



### Product Description

The **Rectangular Muffle Furnace – High Temperature** is a compact and efficient laboratory furnace designed for **high-temperature heating applications**. It is widely used in **R&D laboratories, chemical industries, pharmaceutical units, metallurgy, and foundries**, particularly for **ashing samples for chemical analysis** and other controlled heat treatment processes.

This furnace is a **cost-effective solution** for high-temperature operations, offering reliable performance, uniform heating, and safe operation for routine and advanced laboratory work.

### Applications

- Ashing for chemical analysis
- Heat treatment of laboratory samples
- Material testing
- R&D laboratory experiments
- Chemical and pharmaceutical processes
- Metallurgical and foundry applications

### Salient Features & Construction

- **Rectangular chamber design** for efficient space utilization
- **Outer casing** made of thick **powder-coated Mild Steel**
- **Ceramic fiber wool insulation** for:
  - Lightweight construction

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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info@tesca.in  
 www.tescaglobal.com

- Reduced thermal loss
- Faster heating compared to brick insulation
- **High-grade Kanthal-type heating elements** for long service life
- **Ceramic fiber insulation** provided between outer body and heating chamber
- **Insulated door** with heavy-duty hinges for safe operation
- **Wound muffle construction** suitable for high-temperature use
- **Thermocouple fitted** for accurate temperature sensing
- **Fuse protection** for chamber safety
- **Proportioning control system** with **profile controller**
- **Digital temperature indication** for easy monitoring
- **Front panel** fitted with ON/OFF switch, controller, and indicators
- Supplied complete with **cord and plug**

#### Temperature Control

- **Rated Maximum Temperature:** Up to 1500°C
- **Rated Continuous Working Temperature:** Up to e 1450 °C
- **Control Method:** Proportioning control with profile controller
- **Heating Up Period:** Approx. **65–90 minutes**

#### Technical Specifications

| Parameter                             | Specification                                   |
|---------------------------------------|---|
| <b>Type</b>                           | Rectangular Muffle Furnace                      |
| <b>Rated Temperature (Maximum)</b>    | 1200 °C   |
| <b>Rated Temperature (Continuous)</b> | 1150 °C   |
| <b>Heating Up Time</b>                | Approx. 65 – 90 minutes                         |
| <b>Chamber Volume</b>                 | 12 Litres                                       |
| <b>Chamber Size (W × H × D)</b>       | 200 × 200 × 300 mm                              |
| <b>Heating Element</b>                | High-temperature resistance wire (Kanthal type) |
| <b>Insulation Type</b>                | Ceramic Fiber Wool                              |
| <b>Outer Body</b>                     | Powder Coated Mild Steel                        |
| <b>Control Method</b>                 | Proportioning Control with Profile Controller   |

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| Parameter            | Specification                         |
|----------------------|---------------------------------------|
| Temperature Display  | Digital Display                       |
| Thermocouple         | Provided                              |
| Safety Protection    | Fuse Protection                       |
| Accessories Supplied | Heater Element (1 Unit), Fuse (1 Set) |
| Operating Voltage    | 220 V AC, 50 Hz                       |

### Standard Scope of Supply

- Rectangular Muffle Furnace (High Temperature)
- Heater Element – 1 Unit
- Fuse Set – 1 Set
- Power Cord & Plug

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