

# Data Sheet

## Model: TMH16(Z3)/90/610

1600 °C Maximum Temperature,  
Three Zone Horizontal Tube Furnace



### INTRODUCTION

The TMH16(Z3) furnace is a bench mounted tube furnace ideal for most general laboratory thermal processing applications.

The TMH16(Z3)/90 Three Zone Tube furnace has an internal tube diameter of 90 mm. TMH16(Z3)/90/610 comes with a heated zone length of 610 mm.

### SPECIFICATIONS

**Maximum Temperature:** 1600 °C

**Maximum Continuous Temperature:** 1550 °C

- | The TMH(Z3) furnaces are designed to give a longer uniform centre zone temperature than that of the single zone tube furnace models.
- | All TMH(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.
- | 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.
- | Temperature Sensor: "R" type Thermocouple.
- | Horizontal models are supplied as standard with controls in the base.



## TMH16(Z3)/90/610

**External Dimensions (mm):** H x W x D **Net Wt.**  
(Nominal) TMH16(Z3)/90/610 825 x 1150 x 562 70 kg

- | Supply: 400V– 3 Phase
- | Energy rating: 9.0 kW (Average)  
11.3 kW (Peak)

### OPTIONS

- | 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 Vacuum or gas atmospheres.
- | Over Temperature protection controller.
- | Multi segment, multi program storage controllers.

**Vertical versions are available at extra cost, which will have separate temperature console**

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