

# 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. 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 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

| **Power Supply:** 400V – 3+N Phase

| **Energy rating:** 8.5 kW



\*Illustrative image only

## TMV18(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

| 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

| A wide range of furnace mounting configurations, such as Tripod stands, Wall-Mounted Brackets, L-stands, Custom Adjustable Stands, etc.

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