

# Data Sheet

## Model: TMV16(Z3)/90/610

1600 °C Maximum Temperature,  
Three Zone Vertical Tube Furnace



### INTRODUCTION

The TMV16 furnace is a vertical-mounted tube furnace with a separate control console, ideal for most general laboratory thermal processing applications.

The TMV16(Z3)/90 Three Zone Tube furnace has an internal tube diameter of 90 mm. TMV16(Z3)/90/610 comes with a heated zone length of 610 mm.

### SPECIFICATIONS

**Maximum Temperature:** 1600 °C

**Maximum Continuous Temperature:** 1600 °C

- | The TMV(Z3) furnaces are designed to give a longer uniform centre zone temperature than that of the single zone tube furnace models.
- | All TMV(Z3) models are controlled by retransmission of set point from the centre zone controller to the end zone controllers.
- | This system provides a longer uniform zone temperature than that achieved by the use of single zone furnace of the same length.
- | Protective outer mesh covers for improved operator safety.
- | Top grade silicon carbide rods in all 3 heated zones.
- | Energy efficient, high quality, low thermal mass insulation.
- | Temperature Sensor: Thermocouple, type "R".
- | 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.
- | High end Microprocessor PID controller.
- | Vertical models are supplied as separate control console remote from furnace, separated by 2 meters of flexible interconnecting cable.



### TMV16(Z3)/90/610

- | **External Dimensions (mm):** H x W x D **Net Wt.**  
(Nominal) TMV16(Z3)/90/610
- | Supply: 400V– 3 Phase
- | Energy rating: 9.0 kW

### 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 end seals for work tubes to allow processing under Vacuum or gas atmospheres.
- | Over Temperature protection controller.
- | Multi segment, multi program storage controllers.

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