

# Data Sheet

Model: TSHvc12/75/600-HV

1200 °C Maximum Temperature,  
Single Zone Horizontal Vacuum Tube Furnace with  
High Vacuum System



## INTRODUCTION

The TSHvc12-HV is a Floor mounted tube furnace ideal for most general laboratory high vacuum thermal processing applications.

The TSHvc12/75 Single Zone Tube furnace includes a work tube with internal tube diameter of 75 mm as the vacuum chamber.

TSHvc12/75/600-HV comes with a heated zone length of 600 mm.

## SPECIFICATIONS

**Maximum Temperature:** 1200 °C

**Maximum Continuous Temperature:** 1150 °C

- | The furnace design incorporates an integral elemental tube.
- | Protective outer mesh covers for improved operator safety.
- | High grade resistance wire wound heating elements.
- | Energy efficient, high quality, low thermal mass insulation.
- | Temperature Sensor: 'N' Type thermocouple.
- | High end Microprocessor PID controller.
- | Over temperature protection controller.

## OTHERS

The vacuum furnace system comprising of the following is included:

- | Ceramic work tube.
- | Vacuum ready end flange gas tight seals.
- | Thermal radiation plugs.
- | Rotary pump-two stage sliding vane type.
- | Turbo molecular pump-ultimate vacuum level up to  $1 \times 10^{-5}$  mbar.
- | Pirani gauge-wide range full vacuum monitoring.
- | Flowmeter for control of gas throughput. Vacuum tight valve.
- | Gas in/outlet valve.



**TSHvc12/75/600-HV**

**Furnace External Dimensions (mm):** H x W x D  
(Nominal) TSHvc12/75/600-HV 1450 x 1850 x 700

**Net weight of the total instruments approximately:** 195 kg

| Supply: 230V– 1 Phase – 50/60Hz

| Energy rating: 4.0 kW.

## OPTIONS

- | Multi segment, multi program storage controller
- | Semi-automatic or fully automatic vacuum/heating cycles

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