction

The furnace body is constructed with durability and long-term industrial use in mind.

## Key Construction Features:

- Outer wall made from Mild Steel Sheet
- Durable Powder-Coated Finish
- High-Grade Ceramic Wool Insulation
- Reduced thermal loss
- Efficient heat retention
- High-temperature resistant heating system
- Robust industrial construction

## Electrical Supply

The AVAIN LABS® Rectangular Muffle Furnace can operate on:

- Voltage: 220–440 Volt
- Frequency: 50 Hz
- Power Supply: Single Phase or Three Phase

The electrical configuration can be selected according to the specific application and customer requirements.

## Product Features

? Design Temperature: Up to 1200°C? Working Temperature: Up to 1100°C? Temperature Controller: Microprocessor PID-Based Digital Temperature Indicator cum Controller? Heating Element: High-Temperature Kanthal Wire? Outer Body: Mild Steel Sheet with Powder-Coated Finish? Insulation: High-Grade Ceramic Wool? Heating Performance: Uniform Heat Distribution? Voltage: 220–440V? Frequency: 50 Hz? Phase: Single Phase or Three Phase Supply

| Available models (3) | | |
|---|---|---|
| **Cat. No.** | **Size** | **HSN** |
| W-3097-S1 | Small | |
| W-3097 | | |
| W-3097-S2 | Large | |

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