

# Data Sheet

## Model: TSV14/50/450-SY

1400°C Maximum Temperature,  
Single Zone Vertical 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 TSV14-SY furnace is a vertical-mounted tube furnace with a separate control console, ideal for most general laboratory thermal processing applications.

The TSV14/50-SY Single Zone Tube furnace can accept a work tube with internal tube diameter of 50 mm. TSV14/50-SY range offers a choice of three heated zone lengths of 180 mm, 450 mm & 610 mm.

TSV14/50/450-SY comes with a heated zone length of 450 mm.



TSV14/50/450-SY

### SPECIFICATIONS

**Maximum Temperature:** 1400°C

**Maximum Continuous Temperature:** 1350°C

| These models are heated by silicon carbide rods arranged equally around and parallel with 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

| **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

| A wide range of furnace mounting configurations, such as Tripod stands, Wall-Mounted Brackets, L-stands, Custom Adjustable Stands, etc.

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