

## LABORATORY TUBE FURNACES



- \* **HORIZONTAL**
- \* **VERTICAL**
- \* **MULTI-ZONE**
- \* **CONTROLLED ATMOSPHERE**
- \* **CUSTOM DESIGNED UNITS**

### Elements

- Wire** - Kanthal A1 for temperatures up to 1199°C.
- or **Silicon Carbide** - For fast heating or temperatures up to 1600°C
- or **Molybdenum Silicide** - KS 1800 or 1900 Molybdenum Disilicide for temperatures above 1600°C.

### Thermocouples

Type 'K', 'N', 'R', 'B' or '20/40' dependant on the specified operating temperature.

### Construction

Typically, double skin, steel or stainless steel casing containing insulation, elements and tube-supports. Horizontal tube furnace module mounted above control module (as picture at left). Control module separate when vertical or movable tube is specified. Other configurations, including as pictured below, available on request.

### Temperature Controllers

Tempron AYT set-point or AYP digital programmable controllers (1 pattern of 16 steps) TFKS furnaces are fitted with Yokogawa model UP550 or other programmable controllers as standard. Many others available on request.

### Overtemperature Protection

- Std. Nil for TFWW & TFSC furnaces. Monitory control using a limit controller and discrete thermocouple for TFKS furnaces.
- Opt. Monitory control for TFWW & TFSC.



### Some models listed below:-

Model	Hot Zone $\phi$ x L	Max Temperature	Work Tube	Electrical	Power
TFWW32/2001A	32 x 200mm	1199/1050°C Continuous	Al/Si ceramic	240v 10A	1.4Kw
TFWW40/2001A	40 x 200mm	1199/1050°C Continuous	Al/Si ceramic	240v 10A	1.8Kw
TFWW55/2001A	55 x 200mm	1199/1050°C Continuous	Al/Si ceramic	240v 10A	2.4Kw
TFWW70/2001A	70 x 200mm	1199/1050°C Continuous	Al/Si ceramic	240v 15A	3.6Kw
TFSC60/2006BV	60 x 200mm	1600/1550°C Continuous	Al/Si ceramic	2x240v 20v	9.6Kw
TFKS70/2007EVM	70 x 200mm	1700/1650°C Continuous	Alumina ceramic	240v 40A	9.6Kw