

Data Sheet

Model: TMV18(Z3)/50/610

1800 °C Maximum Temperature,
Three Zone Vertical Tube Furnace



INTRODUCTION

The TMV18 furnace is a vertical-mounted tube furnace with a separate control console, ideal for most general laboratory thermal processing applications.

The TMV18(Z3)/50 Three Zone Tube furnace has an internal tube diameter of 50 mm. TMV18(Z3)/50/610 comes with a heated zone length of 610 mm.

SPECIFICATIONS

Maximum Temperature: 1800 °C

Maximum Continuous Temperature: 1800 °C

- | The TMV(Z3) furnaces are designed to give a longer uniform centre zone temperature than that of the single zone tube furnace models of the same length.
- | All TMV(Z3) models are controlled by retransmission of set point from the centre zone controller to the end zone controllers.
- | Molybdenum tungsten Disilicide heating elements are mounted in the sides of the chamber radiating heat directly into the furnace.
- | Energy efficient, high quality, low thermal mass insulation.
- | Temperature Sensor: 'B' Type thermocouple.
- | A work tube is not supplied as an integral part of the furnace and therefore has to be purchased separately as it is an essential accessory.
- | Over temperature protection is included in the standard specification.
- | High end Microprocessor PID controller.
- | Vertical models are supplied as separate control console remote from furnace, separated by 2 meters of flexible interconnecting cable.

TMV18(Z3)/50/610

- | **External Dimensions Across flats (Hexagon) (mm) :**
(Nominal) TMV18(Z3)/50/610 900 x 800
- | **Net Wt.:**
- | Supply: 400V– 3+N Phase
- | Energy rating: 8.5 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.

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