



Available Variants

High Temperature Furnace – 9" × 4" × 4"

High Temperature Furnace – 10" × 5" × 5"

High Temperature Furnace – 12" × 6" × 6"

High Temperature Furnace – 12" × 8" × 8"

High Temperature Furnace – 18" × 9" × 9"

Description

The High Temperature Furnace is designed for high-temperature heat treatment, sintering, calcination, annealing, material testing, and research applications. The furnace provides precise temperature control up to 1400°C with excellent temperature uniformity and long service life. It is suitable for laboratories, research institutes, universities, metallurgy, ceramics, refractory, glass, mining, chemical, and material testing industries. Multiple chamber sizes are available to meet different laboratory and industrial requirements.

Construction Features

Heavy-duty box-type construction fabricated from mild steel.

Exterior finished with durable powder coating for corrosion resistance.

Attractive industrial design with separate heating chamber and control panel.

High-alumina refractory hot-face lining.

Multi-layer ceramic fibre insulation for minimum heat loss and low outer surface temperature.

Heavy-duty insulated swing-type insert door.

Compact tabletop or floor-standing design depending on model.

Heating System

Silicon Carbide (SiC) heating elements mounted on both sides for uniform heat distribution.

Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,
Near Gujarat College, Ellisbridge,
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Phone : (079) 6621 1234
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Calibration Laboratory:

Survey No. 1098, Nr. Mahakali Temple,
Opp. Primary School, Village Kubadthal,
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GST TIN No. : 24AABCE4018L1ZU
I.T. PAN No. : AABCE 4018L
IEC No. : 0813026598 Dt. 04/03/2014
CIN No. : U29199GJ2004PTC045078
TAN No. : AHME00572F



Symmetrical heating arrangement ensures consistent chamber temperature.

Thyristor-based power control for stable heating performance.

Designed for continuous high-temperature operation.

Control System

Microprocessor-based PID temperature controller/programmer.

Digital temperature indication.

Automatic PID temperature control.

R-Type (Pt-Rh13% / Pt) thermocouple.

Thyristor power control system.

Mains ON and Output ON switches.

Mains, Output and Power indication lamps.

Ampere meter for load indication.

Built-in over-temperature safety cut-off.

Technical Specifications

Parameter	Specification
Maximum Temperature	1400°C
Continuous Working Temperature	Up to 1350°C
Temperature Controller	Microprocessor-based PID Programmer/Controller
Temperature Sensor	R-Type Thermocouple
Temperature Accuracy	±2°C to ±5°C (depending on model)
Temperature Resolution	1°C

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Parameter	Specification
Heating Elements	Silicon Carbide (SiC) Heating Elements
Heating Arrangement	Double-sided symmetrical heating
Power Control	Thyristor System
Furnace Construction	Mild Steel body with powder-coated finish
Refractory	High Alumina refractory with ceramic fibre insulation
Door Type	Insulated insert-type swing door
Power Supply	Single Phase or Three Phase depending on model
Chamber Size	Available in multiple chamber sizes
Chamber Volume	Varies according to selected model
Power Rating	Varies according to selected model
Overall Dimensions	Vary according to selected model
Weight	Varies according to selected model

Standard Accessories

R-Type Thermocouple
Silicon Carbide Heating Elements
PID Temperature Controller
Thyristor Power Controller
Ampere Meter
Indicator Lamps
User Manual

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Optional Accessories

Hour Meter

Over Temperature Protection with Audio Alarm

Data Logger with Software

Multi-point Recorder

Safety Door Switch

Programmable Profile Controller (16 Programs × 16 Segments)

Additional Thermocouple

Calibration Certificate

Applications

Suitable for:

Heat Treatment

Sintering

Calcination

Annealing

Ceramic Testing

Refractory Testing

Glass Industry

Metallurgical Laboratories

Material Research

Universities & Research Institutes

Industrial Quality Control

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Optional Consumables

Available at additional cost:

Silica Crucible with Lid

Quartz Crucible with Lid

Platinum Crucible with Lid

Crucible Tong

High Temperature Protective Gloves

Electronic Weighing Balance

Notes

Furnace specifications may vary depending on the selected chamber size.

Chamber volume, power rating, power supply, overall dimensions, and weight are model dependent.

Specifications are subject to change without prior notice as part of continuous product improvement.

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