

Data Sheet

Model: TSV16/50/450-SY

1600°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 TSV16-SY furnace is a vertical-mounted tube furnace with a separate control console, ideal for most general laboratory thermal processing applications.

The TSV16/50-SY Single Zone Tube furnace can accept a work tube with internal tube diameter of 50 mm. TSV16/50-SY range offers a choice of three heated zone lengths of 180mm, 450 mm & 610 mm.

TSV16/50/450-SY comes with a heated zone length of 450 mm.

SPECIFICATIONS

Maximum Temperature: 1600°C

Maximum Continuous Temperature: 1550°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 1600°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:** 400V – 3 Phase – 50/60Hz

| **Energy rating:** 5.0 kW (Average)

33.0 kW (Peak)



TSV16/50/450-SY

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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