

Compact Tube Furnaces up to 1300 °C

These compact tube furnaces with integrated control systems can be used universally for many processes. Equipped with a standard working tube of C 530 ceramic and two fiber plugs, these tube furnaces have a very good price/performance ratio.



Tube furnace R 170/1000/13



Tube furnace R 50/250/13 with gas supply system 2

Standard Equipment

- Tmax 1200 °C or 1300 °C
- Single-zoned design
- Outer tube diameter of 50 mm to 170 mm, heated length from 250 mm to 1000 mm
- Ceramic working tube C 530 including two fiber plugs for operation under air see page 56
- Thermocouple type N (1200 °C) or type S (1300 °C)
- Heating elements on support tubes provide for free radiation see page 62
- Controller B410 (5 programs with each 4 segments), alternative controllers see page 75

Additional Equipment

- Over-temperature limiter with adjustable cutout temperature for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load
- Charge control with temperature measurement in the working tube see page 62
- Three-zoned design (heated length from 500 mm) for optimization of temperature uniformity
- Alternative working tubes see page 56
- Gas supply systems 1, 15, 2, 3 or 4 see page 58

Model	Tmax ¹ in °C	Outer dimensions ³ in mm			Outer tube Ø in mm	Heated length in mm	Length constant ¹ temperature +/- 5 K in mm		Tube length in mm	Connected load in kW	Electrical connection*	Weight in kg
		W ²	D	H			single-zoned	three-zoned				
R 50/250/12	1200	434	340	508	50	250	80	-	450	1.6	1-phase	22
R 50/500/12	1200	670	340	508	50	500	170	250	700	2.3 ⁴	1-phase	34
R 120/500/12	1200	670	410	578	120	500	170	250	700	6.5	3-phase	44
R 170/750/12	1200	920	460	628	170	750	250	375	1070	10.0	3-phase	74
R 170/1000/12	1200	1170	460	628	170	1000	330	500	1400	11.5	3-phase	89
R 50/250/13	1300	434	340	508	50	250	80	-	450	1.6	1-phase	22
R 50/500/13	1300	670	340	508	50	500	170	250	700	2.3 ⁴	1-phase	34
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R 170/750/13	1300	920	460	628	170	750	250	375	1070	10.0	3-phase	74
R 170/1000/13	1300	1170	460	628	170	1000	330	500	1400	11.5	3-phase	89

¹Values outside the tube. Difference to temperature inside the tube up to + 50

²Without tube

³External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

*Please see page 75 for more information about supply voltage

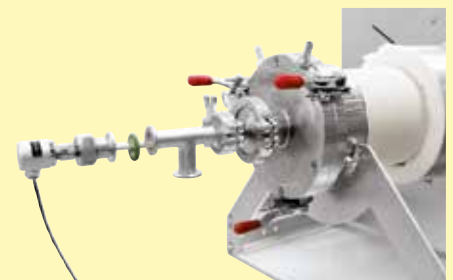
⁴Only valid for single-zone version



Tube furnace R 50/500/12 with three zone control



Gas panel for one non-flammable protective or reactive gas (N₂, Ar, He, CO₂, air, forming gas)



Thermocouple for charge control