

Laboratory Muffle Furnace

Brand- **BIOGENIX®**



PRODUCT DESCRIPTION

BIOGENIX SYSTEMS is an Laboratory Furnace manufacturer, supplier and exporter in India, Chennai. We manufacture high temperature Furnaces like Laboratory Muffle Furnace, High Temperature Muffle Furnace 900°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.

Basic Features

Digital Muffle Furnace : comprises of an Outer chamber fabricated out of thick cold rolled mild steel sheets,

- ◆ Rectangular in shape placed horizontally with opening in the front.
- ◆ Refractory Muffle of required size forms the inner chamber.
- ◆ This is surrounded by ceramic fibre blankets on all the four sides and the rear to reduce heat losses to a minimum.
- ◆ The chamber is provided with a single door with 100mm thick ceramic fibre insulation mounted on heavy duty hinges and provided with latch.
- ◆ The Muffle furnace is heated by Kanthal A1 heating coils wound in spiral form on the muffle embedded in high grade refractory cement and backed by ceramic fibre blankets.

Control Panel

The temperature inside Muffle Furnace 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.

Control Panel: Consists of Digital PID Temperature controller, SSR, Indicating lamps, and On/off Switches. The furnace is finished in an attractive powder coat finish.



Technical Specification

Muffle Furnace – Technical Specification	
Operating Temp	Ambient 5 – 900 °C / 1000° C.
Max. Temperature	900 °C. /1100 °C
Temp Accuracy	1 % of Set Temperature
Power supply	230 volts AC, Single phase.
Furnace	Front type
Chamber Size	5(W)*5 (H) 10 (D)
Working Voltage	220 volt , single phase
Heating Element	Kanthal Heating Elements
Rating Power	3 Kw.

Application of Muffle Furnace

Muffle furnace is used for numerous applications such as:

- Fusing glass
- Creating enamel coatings
- Ceramics
- Soldering
- Brazing
- Rubbers & Polymers

Apart from these well-known applications for ash content determination, **muffle furnace** is also used in many research centers, medical laboratories to determine the non-volatile and non-combustible proportion of the sample. The testing device is also used for highly sophisticated metallurgical applications. All types of muffle furnaces work on the basis of convections, conductions, and with the electrical resistance heating elements.

BIOGENIX offers high-quality of **Muffle Furnaces** to create high temperatures inside the laboratories to determine the actual percentage of ash content in a material.

Size, Capacity and Ordering Details

MODEL	Inner Chamber size	Power Rating kw
BSME- 01	5" x 5" x 10" , Model – DQ – MF – 01	2.5 Kw
BSME- 02	6" x 6" x 12" , Model – DQ – MF – 02	3.0 Kw
BSME- 03	8" x 8" x 12" Model – DQ – MF – 03	4.0 Kw
BSME- 04	12" x 12" x 12" Model – DQ – MF – 04	5.0 Kw

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