

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: 1700°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

| Supply: 400V – 3 Phase – 50/60Hz

| Energy rating: 12.0 kW



TSV175/75/350

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

PHASE CONTROL

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

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 gas atmospheres

| Multi segment, multi program storage controllers

| 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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