

**MAC**

# HIGH TEMPERATURE HEAT TREATMENT FURNACE



**MSW-253**

[www.macroscientificworks.com](http://www.macroscientificworks.com)

# Images for reference purpose only, may change according to model & size



- ♦ Most useful where high temperature curing is required with maximum temperature upto 1450°C and working temperature range upto 1400°C.
- ♦ Fitted with Microprocessor Based Digital Temperature Indicator-cum-controller.
- ♦ Silicon-carbide heating elements are fitted for uniform temperature inside the chamber.
- ♦ Body mounted on a heavy M.S. frame covered with CRC Sheet duly powder coated.
- ♦ Fitted with chamber made of CUMILAG tiles exhibit unique combination of chemical, mechanical stability and insulating properties.
- ♦ These are suitable for applications at high service temperatures.
- ♦ Bubble alumina range of insulating refractories are of light weight, have good load bearing capacity, and low heat capacity.
- ♦ These can be directly exposed to flame, and combustion products.
- ♦ Our furnaces have some very unique features :
  - ♦ Very high refractoriness, structural strength
  - ♦ Low thermal conductivity, shrinkage and creep.
  - ♦ High resistance to reducing atmosphere and Uniform pore size.
  - ♦ Distribution and Control through a phase angle control THYRISTORISED Power Drive with Soft Start in lieu of Manual Control System, and a multitap solid state step down transformer.

#### WITH WORKING TEMPERATURE 1400°C

MODEL	#HTMF-253(MP)
CAPACITY	7 Ltrs.
HEATING CHAMBER (WXDXH)	150x150x300 mm
TEMPERATURE RANGE	1450°C Maximum, Working Upto 1400°C
TEMPERATURE CONTROLLER CUM INDICATOR	Microprocessor Digital PID Temperature Indicator-cum-Controller
THYRISTON POWER DRIVE	Phase Angle Control Thyristor Power Drive. Along with voltage/current control and limit facility
THERMOCOUPLE	Input Sensor:- Pt.Pt./Rh 30% Type "R" with Recrystallized alumina sheath & connecting holder complete set
THERMAL INSULATION	SUPER REFRACTORY and FIBROUS CERAMIC of appropriate grade and low heat capacity.
CONSTRUCTION	(Floor Model Type) Rugged body; height of the door from the floor is approx 4.5 feet with steel stand. Swing aside door, manually operated front side of the furnace.
COOLING FAN /AIR CIRCULATION	Attached with Furnace, Provided inside the control unit to protect COSTLY COMPONENT
ELECTRIC SUPPLY	Input Supply 230V AC, 50Hz

#### OPTIONS

- Profile controller with ramp and soak profiles with multiple programmes and steps, in lieu of standard controller.
- With TFT touchscreen display controller, in lieu of standard to cost extra.

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