

Data Sheet

Model: TMH18(Z3)/50/450

1800°C Maximum Temperature,
Three Zone Horizontal Tube Furnace



INTRODUCTION

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

The TMH18(Z3)/50 Three Zone Tube furnace has an internal tube diameter of 50 mm. TMH18(Z3)/50 range offers a choice of two heated zone lengths of 450mm & 610mm.

TMH18(Z3)/50/450 comes with a heated zone length of 450 mm.

SPECIFICATIONS

Maximum Temperature: 1800°C

Maximum Continuous Temperature: 1750°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



TMH18(Z3)/50/450

| **External Dimensions (mm):** H x W x D **Net Wt.**
(Nominal) TMH18(Z3)/50/450 1550 x 835 x 650 280 kg

| Supply: 230V– Single Phase

| Energy rating: 9.0 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.

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 controller

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

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