

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.

SPECIFICATIONS

Maximum Temperature: 1800 °C

Maximum Continuous Temperature: 1800 °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.

| Vertical models are supplied as separate control console remote from furnace.

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

| Supply: 230V– 1 Phase

| Energy rating: 10.0 kW

PHASE CONTROL

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

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 end seals for work tubes to allow processing under gas atmospheres.

| Multi segment, multi program storage controllers.

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