

# Data Sheet

## Model: TSHvc15/75/450-LV

1500 °C Maximum Temperature,  
Single Zone Horizontal Vacuum Tube Furnace with  
Low Vacuum System



### INTRODUCTION

The TSHvc15-LV is a floor mounted tube furnace ideal for low vacuum thermal processing applications.

The TSHvc15/75 Single Zone Tube furnace includes a work tube with internal tube diameter of 75 mm as the vacuum chamber.

TSHvc15/75/450-LV comes with a heated zone length of 450 mm.

### SPECIFICATIONS

**Maximum Temperature:** 1500 °C

**Maximum Continuous Temperature:** 1450 °C

- | Heating is via silicon carbide elements.
- | Temperature Sensor: 'R' type Thermocouple.
- | Protective outer mesh covers for improved operator safety.
- | Energy efficient, high quality, low thermal mass insulation.
- | Over temperature protection controller.
- | High end Microprocessor PID 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

## TSHvc15/75/450-LV

**Furnace External Dimensions (mm):** H x W x D  
(Nominal) TSHvc15/75/450-LV 1500 x 1700 x 700

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

**Supply:** 230V– 1 Phase – 50/60Hz

**Energy rating:** 5.8 kW

### OPTIONS

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

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