

## THREE ZONE TUBE FURNACE

### MODEL : MTZ - 12 / MTZ - 14

#### TECHNICAL SPECIFICATIONS

The Three Zone Tube Furnace offers excellent temp. uniformity as the heated length is divided into three zones, each with its own temp. controller and thermocouple. This system provides a longer uniform zone temp. than that achieved by using a single zone furnace.

**CONSTRUCTION :** The furnace is table mounted. The tubular furnace is opened at both ends, suitable to accommodate a tube of 65mm outer dia. The furnace is made of KANTHAL A1 modules, with elements embedded into the periphery, and are virtually free radiating.

**HOT ZONE :** The furnace has 3 zones, All zones are of length Ø225 mm. At the ends, the diameter of the opening is Ø65 mm to accommodate the quartz / alumina tube. Overall length of furnace 950 mm (approx.)

**MTZ-12 : MAXIMUM TEMP :** Upto 1200°C., Working Temp. 1100°C.

**MTZ-14 : MAXIMUM TEMP :** Upto 1400°C., Working Temp. 1350°C.

**TEMP CONTROLLER :** Each zone temp, is controlled by Seperate Programmable temp. Controllers. (1 Program x 16 steps)

**POWER :** 9KW Approx., 3 Phase, AC Supply.

**SIZE :** Overall length = 950mm, Dia = 65mm

with Quartz Tube / Alumina Tube (Size : OD=65mm / Length=1200mm) & Stainless Steel high vacuum flanges for maintaining vacuum of  $10^{-2}$  torr at room temperature in tube & for gas purging.



MODEL : MTZ-12

#### OPTIONAL :

Data logger to store data upto 1 Lakh records, the data can be download in pen drive and viewed on PC in excel sheet.

## ROCKING TUBE FURNACE

### MODEL : MRF-11P / 14P

#### TECHNICAL SPECIFICATIONS

MODEL	MRF-11P	MRF-14P
Maximum Temp.	1150°C	1400°C
Working Temp.	1000°C	1350°C
Temp. Accuracy	+ 1°C	+ 1°C
Heating Elements	Kanthal - A1 wire, Coil type wound on the tube.	Silicon Carbide Heating Rods
Tube	Alumina.	Alumina.
Tube Diameter	40mm	40mm
External Diameter of Furnace	250mm	400mm
Overall Length	400mm	600mm
Hot Zone Length	200mm	200mm
Rocking Angle	+ 30°	+ 30°
Insulation	Ceramic Fibre	Ceramic Fibre
Temp. Control	Microprocessor based Programmable (1 prog. x 16 segments) Temp. Controller, with ramp and soak segments. Dual display of Set & Actual Temp. with soft touch keys. With Thermocouple break protections & Cold junction compensation.	
Sensor	Cr / AL	Pt / Pt-Rh
Safety	Over current and Short Circuit Protection. Thermocouple break alarm. High Temp. alarm.	
Power Control	SSR Unit	Thyristor Control Unit
Power Supply	220V, 50Hz Single Phase AC only.	



MODEL : MRF-11P

#### OPTIONAL :

Data logger to store data upto 1 Lakh records, the data can be download in pen drive and viewed on PC in excel sheet.