

The TZF horizontal 3-zone tube furnace range uses a wire element that is wound directly onto a fixed integral ceramic work tube.

The heated length is divided into 3 zones. An extended uniform zone in the mid-section of the work tube is achieved with the use of end zone controllers which track the centre zone temperature and compensate for the loss of heat from the tube ends.

This design provides a furnace which can be used without the need to purchase an accessory work tube.

However, should vacuum or a modified atmosphere be required, it is necessary to use a separate slide-in work tube in order to provide the required length needed to fit end seals.

Similarly, in some circumstances a work tube that has different physical or chemical properties to the fixed work tube may be required.



TZF 12/75/700

Standard features

- 1200 °C maximum operating temperature
- Provides a longer uniform zone than can be achieved in a single zone tube furnace
- End zone control is via back to back thermocouples
- Heated lengths of 400, 550, 700, 850 or 900 mm
- Accept work tubes with outer diameters of 32 mm to 90 mm
- Horizontally mounted on control module base

Options (specify these at time of order)

- Insulation plugs & radiation shields to prevent heat loss & improve uniformity
- Modified atmosphere and vacuum assemblies are available (see page 95)
- Alternative mounting options are available (see page 39)
- 'Retransmission of Setpoint' control configuration to facilitate programmed cooling
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications (see pages 88-91)

Technical data

Model	Max temp (°C)	Heat-up time (mins)	Max continuous operating temp (°C)	Dimensions: Fixed tube inner diameter (mm)	Dimensions: Heated length (mm)	Dimensions: External H x W x D (mm)	Dimensions: Furnace body length (mm)	Uniform length ±5°C (mm)	Max power (W)	Holding power (W)	Thermocouple type	Weight (kg)
TZF 12/38/400	1200	25	1100	38	400	430 x 450 x 375	450	305	1300	300	N	20
TZF 12/38/850	1200	-	1100	38	850	430 x 900 x 375	900	-	2850	-	N	27
TZF 12/65/550	1200	45	1100	65	550	525 x 625 x 360	600	390	2000	600	N	38
TZF 12/75/700	1200	45	1100	75	700	525 x 775 x 360	750	540	3000	800	N	46
TZF 12/100/900	1200	120	1100	100	900	525 x 975 x 360	950	754	4150	1000	N	54

i Please note:

- Heat up rate is measured to 100°C below max, using an empty tube & insulation plugs
- Holding power is measured at continuous operating temperature
- Maximum power and heat up time based on a 240 V supply



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