

# Data Sheet

## Model: TSH16/50/610

1600 °C Maximum Temperature,  
Single Zone Horizontal Tube Furnace

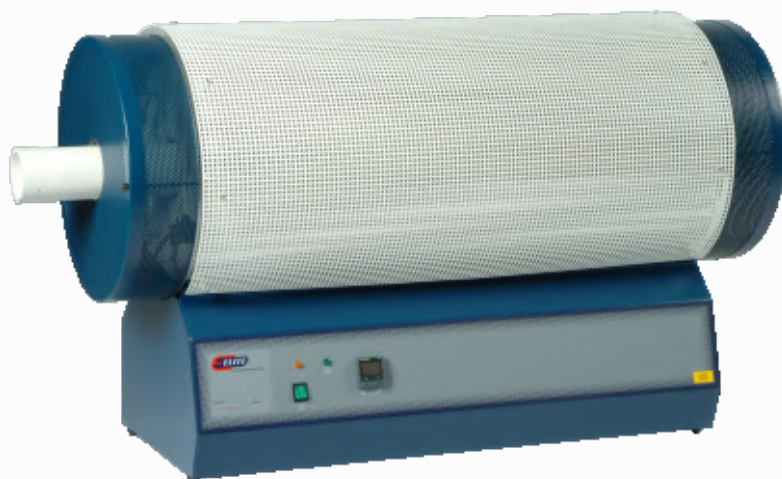


### INTRODUCTION

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.

TSH16/50/610 comes with a heated zone length of 610 mm.



### TSH16/50/610

### 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) TSH16/50/610    825 x 1150 x 562    75 kg

- | Supply: 400V– 3 Phase – 50/60Hz
- | Energy rating: 7.0 kW (Average)  
29.0 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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