

# Data Sheet

## Model: TSH16/50/450

1600 °C Maximum Temperature,  
Single Zone Horizontal Tube Furnace

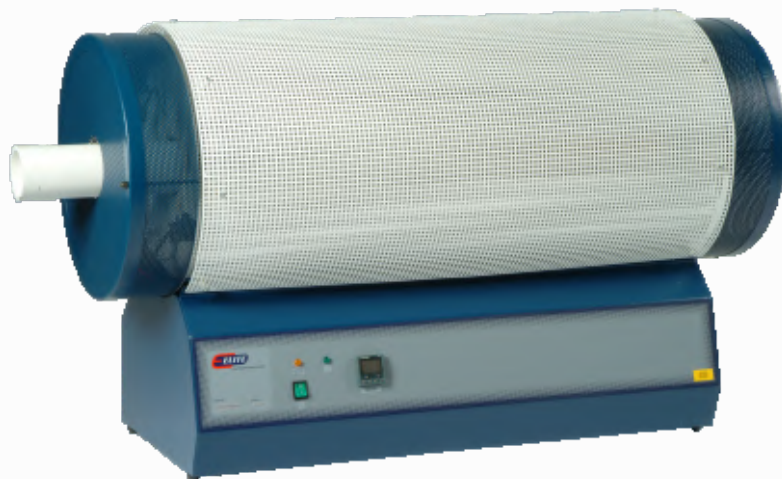


### INTRODUCTION

The TSH16 furnace is a bench mounted tube furnace ideal for most general laboratory thermal processing applications.

The TSH16/50 Single Zone Tube furnace can accept a work tube with internal tube diameter of 50 mm. TSH16/50 range offers a choice of three heated zone lengths of 180 mm, 450 mm & 610 mm.

TSH16/50/450 comes with a heated zone length of 450 mm.



### TSH16/50/450

### SPECIFICATIONS

**Maximum Temperature:** 1600 °C

**Maximum Continuous Temperature:** 1600 °C

| These models are heated by axially mounted silicon carbide elements around the work tube for fast heat up and excellent temperature uniformity.

| This furnace design requires the use of a separate work tube of a grade suitable for the maximum temperature rating of 1600 °C.

| A work tube is not supplied as an integral part of the furnace and therefore needs to be ordered with the furnace as it is an essential accessory.

| Temperature Sensor: 'R' type Thermocouple.

| Energy efficient, high quality, low thermal mass insulation.

| High end Microprocessor PID controller.

| Horizontal models are supplied as standard with controls in the base.

| **External Dimensions (mm):** H x W x D    **Net Wt.**  
(Nominal) TSH16/50/450    715 x 1000 x 460    70 kg

| Supply: 400V– 3 Phase – 50/60Hz

| Energy rating: 5.0 kW (Average)  
33.0 kW (Peak)

### OPTIONAL FEATURES

| Work tubes of various materials, lengths and diameters for use in the furnace.

| The work tubes are available for containment of atmosphere or protection against process contaminants.

| A variety of triple flange gas tight end seals for work tubes to allow processing under vacuum or gas atmospheres.

| Multi segment, multi program storage controllers.

| Over temperature protection controller.

| Thermal Radiation Plugs.

**Vertical versions are available which have a separate console**

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