

Data Sheet

Model: TSH18/75/450

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.

TSH18/75/450 comes with a heated zone length of 450 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.



TSH18/75/450

| **External Dimensions (mm):** H x W x D **Net Wt.**
(Nominal) TSH18/75/450 1500 x 825 x 650 265 kg

| Supply: 230V– 1 Phase – 50/60Hz

| Energy rating: 9.0 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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