

MICROWAVE FURNACE 1600°C

MODEL : MLB/MF-1600

SHELL CONSTRUCTION

High quality fabrication of M.S.Body and M.S. Angle's structure with proper stiffeners and neat powder coat painting and main chamber made out of Stainless steel (316 grade)

SPECIAL FEATURES

- Rotating ceramic base
- Door interlock switch : limit switch
- Programming of PID -4 programs, 8 segments in each
- Microwave inlet port (waveguide) WR-340 -1 No
- Vacuum and Gas Purging facility (optional)
- Quartz tube (20 mm dia) controlled atmosphere setup (optional)



TECHNICAL SPECIFICATIONS

Furnace panel box	Control panel box coupled with furnace bottom
Insulation	Insulation board imported from Zircar, USA
Number of susceptor	Ten numbers
SS Chamber size	300 x 300 x 300 mm
Susceptor cavity size	≈75 x 75 x 75 mm
Size of the sample	Less than 50 mm in all dimensions (maximum)
HEATING SYSTEM	
Heating system	Microwave by magnetron
Power rating	2.45GHz with 1.1KW each x 4 numbers
Operation	Single phase / AC
Power out put	Two magnetrons with total ≈ 2.2Kw x 2 set (one set will work at time and using timer automatically shifted to another set for continuous operation)
Maximum temperature	1600°C (Max)
Normal working temp	1500°C
Rate of heating	10 to 25°C/ minute (Max) (programmable)
CONTROL SYSTEM	
Temperature control	Eurotherm Microprocessor based PID Programmer cum Digital Temperature Indicator (Model 3216 or 2416).
Temperature sensor	Imported non contact infrared sensor
Temperature accuracy	±1°C at soaking
Control switches	Mains on, out put on
Safety	Input, output fuses
Quality Marking	ISO and CE certified product