

# Data Sheet

## Model: TMH12(Z3)/75/750-SY

1200°C Maximum Temperature,  
Three Zone Horizontal Tube Furnace



### INTRODUCTION

Sylab Scientific Pvt. Ltd., under technical collaboration with Elite Thermal Systems Ltd, UK, manufactures high quality furnaces in India.

Elite Thermal Systems, based in UK, is a 30-year-old furnace manufacturing company with strong brand recognition across the globe.

Sylab Scientific delivers high-quality solutions by leveraging technical expertise and components sourced from Elite Thermal Systems Ltd, UK.

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

The TMH12(Z3)/75-SY Three Zone Tube furnace has an internal tube diameter of 75 mm. TMH12(Z3)/75/750-SY comes with a heated zone length of 750 mm.

Standard zone sizes: 125 mm (zone 1); 500 mm (zone 2); 125 mm (Zone 3). Other zone sizes can also be supplied.



\*Illustrative image only

## TMH12(Z3)/75/750-SY

### SPECIFICATIONS

**Maximum Temperature:** 1200°C

**Maximum Continuous Temperature:** 1150°C

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

| All TMH(Z3)-SY 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

| ELITE PID controller offering 8 programs with 8 segments each

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

<b>External Dimensions (mm):</b>	<b>H</b>	<b>x</b>	<b>W</b>	<b>x</b>	<b>D</b>	<b>Net Wt.</b>
(Nominal) TMH12(Z3)/75/750-SY	620	x	860	x	330	30 kg

| **Power Supply:** 230V– 1 Phase – 50/60Hz

| **Energy rating:** 2.7 kW

### OPTIONS

| Work tubes of various materials, lengths and diameters for use in the furnace

| Two or more zones are also available

| Independent control of each zone is also available

| 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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