

# Data Sheet

## Model: TMH18(Z3)/75/610

1800 °C Maximum Temperature,  
Three Zone Horizontal Tube Furnace



TMH18(Z3)/75/610

### INTRODUCTION

The TMH18(Z3) furnace is a floor mounted tube furnace ideal for most general laboratory thermal processing applications.

The TMH18(Z3)/75 Three Zone Tube furnace has an internal tube diameter of 75 mm. TMH18(Z3)/75 range offers a choice of two heated zone lengths of 450mm & 610mm.

TMH18(Z3)/75/610 comes with a heated zone length of 610 mm.

### SPECIFICATIONS

**Maximum Temperature:** 1800 °C

**Maximum Continuous Temperature:** 1800 °C

| The TMH(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 TMH(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.

| 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: 'B' Type thermocouple.

| Over temperature protection is included in the standard specification.

| High end Microprocessor PID controller.

| Horizontal models are supplied as standard with controls in the base.

| **External Dimensions (mm):** H x W x D **Net Wt.**  
(Nominal) TMH18(Z3)/75/610 1550 x 995 x 650 310 kg

| Supply: 230V– Single 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 triple flange gas tight end seals for work tubes to allow processing under gas atmospheres.

| Multi segment, multi program storage controller.

**Vertical versions are available at extra cost, which will have separate temperature console**

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