

# Data Sheet

## Model: TMH12(Z3)/50/610

1200 °C Maximum Temperature,  
Three Zone Horizontal Tube Furnace



### INTRODUCTION

The TMH12(Z3) furnace is a bench mounted tube furnace ideal for most general laboratory thermal processing applications.

The TMH12(Z3)/50 Three Zone Tube furnace has an internal tube diameter of 50 mm. TMH12(Z3) /50/610 comes with a heated zone length of 610 mm.

### SPECIFICATIONS

**Maximum Temperature:** 1200 °C

**Maximum Continuous Temperature:** 1150 °C

| The TMH(Z3) furnaces are designed to give a longer uniform centre zone temperature than that of the single zone tube furnace models.

| All TMH(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.

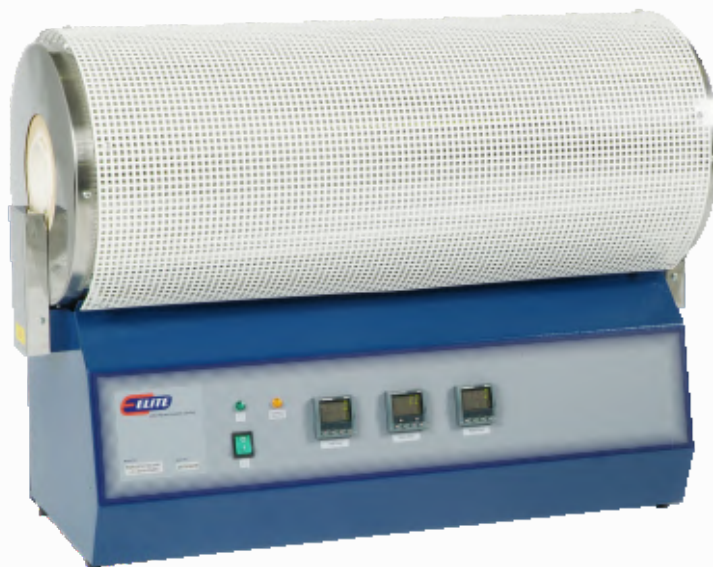
| High grade resistance wire elements wound onto a ceramic work tube which is an integral part of the furnace.

| Energy efficient, high quality, low thermal mass insulation.

| Temperature Sensor: 'N' Type Sensor.

| High end Microprocessor PID controller.

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



## TMH12(Z3)/50/610

| **External Dimensions (mm):** H x W x D **Net Wt.**  
(Nominal) TMH12(Z3)/50/610 620 x 720 x 330 21 kg

| Supply: 230V– 1 Phase – 50/60Hz

| Energy rating: 2.0 kW

### 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.

| Multi segment, multi program storage controller.

| Over temperature protection controller.

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

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