TZF High Temperature Three Zone Horizontal Tube Furnaces

Standard features

- ✓ 1800°C maximum operating temperature
- ✓ Accepts worktubes with outer diameters of up to 90mm
- ✓ Heated lengths of 600 or 610mm
- ✓ Includes end-zone controller using "back to back" control configuration
- ✓ Carbolite 301 controller with simple ramp to set points facility (TZF 15 & TZF 16)
- √ 8 segment programmable temperature control (TZF 17 & TZF 18)
- ✓ Overtemperature protection (TZF 17 & TZF 18)
- ✓ Delayed start / process timer function as standard

Options

specify these at time of order

- Non-permeable inner worktubes to contain modified atmosphere
- Impervious inner worktubes to protect against chemical attack or damage from thermal shock
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
 (TZF 15 & TZF 16)
- Insulation plugs & radiation shields to prevent heat loss & improve uniformity
- → Control module with 2 metre conduit to furnace cradle
- ✦ Gas injection & vacuum compatible tube end seal assemblies
- 2 phase, 3 phase or 'universal' power supply, depending upon model
- → 20 segment programmer
- → RS232 communications & graphical recorders
- 'Retransmission of Setpoint' control configuration to facilitate programmed cooling



TZF 15/610

Range of silicon carbide & molybdenum disilicide heated three zone furnaces supplied with 'Back to Back' controls as standard. Where programmed cooling rates are required or the option of vertical orientation is chosen then 'Retransmission of Setpoint' control should requested at time of order.

Requires but does not include an appropriate accessory worktube up to 90mm outer diameter.

Note: 1700°C or 1800°C furnaces have case configuration similar to the CTF series.

Model	Max temp (°C)	Heat-up time (mins)	Dimensions					Max			
			accessory	Tube / Worktube length (mm)				power (W)	T/C	W't	Power supply
				Heated*	For work in air	**For modified atmosphere work	External H x W x D (mm)				required per phase
TZF 15/610	1500	75	90	610	900	1650	660 x 1130 x 445	8000 4000	R	44	a1=60A, h3=22A, e3=38A
TZF 16/610	1600	-	90	610	900	1500	660 x 1130 x 445	9150 4500	R	181	<i>c1</i> =62A, <i>h3</i> =25A, <i>e3</i> =40A
TZF 17/600	1700	150	90	600	1200	1500	880 x 1020 x 630	9000 3800	В	280	a1=46A, b1=48A, h3=28A, e3=34A,
TZF 18/600	1800	150	90	600	1200	1500	645 x 1020 x 630	9300	2 [‡]	280	a1=40A, b3=30A, e3=28A, h3=24A

a1=Single 200-240V, b1=200-208V, c1= Single 220-240V, d3=200-220V 3 phase delta, e3=230-240V 3 phase delta, h3=380-415V 3 phase + N





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.