Data Sheet
Model: TSV18/75/450

1800 °C Maximum Temperature, Single Zone Vertical Tube Furnace

INTRODUCTION

The TSV18 furnace is a vertical tube furnace with a separate control panel for most common laboratory thermal processing applications.

The TSV18/75 Single Zone Tube furnace can accept a work tube with internal tube diameter of 75 mm. TSV18/75 range offers a choice of three heated zone lengths of 300mm, 450mm & 600mm.

TSV18/75/450 comes with a heated zone length of 450mm.

TSV18/75/450

*The above image is for representation only

SPECIFICATIONS

Maximum Temperature: 1800 °C

Maximum Continuous Temperature: 1750 °C

- These models are heated on both sides of the chamber by molybdenum Tungsten Disilicide elements.
- This furnace design requires the use of a separate work tube of a grade suitable for the maximum temperature rating of 1800 °C.
- A work tube is not supplied as an integral part of the furnace and therefore needs to be ordered with the furnace as it is an essential accessory.
- Temperature Sensor: 'B' Type Thermocouple.
- Energy efficient, high quality, low thermal mass insulation.
- High end Microprocessor PID controller.
- Over temperature protection controller.
- Vertical models are supplied as separate control console remote from furnace, separated by 2 meters of flexible interconnecting cable.
- Vertical mounting stand for the furnace body.
- Clamps to hold work tube.

- **Power Supply:** 230V– 1 Phase – 50/60Hz
- **Energy rating:** 6.0 kW

PHASE CONTROL

Phase angle fired thyristor units operating in conjunction with low voltage secondary isolating transformers providing the correct parameters for the heating elements.

OPTIONAL FEATURES

- Work tubes of various materials, lengths and diameters for use in the furnace.
- The work tubes are available for containment of atmosphere or protection against process contaminants.
- A variety of triple flange gas tight end seals for work tubes to allow processing under gas atmospheres.
- Multi segment, multi program storage controllers.
- Thermal Radiation Plugs.

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