

# Data Sheet

## Model: TSH14/50/450-SY

1400°C Maximum Temperature,  
Single Zone Horizontal Tube Furnace



### INTRODUCTION

Sylab Scientific Pvt. Ltd., under technical collaboration with Elite Thermal Systems Ltd, UK, manufactures high quality furnaces in India.

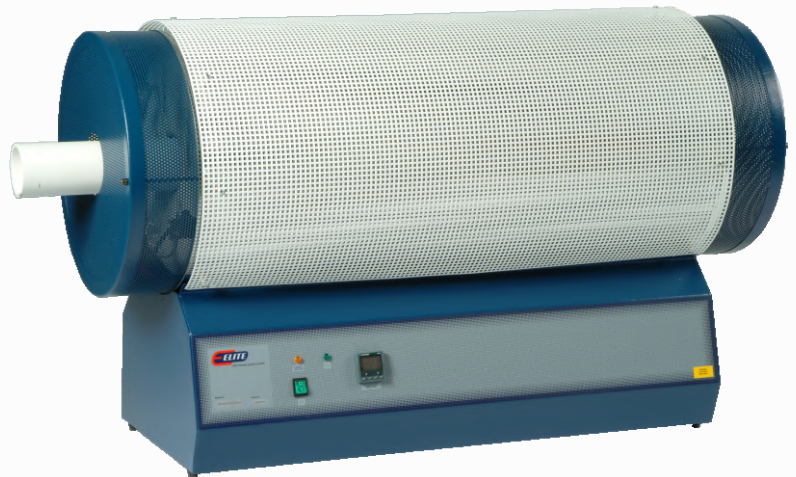
Elite Thermal Systems, based in UK, is a 30-year-old furnace manufacturing company with strong brand recognition across the globe.

Sylab Scientific delivers high-quality solutions by leveraging technical expertise and components sourced from Elite Thermal Systems Ltd, UK.

The TSH14-SY furnace is a bench mounted tube furnace ideal for most general laboratory thermal processing applications.

The TSH14/50-SY Single Zone Tube furnace can accept a work tube with internal tube diameter of 50 mm. TSH14/50-SY range offers a choice of three heated zone lengths of 180 mm, 450 mm & 610 mm.

TSH14/50/450-SY comes with a heated zone length of 450 mm.



**TSH14/50/450-SY**

### SPECIFICATIONS

**Maximum Temperature:** 1400°C

**Maximum Continuous Temperature:** 1350°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 1400°C

| A work tube is not supplied as an integral part of the furnace and therefore needs to be purchased with the order 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) TSH14/50/450-SY 715 x 1000 x 460      70 kg

| **Power Supply:** 230V– 1 Phase – 50/60Hz

| **Energy rating:** 4.5 kW (Average)  
5.8 kW (Peak)

### OPTIONS

| 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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