

# Data Sheet

## Model: TSV18/75/300

1800 °C Maximum Temperature,  
Single Zone Vertical Tube Furnace



### INTRODUCTION

The TSV18 furnace is a vertical tube furnace with a separate control panel for most common laboratory thermal processing applications.

The TSV18/75 Single Zone Tube furnace can accept a work tube with internal tube diameter of 75 mm. TSV18/75 range offers a choice of three heated zone lengths of 300mm, 450mm & 600mm.

TSV18/75/300 comes with a heated zone length of 300mm.

### SPECIFICATIONS

**Maximum Temperature:** 1800 °C

**Maximum Continuous Temperature:** 1800 °C

| These models are heated on both sides of the chamber by molybdenum Tungsten Disilicide elements.

| This furnace design requires the use of a separate work tube of a grade suitable for the maximum temperature rating of 1800 °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: 'B' Type Thermocouple.

| Energy efficient, high quality, low thermal mass insulation.

| High end Microprocessor PID controller.

| Over temperature protection controller.

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



TSV18/75/300

| **External Dimensions: Across Flats (Hexagon) (mm)**  
910 x 650

| **Net Wt.:**

| Supply: 230V– 1 Phase – 50/60Hz

| Energy rating: 5.0 kW

### PHASE CONTROL

Phase angle fired thyristor units operating in conjunction with low voltage secondary isolating transformers providing the correct parameters for the heating elements.

### 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 gas atmospheres.

| Multi segment, multi program storage controllers.

| Thermal Radiation Plugs.

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