



## FURNACE

### CI BRIDGEMAN'S FURNACE

**CODE:12015-30**

Bridgeman Furnace is a Vertical Tripple Zone furnace, with 99% pure alumina tube. With 80-85mm ID tube and total length 700mm. Outer made of CR sheet Powder,coated. Temperature max. upto 1200°C. Other Sizes as per requirement.

### SPECIFICATIONS

- \* Dual Heating Zone of 250mm each
- \* Cold zone in center of 50mm.
- \* 99% pure Alumina tube of 80-85dia ID x 700mm length.
- \* Vertical Furnace, with both sides open.
- \* Ceramic end caps to close the tube ends as and when required\*  
Max. Working temp. 1150°C
- \* Temperature sensors of 'S' Type thermocouples.
- \* Outer body made of CR sheet Powder coated
- \* Heating by Silicone Carbide heaters of suitable capacity.  
with all necessary clamps and fittings.
- \* The Vertical movement of the sample is driven by a  
High precision motor with fine screw rod train.
- \* The movement will be vibration free across the entire operating  
range
- \* The speed can be varied from 0.1mm/min. to 10mm/min. and  
stroke length from 1mm to full length.
- \* Seperate control unit with 2 independant multi-step profile  
temperature controllers.
- \* Movement control by an independent controller with continuos  
display of speed, stroke, run time and remaining time.
- \* Provision to integrate the entire operation through a PC (Optional)
- \* Operation on 440V, 3 Phase, 50Hz.only.

### SAFETY FEATURES

- \* It has safety features like:Home and end sensors for movement.
- \* VAF meter to monitor voltage, current and frequency for heater life monitoring.
- \* Automatic Heater cutoff on sensor failure
- \* 1 Phase preventor.
- \* Hot or cold run option.

### REQUIREMENTS

- \* Industrial Socket **OR** 4 POLE MCB 64 Amps rating

### OPTIONAL ACCESSORIES (AT EXTRA COST)

- \* Spare Ceramic Board end caps
- \* Spare Thermocouple
- \* Spare 99% Alumina Tube
- \* Spare heating elements (Set of 4 elements)
- \* Data Logger



# FURNACE

## OTHER MODELS

- \* ROCKING FURNACE
- \* CRYSTAL GROWTH FURNACE
- \* QUENCHING FURNACE
- \* THREE ZONE FURNACE
- \* LOW TEMPERATURE FURNACE

## OPTIONAL ACCESSORIES / FEATURES

- \* Variable Power drive / Thyristor Drive
- \* Digital Voltage & Current indicator (VAF METER)
- \* High Set safety cutoff
- \* Profiling temperature Control
- \* Digital Timer
- \* Inert gas flow arrangement
- \* Vacuum System for tubular furnaces only
- \* Alumina Tubes
- \* Alumina Boats
- \* Quartz tube
- \* Ceramic Boats
- \* Ceramic Crucibles
- \* Silica Crucible
- \* Platinum Crucible
- \* Silicon Carbide heating elements
- \* Ceramic wool
- \* Ceramic plugs
- \* Data Loggers
- \* Thermocouples



**ROCKING FURNACE**



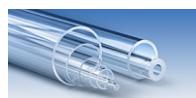
**QUENCHING FURNACE**



**LOW TEMP. FURNACE**



Silica / Platinum crucible



Quartz Tube



Ceramic Tube



Alumina Boat