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Sandy scientific Instrument & Co

(Mfg. Scientific Laboratory Products & Services)

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INDIA)

QUOTATION FOR HIGH TEMPERATURE FURNACE (1400 DEGREE)

HIGH TEMPERATURE FURNACE - BOX TYPE WITH MICROPROCESSOR BASED
DIGITAL TEMPERATURE INDICATING CUM CONTROLLER (DUAL DISPLAY SV –
PV) WITH PT-PT 13% Rh THERMOCOUPLE

SPECIFICATION:

TYPE Horizontal, Box type furnace, with opening in the front, low Thermal Mass Model, electrically operated.

OPERATING TEMPERATURE: Continuous operating temperature as per your requirement up to 1350°C.

OUTER CHAMBER: It is triple walled construction, inner made of High temperature withstanding vacuum board and middle chamber, outer chamber Fabricated from thick gauge (20 SWG) mild steel sheet sections with necessary reinforcement for mechanical rigidity.

DOOR Front opening provided with heavy duty hinged door for effortless opening and closing of the chamber

PAINTING: The complete unit finished with heat resistant attractive color powder Coated paint.

INNER CHAMBER: Hot face chamber with supporting insulation at the bottom to be lined with low-density high temperature resistant bricks, so as to keep the specimen to be heated hot face chamber and two sides & top using high density vacuum board with supporting insulation on rest of the sides be lined from heavy duty high temperature resistant low thermal mass Ceramic Blanket

MODE OF HEATING: By Silicon Carbide Heating Rods, Hot zone housing a Platinum 13% Rhodium Platinum Thermocouple to act as sensor

WORKING CHAMBER SIZE	:	
MAXIMUM TEMPERATURE	:	1400°C
CONT. (MAXIMUM) OPERATING TEMPERATURE	:	1350°C

TEMPERATURE CONTROL: By Microprocessor PID controlled Digital Temperature Indicating cum Controller using 16 segment program to achieved steady time and temperature as per our requirement.....

ACCURACY: $\pm 1^{\circ}\text{C}$ or even better sensor R or S type PT-PT 13% Rh Platinum Thermocouple
CONTROL PANEL: Control panel provided with side of the furnace with the following temp. Control and electrical accessories:-

- Microprocessor based PID controlled Programmable Digital Temperature Indicating cum controller 1 no.
- R/S type Pt-Pt 13% Rh Platinum Thermocouple 1 No.
- Electronic Thyristor 3 Phase 1 No Or single phase Thyristor
- Mains indicating lamp 3 Nos.
- Mains ON/OFF switches (MCB) 1 No.
- Heater indicating lamp 1 No.
- Heater ON/OFF switches 1no.
- The outer chamber using perforated sheet to avoid skin temperature

OPERATING VOLTAGE: 220v, 1 Ph, 50 Hz, AC supply Or 440 v supply depend on the size.

Sl.No	Inner chamber size	Power rating:
1.	100 X 100 X 225mm(4" X 4" X 9")	3.0Kw
2.	125 X 125 X 250 mm(5" X 5" X 10")	3.5Kw
3.	150 X 150 X 300 mm (6" X 6" X 12")	4.0Kw
4.	200 X 200 X 300(8" X 8" X 12")	5.0Kw
5.	300 X 300 X 300(12" X 12" X 12")	6.0Kw



