

# Data Sheet

## Model: TSH15/75/450-SY

1500°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 TSH15-SY furnace is a bench mounted tube furnace ideal for most general laboratory thermal processing applications.

The TSH15/75-SY Single Zone Tube furnace can accept a work tube with internal tube diameter of 75 mm. TSH15/75-SY range offers a choice of two heated zone lengths of 450 mm & 610 mm.

TSH15/75/450-SY comes with a heated zone length of 450 mm.



**TSH15/75/450-SY**

### SPECIFICATIONS

**Maximum Temperature:** 1500°C

**Maximum Continuous Temperature:** 1450°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 1500°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) TSH15/75/450-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
- | Over Temperature protection controller
- | Multi segment, multi program storage controllers
- | Thermal Radiation Plugs

**Vertical versions are available which have a separate console**

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