

## Laboratory Furnaces

### STANDARD FEATURES

- Max. Operating Temperature: 1200 °C.
- Low thermal mass insulation for rapid response rates and maximum thermal efficiency and stability.
- Display : 7 segment LED display.
- Accuracy :  $\pm 1^{\circ}\text{C}$ .
- Over temperature limiter with adjustable cutout temperature for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load.
- Thermocouple breaks protection that helps preventing thermocouple failure run away.
- Power control through Solid state relay or Thyristor unit that provides low noise operation.
- Easy maintenance and operation.
- NABL certified thermocouple.

## SPLIT TUBE FURNACE



Tempsens Split Tube Furnace has a horizontal oriented chamber with a furnace body that splits into two halves. Ability to open furnace facilitates the operator to change the working tube easily and insets vessels like reactors with flanges which is not possible in non split type furnaces. Working tubes can be easily changed to make the furnace work with variety of tube diameters. Optional features allows user to modify working environment to vacuum or particular gas surrounding (inert gas).

Tempsens Split Tube Furnace comes with single heating zone to multiple heating zones that incorporate gradient heating. Tempsens is ISO and CE certified Laboratory & Industrial furnace manufacturers and suppliers

### TECHNICAL SPECIFICATION

#### CONSTRUCTION

- Powder coated 1.6 mm Mild Steel cabinet / 304 Grade Stainless Steel (Optional).
- Furnace heating element is not wound on working tube which allows easy replacement of working tube and higher continuous working temperature.
- Low thermal mass insulation for rapid response rates and maximum thermal efficiency and stability.
- Double shell case with cooling fan to keep skin temperature low.

## HEATING ELEMENTS

- Voltage : 220V; Power: 2kW; Frequency: 50-60 Hz
- Heating is provided by all surrounding free radiating elements manufactured from original Swedish Kanthal high temperature resistance wire spirals supported on recrystallized Alumina tubes for optimum uniformity.
- Element brand – KANTHAL A1.

## TEMPERATURE CONTROL

- Electronic/ Automatic Control.
- Temperature sensing through K type thermocouple.
- NABL certified thermocouple.
- Equipped with thermocouples break protection that help prevent thermocouple failure run away.

## OPTIONAL FEATURES

- Programmable PID controller with RS-232/ RS-485/ Ethernet & Data Logging software.
- Provision for vacuum/ gas purging application (Ar, N2, H2, O2, CO2, etc.).
- Single zone uniform heating to multiple zone gradient heating.

## ACCESSORIES

- Vacuum pump and related accessories.
- Ceramic insulation plugs.
- Gas nozzle (inlet/outlet).
- Vacuum flange.