

Data Sheet

Model: TMV16(Z3)/50/610-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)/50/610-SY comes with a heated zone length of 610 mm.

Standard zone sizes: 165 mm (zone 1); 290 mm (zone 2); 165 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: Thermocouple, type "R"

| 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:** 6.0 kW (Average)
9.3 kW (Peak)



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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 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.

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