

# Data Sheet

## Model: TMV12(Z3)/38/500-SY

1200°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 TMV12-SY furnace is a vertical-mounted tube furnace with a separate control console, ideal for most general laboratory thermal processing applications.

The TMV12(Z3)/38-SY Three Zone Tube furnace has an internal tube diameter of 38 mm. TMV12(Z3)/38/500-SY comes with a heated zone length of 500 mm.

Standard zone sizes: 90 mm (zone 1); 320 mm (zone 2); 90 mm (Zone 3). Other zone sizes can also be supplied.

### SPECIFICATIONS

**Maximum Temperature:** 1200°C

**Maximum Continuous Temperature:** 1150°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

| 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 thermocouple

| ELITE PID controller offering 8 programs with 8 segments each

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

| **Energy rating:** 1.8 kW



## TMV12(Z3)/38/500-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

| Multi segment, multi program storage controller

| Over temperature protection controller

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

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