

Data Sheet

Model: TSHvc15/50/450-HV

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



INTRODUCTION

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

The TSHvc15/50 Single Zone Tube furnace includes a work tube with internal tube diameter of 50 mm as the vacuum chamber.

TSHvc15/50/450-HV 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.
- | Turbo molecular pump-ultimate vacuum level up to 1×10^{-5} mbar.
- | Pirani gauge-wide range full vacuum monitoring.
- | Flowmeter for control of gas throughput. Vacuum tight valve.
- | Gas in/outlet valve.



*Illustrative image only

TSHvc15/50/450-HV

Furnace External Dimensions (mm): H x W x D
(Nominal) TSHvc15/50/450-HV 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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