

Data Sheet

Model: TSHvc15/75/450

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



INTRODUCTION

The TSHvc15 furnace is a floor mounted tube furnace ideal for high vacuum or low vacuum processing 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 comes with a heated zone length of 450 mm.

SPECIFICATIONS

Maximum Temperature: 1500°C

Maximum Continuous Temperature: 1500°C

- | Heating is via silicon carbide elements.
- | Temperature Sensor: 'R' type Thermocouple.
- | Energy efficient, high quality, low thermal mass insulation.
- | Over Temperature protection controller.
- | High end Microprocessor PID controller.

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.
- | Vacuum Isolation Valve.
- | A wide range vacuum gauge is used for both High vacuum and Low Vacuum measurements.
- | Low Vacuum Model: Ultimate vacuum - better than 1×10^{-2} mbar, with clean empty work tube.
- | High Vacuum Model has a Turbomolecular pump for a vacuum level of 1×10^{-5} mbar or better with clean empty work tube.



TSHvc15/75/450

| Tube External Dimensions (mm): H x W x D **Net Wt.**
(Nominal) TSHvc15/75/450 1500 x 1700 x 600 195 kg

- | Supply: 230V- 1 Phase – 50/60Hz
- | Energy rating: 5.5 kW

OPTIONAL FEATURES

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

Low Vacuum system **Cat No.: TSHvc15/75/450-LV**

High Vacuum system **Cat No.: TSHvc15/75/450-HV**

Vertical versions are available which have a separate console

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