

Description

Microwave Furnaces represent a system that combines free radiating heating elements with a microwaves field. Key advantages include greater energy efficiency, faster sample heating, more uniform heating and improved material properties.

Furnace Structure

- 1. Furnace Outer Shell** : 620 x 610 x 1380 mm
- 2. 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 grades)
- 3. Furnace Panel Box** : Control panel box coupled with furnace bottom
- 4. Insulation** : Imported Insulation board
- 5. SS Chamber size** : 150 x 150 x 150 mm
- 6. Susceptor Cavity Size** : Customized
- 7. Size of the Sample** : Customized
- 8. Fittings** : Stainless steel fittings (pipe lines and needle valves and purging facility and vacuum dial gauge will be provided for controlled atmosphere as per customer requirement.

Control System

- 1. Temperature control** : Eurotherm Micro processor based PID programmer cum Digital Temperature Indicator
- 2. Temperature sensor** : Non contact infrared sensor (Pyrometer)
- 3. Temperature accuracy** : $\pm 2^{\circ}\text{C}$ at soaking
- 4. Control switches** : Mains on, out put on
- 5. Safety** : Input, output fuses



Product Details

- ✓ **Chamber Size** : 150 x 150 x 150 mm
- ✓ **Susceptor Cavity Size** : Customized
- ✓ **Size Of The Sample** : Customized
- ✓ **Heating System** : Microwave by magnetron
- ✓ **Maximum Temperature** : 1200°C (Optional 1600°C)

Heating System

- 1. Heating system** : Microwave by magnetron
- 2. Power rating** : 2.45GHz with 900W each x 2 numbers
- 3. Operation** : Single phase / AC
- 4. Power output** : Two magnetrons with total 1.8KW
- 5. Rate of heating** : Programmable