

# Data Sheet

## Model: TSH12/38/500-SY

1200°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 TSH12-SY furnace is a bench mounted tube furnace ideal for most general laboratory thermal processing applications.

The TSH12/38-SY Single Zone Tube furnace has an internal tube diameter of 38 mm. TSH12/38-SY range offers a choice of two heated zone lengths of 250 mm & 500 mm.

TSH12/38/500-SY comes with a heated zone length of 500 mm.



TSH12/38/500-SY

### SPECIFICATIONS

**Maximum Temperature:** 1200°C

**Maximum Continuous Temperature:** 1150°C

- | The furnace design incorporates an integral elemental tube
- | Protective outer mesh covers for improved operator safety
- | High grade resistance wire wound heating elements
- | Energy efficient, high quality, low thermal mass insulation
- | For aggressive processes, a separate work tube is recommended to minimise the risk of contaminating the elemental work tube
- | A rugged metal sheathed control thermocouple is protected from accidental damage and allows full use of work tube bore
- | Temperature Sensor: 'N' Type thermocouple
- | ELITE PID controller offering 8 programs with 8 segments each
- | Horizontal models are supplied as standard with controls in the base

External Dimensions (mm):	H x W x D	Net Wt.
(Nominal) TSH12/38/500-SY	560 x 585 x 315	16 kg

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

| **Energy rating:** 1.7 kW.

### 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 controller
- | Over temperature protection controller

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

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