

TSL

Scientific Instrument Private Limited

MUFFLE FURNACE

The unit is specially designed to meet the requirements of high Temperature. The basic unit is made of S.S, reinforced with iron angles duly powder coated Paint. The chamber made of ceramic Zirconium Board and elements are placed Horizontally in the chamber. Heating is done by silicon carbide Rods duly Controlled by accurate step down transformer (Air cooled). The furnace Has outstanding Temperature reliability and has large surface. Thermal Efficiency and power consumption. Control panel is fitted with Digital Temperature Indicator cum Controller. & provided separately Having Ammeter and Volt Meter etc. temp range 1400 °C &Temp Accuracy 1 DegC To work on 220 volts Single Phase AC supply. With PID Controller



• APPLICATION

- Triple walled with outer casing and inner wall made of double walled thick P.C.R.C. sheet, duly painted.
- Heating elements are made of KANTHAL wire backed by cerwool insulation.
- A viewing cap is also provided on the door.
- With the distinguished Autotune Digital PID controller, it provides precise control of temperature.
- Available in three different working ranges with maximum working temperature range upto 11500C.
- Light weight with ceramic fibre wool insulation.

• KEY FEATURES

- Inner made of Stainless Steel and outer made of (mild steel) Electro galvanized steel Duly Powder Coated Sheet enamel painted.
- Drain Valve facilitates easy cleaning of the chamber.
- Gasket is made of neoprene.
- All internal joints are argon arc welded.
- Piezostat (Pressure Control Switch & Low water Level Cut Off system for general safety of the element are available at an extra cost. (OPTION)
- Operating range from 15psi to 20 psi pressure
- Heaters cover stand and bucket are made of Stainless Steel Sheet.
- Lid is made of Electro galvanized steel Duly Powder Coated plate lined with stainless steel from inside
- Supporting Ring & Legs are made of Electro galvanized steel Duly Powder Coated duly enamel painted.
- Lid is fitted with Pressure Gauge, Spring Loaded Safety Valve, Manual Exhaust Valve and water level indicator.

MODEL	TSL-MF-1-900	TSL-MF-2-900	TSL-MF-3-900	TSL-MF-4-900
INTERNAL WOKZONE				
DIEMNSIONS (WxDxH) (mm)	100x100x225	125x125x300	150x150x300	200x200x300
WORKING TEMPERATURE	900°C	900°C	900°C	9000C
POWER CONSUMPTION (Approx.)	1.5 KW	2.0 KW	3.0 KW	4.0 KW
MODEL	TSL-MF-5-900	TSL-MF-6-900	TSL-MF-7-900	TSL-MF-8-900
INTERNAL WOKZONE				
DIEMNSIONS (WxDxH) (mm)	175X175X475	300X300X300	300X300X455	300X300X605
WORKING TEMPERATURE	900°C	900°C	900°C	900°C
POWER CONSUMPTION (Approx.)	4.5 KW	7.5 KW	12.00 KW	12.00 KW
MUFFLE FURNACE WITH WORKING TEMPERATURE 11500C				
MODEL	TSL-MF-5-1150	TSL-MF-6-1150	TSL-MF-7-1150	TSL-MF-8-1150
INTERNAL WOKZONE				
DIEMNSIONS (WxDxH) (mm)	100x100x225	125x125x300	150x150x300	200x200x300
WORKING TEMPERATURE	11500C	11500C	11500C	11500C
POWER CONSUMPTION (Approx.)	2.5 KW	2.5 KW	3.5 KW	4.5 KW
MODEL	TSL-MF-5-1150	TSL-MF-6-1150	TSL-MF-7-1150	TSL-MF-8-1150
INTERNAL WOKZONE				
DIEMNSIONS (WxDxH) (mm)	175X175X475	300X300X300	300X300X455	300X300X605
WORKING TEMPERATURE	11500C	11500C	11500C	11500C
POWER CONSUMPTION (Approx.)	6.0 KW	7.5 KW	12.00 KW	12.00 KW

OPTIONS:

- MICROPROCESSOR BASED SEMI AUTOMATIC PID DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER with an in-built DIGITAL TIMER to control the temperature for Ambient +50C to 1000C. Once the unit is switched 'ON' heating starts automatically and once the set/desired value is achieved the in built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, thus alerting the user that process is complete.

- Profile Digital Microcontroller having 2 PROGRAMMES each of 8 steps (total 16 steps of ramp/soak profile) to cost extra for soft start to heaters which prolongs/enhances.
- Microprocessor based controller (compact single box PLC-HMI) with time and temperature programmable by user and 7 segment LED interface has 3 display (3+4+4) digit + 5 keys having accurate sensor, enabling precise & accurate monitoring with digital input 6 PNP-11 to 30 VDC and analog input with RTD 0-10V, 0-29 (user selection) & 4 relay digital output and 1 CH (0-10V) 0-20ma Analogue output and with a double - tier password data security lock for data security.
- -do- same as above but with 7 segment LCD interface instead of LED interface



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ISO 9001:2015

IEC 61010-1/ IEC 61326-1 Electrical Equipment Package & 2006/95/EC Low

Customize able as per customer requirement