

# Data Sheet

## Model: TSH17/75/450

1700 °C Maximum Temperature,  
Single Zone Horizontal Tube Furnace



### INTRODUCTION

The TSH17 furnace is a floor mounted tube furnace ideal for most general laboratory thermal processing applications.

The TSH17/75 Single Zone Tube furnace can accept a work tube with internal tube diameter of 75 mm. TSH17/75 range offers a choice of three heated zone lengths of 300mm, 450mm and 600mm.

TSH17/75/450 comes with a heated zone length of 450 mm.

### SPECIFICATIONS

**Maximum Temperature:** 1700°C

**Maximum Continuous Temperature:** 1700°C

| These models are heated on both sides of the chamber by molybdenum Disilicide elements.

| This furnace design requires the use of a separate work tube of a grade suitable for the maximum temperature rating of 1700 °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.



## TSH17/75/450

| **External Dimensions (mm):** H x W x D      **Net Wt.**  
(Nominal) TSH17/75/450      1500 x 775 x 650      265 kg

| Supply: 230V– 1 Phase – 50/60Hz

| Energy rating: 9.0 kW

### PHASE CONTROL

Phase angle fired thyristor unit operating in conjunction with a low voltage secondary isolating transformer providing the correct operating 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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