

# Data Sheet

## Model: TSV175/75/350

1750 °C Maximum Temperature,  
Single Zone Vertical Tube Furnace



### INTRODUCTION

The TSV175 furnace is a vertical tube furnace with a separate control panel for most common laboratory thermal processing applications.

The TSV175/75 Single Zone Tube furnace can accept a work tube with internal tube diameter of 75 mm.

TSV175/75/350 comes with a heated zone length of 350mm.

### SPECIFICATIONS

**Maximum Temperature:** 1750 °C

**Maximum Continuous Temperature:** 1750 °C

| These models are heated by lanthanum chromite elements suspended parallel to the work tube.

| This furnace design requires the use of a separate work tube of a grade suitable for the maximum temperature rating of 1750 °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.

## TSV175/75/350

| **External Dimensions (mm):** H x W x D **Net Wt.**  
(Nominal) TSV175/75/350 1600 x 940 x 1000 120 kg

| Supply: 400V– 3 Phase – 50/60Hz

| Energy rating: 12.0 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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