

# Data Sheet

## Model: TMV15(Z3)/50/450

1500 °C Maximum Temperature,  
Three Zone Vertical Tube Furnace



### INTRODUCTION

The TMV15 furnace is a vertical-mounted tube furnace with a separate control console, ideal for most general laboratory thermal processing applications.

The TMV15(Z3)/50 Three Zone Tube furnace has an internal tube diameter of 50 mm. TMV15(Z3)/50/450 comes with a heated zone length of 450 mm.

### SPECIFICATIONS

**Maximum Temperature:** 1500 °C

**Maximum Continuous Temperature:** 1500 °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.

| High end Microprocessor PID controller.

| 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.

| Temperature Sensor: "R". Type thermocouple.

| Vertical models are supplied as separate control console remote from furnace, separated by 2 meters of flexible interconnecting cable.



### TMV15(Z3)/50/450

| **External Dimensions (mm):** H x W x D **Net Wt.**  
(Nominal) TMV15(Z3)/50/450

| Supply: 400V– 3 Phase

| Energy rating: 4.5 kW (Average)  
22.0 kW (Peak)

### 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 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.

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