

Laboratory Muffle Furnace

IG-MF series



IGENE LABSERVE

Innovative • Interactive • Intuitive

FEATURES & SPECIFICATIONS

DESCRIPTION

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 fiber board and exterior is made with powder coated mild steel.

FEATURES

- ❖ Available in 1000°C and 1400°C temperature.
- ❖ Programmable temperature controller.
- ❖ Rugged construction for long run.
- ❖ Fitted with safety devices.
- ❖ Uniform heating rate.



SPECIFICATIONS

Max temperature	1000°C	1400°C
Continuous operating temp.	900°C	1300°C
Heating element	Kanthal wire	Silicon carbide (Sic) rods
Thermocouple	K Type	R Type
Chamber MOC	Ceramic fiber board	Ceramic Zirconium board
Exterior MOC	Mild steel powder coated	Mild steel powder coated
Insulation	Ceramic fiber blanket	Ceramic fiber 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	
Optional	Exterior made of SS 304 (GMP model) 30 Segment Programmable controllers for heat rate PLC with Color HMI (data logging & USB Interface) Calibration certificate Door safety switch Ceramic bottom plate Caster wheels with brake	



MUFFLE FURNACE 1000°C

Model	Chamber Size (inch)	Chamber Size (mm)	Volume (Liters)
MF-IG92	4 x 4 x 9	100 x 100 x 225	2 liters
MF-IG94	5 x 5 x 10	125 x 125 x 250	4 liters
MF-IG95	5 x 5 x 12	125 x 125 x 300	5 liters
MF-IG97	6 x 6 x 12	150 x 150 x 300	7 liters
MF-IG912	8 x 8 x 12	200 x 200 x 300	12 liters
MF-IG919	8 x 8 x 18	200 x 200 x 457	19 liters
MF-IG928	12 x 12 x 12	300 x 300 x 300	28 liters
MF-IG942	12 x 12 x 18	300 x 300 x 457	42 liters
MF-IG956	12 x 12 x 24	300 x 300 x 609	56 liters

MUFFLE FURNACE 1400°C

Model	Chamber Size (inch)	Chamber Size (mm)	Volume (Liters)
MF-IG132	4 x 4 x 9	100 x 100 x 225	2 liters
MF-IG134	5 x 5 x 10	125 x 125 x 250	4 liters
MF-IG135	5 x 5 x 12	125 x 125 x 300	5 liters
MF-IG137	6 x 6 x 12	150 x 150 x 300	7 liters
MF-IG1312	8 x 8 x 12	200 x 200 x 300	12 liters
MF-IG1319	8 x 8 x 18	200 x 200 x 457	19 liters
MF-IG1328	12 x 12 x 12	300 x 300 x 300	28 liters
MF-IG1342	12 x 12 x 18	300 x 300 x 457	42 liters

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.