

# Data Sheet

## Model: TSH18/75/600

1800 °C Maximum Temperature,  
Single Zone Horizontal Tube Furnace



### INTRODUCTION

The TSH18 furnace is a floor mounted tube furnace ideal for most general laboratory thermal processing applications.

The TSH18/75 Single Zone Tube furnace can accept a work tube with internal tube diameter of 75 mm. TSH18/75 range offers a choice of three heated zone lengths of 300 mm, 450 mm, and 600mm.

TSH18/75/600 comes with a heated zone length of 600 mm.

### SPECIFICATIONS

**Maximum Temperature:** 1800 °C

**Maximum Continuous Temperature:** 1800 °C

- | These models are heated on both sides of the chamber by molybdenum Tungsten Disilicide elements.
- | This furnace design requires the use of a separate work tube of a grade suitable for the maximum temperature rating of 1800 °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: 'B' type Thermocouple.
- | Energy efficient, high quality, low thermal mass insulation.
- | High end Microprocessor PID controller.
- | Over temperature protection controller.
- | Horizontal models are supplied as standard with controls in the base.



### TSH18/75/600

**External Dimensions (mm):** H x W x D **Net Wt.**  
(Nominal) TSH18/75/600 1500 x 975 x 650

| Supply: 400V– 3 Phase – 50/60Hz

| Energy rating: 12.0 kW

### PHASE CONTROL

Phase angle fired thyristor units operating in conjunction with low voltage secondary isolating transformers providing the correct parameters for the heating elements.

### 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 gas atmospheres.
- | Multi segment, multi program storage controllers.
- | Thermal Radiation Plugs.

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