

# Data Sheet

## Model: TMH16(Z3)/75/450-SY

1600°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 TMH16(Z3)-SY furnace is a bench mounted tube furnace ideal for most general laboratory thermal processing applications.

The TMH16(Z3)/75-SY Three Zone Tube furnace has an internal tube diameter of 75 mm. TMH16(Z3)/75-SY range offers a choice of two heated zone lengths of 450mm & 610mm.

TMH16(Z3)/75/450-SY comes with a heated zone length of 450 mm. Standard zone sizes: 100 mm (zone 1); 250 mm (zone 2); 100 mm (Zone 3). Other zone sizes can also be supplied.



\*Illustrative image only

## TMH16(Z3)/75/450-SY

### SPECIFICATIONS

**Maximum Temperature:** 1600°C

**Maximum Continuous Temperature:** 1550°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
- | Top grade silicon carbide rods in all 3 heated zones
- | 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
- | ELITE PID controller offering 8 programs with 8 segments each
- | Temperature Sensor: "R" type Thermocouple
- | Horizontal models are supplied as standard with controls in the base

**External Dimensions (mm):** H x W x D **Net Wt.**  
(Nominal) TMH16(Z3)/75/450-SY 715 x 1000 x 460 60 kg

**Power Supply:** 400V– 3 Phase

**Energy rating:** 6.0 kW (Average)  
9.9 kW (Peak)

### 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
- | Over Temperature protection controller
- | Multi segment, multi program storage controllers

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

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