

# Data Sheet

## Model: TSHvc12/75/600

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



### INTRODUCTION

The TSHvc12 furnace is a Floor mounted tube furnace ideal for most general laboratory 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 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 included.

### OTHERS

The vacuum system comprising of the following is included:

- | Vacuum vessel - Ceramic tube fitted with stainless steel end seals.
- | Rotary pump-two stage sliding vane type.
- | Backing/roughing and baffle valves manually operated.
- | Low Vacuum model: Ultimate vacuum better than  $1 \times 10^{-2}$  mbar.
- | High Vacuum Model has a Turbomolecular pump for a vacuum level of  $1 \times 10^{-5}$  mbar or better with clean empty work tube.



TSHvc12/75/600

**Tube External Dimensions (mm):** H x W x D    **Net Wt.**  
(Nominal) TSHvc12/75/600    620 x 700 x 330    26 kg

| Supply: 230V- 1 Phase - 50/60Hz

| Energy rating: 2.8 kW.

### OPTIONAL FEATURES

- | Multi segment, multi program storage controller.
- | Gas inlet with additional safety system for use with combustible atmospheres.
- | Flowmeter and valves for control of gas throughput.
- | Semi-automatic or fully automatic vacuum/heating cycles.

**Low Vacuum system**                      **Cat No.: TSHvc12/75/600-LV**

**High Vacuum system**                      **Cat No.: TSHvc12/75/600-HV**

**Vertical versions are available which have a separate console**

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