

# Data Sheet

## Model: TMV16(Z3)/50/450-SY

1600°C Maximum Temperature,  
Three Zone Vertical 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 TMV16-SY furnace is a vertical-mounted tube furnace with a separate control console, ideal for most general laboratory thermal processing applications.

The TMV16(Z3)/50-SY Three Zone Tube furnace has an internal tube diameter of 50 mm. TMV16(Z3)/50/450-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.

### SPECIFICATIONS

**Maximum Temperature:** 1600°C

**Maximum Continuous Temperature:** 1550°C

- | The TMV(Z3)-SY furnaces are designed to give a longer uniform centre zone temperature than that of the single zone tube furnace models
- | All TMV(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
- | Temperature Sensor: "R" Type thermocouple
- | 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
- | **Power Supply:** 400V – 3 Phase
- | **Energy rating:** 4.0 kW (Average)  
9.3 kW (Peak)



## TMV16(Z3)/50/450-SY

### 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
- | A wide range of furnace mounting configurations, such as Tripod stands, Wall-Mounted Brackets, L-stands, Custom Adjustable Stands, etc.

### SYLAB SCIENTIFIC PVT. LTD.

Ground Floor, B-50, Industrial Estate, Sanath Nagar, Hyderabad-500018. INDIA,  
Phone: +91 40 67216376 E-mail: sylab@sylabscientific.com Website: www.sylabscientific.com