

# Data Sheet

## Model: TSHvc12/75/600-LV

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



### INTRODUCTION

The TSHvc12-LV is a Floor mounted tube furnace ideal for most general laboratory low 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-LV 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 for ultimate vacuum level up to  $1 \times 10^{-3}$  mbar with clean empty work tube.
- | Pirani gauge with wide range of vacuum level.
- | Flowmeter for control of gas throughput. Vacuum tight valve.
- | Gas in/outlet valve.



*\*Illustrative image only*

## TSHvc12/75/600-LV

**Furnace External Dimensions (mm):** H x W x D  
(Nominal) TSHvc12/75/600-LV 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

## Elite Thermal Systems Ltd

Elite Court, 6 Stuart Road, Market Harborough, Leicestershire LE16 9PQ, UK

Tel: +44 (0)1858 469834 | E-mail: [contact@elitefurnaces.com](mailto:contact@elitefurnaces.com) | Website: [www.elitefurnaces.com](http://www.elitefurnaces.com)