

# Data Sheet

## Model: TSV14/50/180

1400 °C Maximum Temperature,  
Single Zone Vertical Tube Furnace



### INTRODUCTION

The TSV14 furnace is a vertical-mounted tube furnace with a separate control console, ideal for most general laboratory thermal processing applications.

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

TSV14/50/180 comes with a heated zone length of 180 mm.

### SPECIFICATIONS

**Maximum Temperature:** 1400 °C

**Maximum Continuous Temperature:** 1400 °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.

| Vertical models are supplied as separate control console remote from furnace, separated by 2 meters of flexible interconnecting cable.



## TSV14/50/180

| **External Dimensions (mm):** H x W x D    **Net Wt.**  
(Nominal) TSV14/50/180

| Supply: 230V– 1 Phase – 50/60Hz

| Energy rating: 1.5 kW (Average)  
3.6 kW (Peak)

### OPTIONAL FEATURES

| 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.

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