

MUFFLE FURNACE – 1100°C

STANDARD FEATURES

- Maximum Temperature :1100°C
- Operating Temperature: 1050°C
- High accurate test results under uniform temperatures.
- Multiple zone heating as per application of customer.
- SiC/Kanthal A1 Heating Elements Used
- Display : 7 segment LED display.
- Accuracy : ±1°C.
- Advanced Refractory interior, used in combination with energy efficient low thermal mass insulation.
- Over temperature limiter with adjustable cutout temperature for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load.
- Thermocouple break protection that help preventing thermocouple failure run away.
- Power control through Solid state relay or Thyristor unit that provides low noise operation.
- Outstanding temperature uniformity inside chamber.
- Easy maintenance and operation.
- NABL certified thermocouple

MUFFLE FURNACE – 1100°C



Digiqua systems is a Laboratory Furnace manufacturer, supplier and exporter in India, Chennai. We manufacture high temperature Furnaces like Laboratory Muffle Furnace, High Temperature Muffle Furnace 1100°C, Pit Type Furnace, High Temperature Box Furnace, Horizontal Tubular Furnace, Vertical Tubular Furnace, Split Type Tubular furnace (Horizontal and Vertical) and Industrial Box furnace for wide range of laboratory and industrial applications.

TECHNICAL SPECIFICATION

CONSTRUCTION

- ❖ Grooved Muffle furnace is Double walled chamber inner made of 4 nos. of siliminite refractory slabs and outer made of cold rolled mild steel sheets finished in powder coating.
- ❖ Insulation by Ceramic fibre blankets to minimize radiation heat loss. Double walled insulated door mounted on heavy-duty hinges is provided with effective locking arrangements.
- ❖ For High Temperature Muffle furnace Heating elements will be Kanthal A1 coils suspended in the grooves of the refractory.
- ❖ The temperature inside is maintained at any desired level within the operating range by a Digital Automatic Temperature Indicator-cum- controller working in conjunction with a Cr/Al thermocouple housed in the hot zone.

TEMPERATURE CONTROL

- ❖ Pilot Indicating Lights.
- ❖ 16 Segment Prog PID Temp Controller.
- ❖ HRC Fuse units(L&T)
- ❖ Thyristor Power Control Device.
- ❖ Voltmeter (AE) , Ammeter (AE)
- ❖ Circuit Breaker
- ❖ Main Isolating Switch
- ❖ Step Down Transformer

OPTIONAL FEATURES

- ❖ Programmable PID controller with RS-232/ RS-485/ Ethernet & Data Logging software.
- ❖ Provision for vacuum/ gas purging application (Ar, N2, H2, O2, CO2, etc.) with water cooled flanges.
- ❖ Available in standard sizes and as per customer requirements.

Inner Chamber size	Power Rating kw
125 × 125 × 200 mm	6.0 Kw
150 × 150 × 300mm	6.0 Kw
200 × 200 × 300 mm	8.0 Kw 3 phase
300 × 300 × 300 mm	9.0 Kw 3 phase

ACCESSORIES

- ❖ Hand Gloves.
- ❖ Heating Element.
- ❖ Crucible.
- ❖ Tongs.



DIGIQUAL SYSTEMS

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