

Data Sheet

Model: TMV17(Z3)/50/610

1700°C Maximum Temperature,
Three Zone Vertical Tube Furnace



INTRODUCTION

The TMV17 furnace is a vertical-mounted tube furnace with a separate control console, ideal for most general laboratory thermal processing applications.

The TMV17(Z3)/50 Three Zone Tube furnace has an internal tube diameter of 50 mm. TMV17(Z3)/50/610 comes with a heated zone length of 610 mm. Standard zone sizes: 165 mm (zone 1); 290 mm (zone 2); 165 mm (Zone 3). Other zone sizes can also be supplied.

SPECIFICATIONS

Maximum Temperature: 1700°C

Maximum Continuous Temperature: 1650°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 Disilicide single loop elements mounted along the front and rear walls of the furnace chamber
- | 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 needs to be ordered with the furnace as it is an essential accessory
- | High end Microprocessor PID controller
- | Over temperature protection is included in the standard specification
- | **Power Supply:** 400V – 3+N Phase
- | **Energy rating:** 8.0 kW



*Illustrative image only

TMV17(Z3)/50/610

| **External Dimensions Across flats (Hexagon) (mm) :**
(Nominal) TMV18(Z3)/50/610 900 x 800

PHASE CONTROL

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

OPTIONS

- | Work tubes of various materials, lengths and diameters for use in the furnace
- | Two or more zones are also available
- | Independent control of each zone is also available
- | 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 controller
- | A wide range of furnace mounting configurations, such as Tripod stands, Wall-Mounted Brackets, L-stands, Custom Adjustable Stands, etc.

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