

# Data Sheet

## Model: TMV18(Z3)/75/610

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)/75 Three Zone Tube furnace has an internal tube diameter of 75 mm. TMV18(Z3)/75/610 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:** 1800°C

**Maximum Continuous Temperature:** 1750°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
- | 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
- | **Power Supply:** 230V – 1 Phase
- | **Energy rating:** 10.0 kW



\*Illustrative image only

## TMV18(Z3)/75/610

**External Dimensions (mm):** H x W x D **Net Wt.**  
(Nominal) TMV18(Z3)/75/610 1550 x 995 x 650 310 kg

### 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 end seals for work tubes to allow processing under gas atmospheres
- | Multi segment, multi program storage controllers
- | A wide range of furnace mounting configurations, such as Tripod stands, Wall-Mounted Brackets, L-stands, Custom Adjustable Stands, etc.

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