

MUFFLE FURNACE



Descriptions:

Muffle Furnace is box type heat treatment equipment used to change physical properties of samples at very high temperature; for example 1100°C, 1200°C, 1300°C and more. These laboratory furnaces are widely used in educational experiments in physics lab, rice laboratories, steel and paint industries, biotech companies and small industrial production etc.

We are ISO and CE certified muffle furnace manufacturers and suppliers in India. We make different types of muffle furnaces for laboratory testing, annealing, ash determination, coal analysis, master batch testing, leaves carbonization and lime calcinations etc. Each furnace is made with rugged construction and fitted with easy control system and safety devices.



Our standard models of programmable muffle furnaces come with maximum temperature range 1000°C and 1400°C and their continuous working temperatures are 900°C and 1300°C respectively. For controlling of temperature, we fit microprocessor based PID controller with SV and PV display. Heating chamber is made with ceramic fibre board and exterior is made with powder coated mild steel.

Standard Feature

Custom Design: With the help of our engineers we can modify our standard models in order to match required compliance level. Our scope of customization includes MOC, Control system, chamber size, data recording etc.

Availability: Available in 1000°C and 1400°C temperature.

Controller: Programmable temperature controller

Construction life: Rugged construction for long run

Safety: Fitted with safety devices

Accuracy: Uniform heating rate

Specifications

Temperature Range	1000°C	1200°C
Continuous operating temp.	900°C	1100°C
Heating element	Kanthal wire	Silicon carbide (Sic) rods
Thermocouple	K Type	R type
Inner MOC	Ceramic fibre board	Ceramic Zirconium board
Exterior MOC	Power coated GPSP Sheet	Power coated GPSP Sheet
Insulation	Ceramic fibre blanket	Ceramic fibre blanket
Temperature controller	PID controller with SCR power control	PID controller with SCR power control
Power supply	220 Volts 50Hz	3 Phase 440 Volts 50Hz (Step down transformer)
Accessories	One pair of furnace gloves One crucible steel tong	One pair of furnace gloves One crucible steel tong

Optional	Exterior made of SS 304 (GMP model) 30 Segment Programmable controller for heat rate PLC with Colour HMI (data logging & USB Interface) Calibration certificate Door safety switch Ceramic bottom plate Caster wheels with brake	Exterior made of SS 304 (GMP model) 30 Segment Programmable controller for heat rate PLC with Colour HMI (data logging & USB Interface) Calibration certificate Door safety switch Ceramic bottom plate Caster wheels with brake
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MODEL FOR MUFFLE FURNACE 1000°C	Chamber Size (inch)	Inner Chamber size (mm)	Volume (Liters)
RDB-MF102	4 x 4 x 9	100 x 100 x 225	2 liters
RDB-MF104	5 x 5 x 10	125 x 125 x 250	4 liters
RDB-MF105	5 x 5 x 12	125 x 125 x 300	5 liters
RDB-MF107	6 x 6 x 12	150 x 150 x 300	7 liters
RDB-MF1012	8 x 8 x 12	200 x 200 x 300	12 liters
RDB-MF1019	8 x 8 x 18	200 x 200 x 457	19 liters
RDB-MF1028	12 x 12 x 12	300 x 300 x 300	28 liters
RDB-MF1042	12 x 12 x 18	300 x 300 x 457	42 liters
RDB-MF1056	12 x 12 x 24	300 x 300 x 609	56 liters

MODEL FOR MUFFLE FURNACE 1400°C	Chamber Size (inch)	Inner Chamber size (mm)	Volume (Liters)
RDB-MF102	4 x 4 x 9	100 x 100 x 225	2 liters
RDB-MF104	5 x 5 x 10	125 x 125 x 250	4 liters
RDB-MF105	5 x 5 x 12	125 x 125 x 300	5 liters
RDB-MF107	6 x 6 x 12	150 x 150 x 300	7 liters
RDB-MF1012	8 x 8 x 12	200 x 200 x 300	12 liters
RDB-MF1019	8 x 8 x 18	200 x 200 x 457	19 liters
RDB-MF1028	12 x 12 x 12	300 x 300 x 300	28 liters
RDB-MF1042	12 x 12 x 18	300 x 300 x 457	42 liters
RDB-MF1056	12 x 12 x 24	300 x 300 x 609	56 liters