

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 32
- Thermocouple type N (1200 °C) or type S (1300 °C)
- Heating elements on support tubes provide for free radiation see page 38
- Controller with touch operation B510 (5 programs with each 4 segments), alternative controllers see page 84

Additional Equipment

- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load
- Charge control with temperature measurement in the working tube see page 38
- Three-zoned design (heated length from 500 mm) for optimization of temperature uniformity
- Alternative working tubes see page 32
- Gas supply systems 1, 15, 2 or 4 see page 34

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 ⁴ in kW	Electrical connection* in kg	Weight
		W ²	D	H			single-zoned	three-zoned				
R 50/250/12	1200	434	340	508	50	250	80	-	450	1.9	1-phase	22
R 50/500/12	1200	670	340	508	50	500	170	250	700	3.4	1-phase	34
R 120/500/12	1200	670	410	578	120	500	170	250	700	6.6	3-phase	44
R 170/750/12	1200	920	460	628	170	750	250	375	1070	10.6	3-phase	74
R 170/1000/12	1200	1170	460	628	170	1000	330	500	1400	13.7	3-phase	89
R 50/250/13	1300	434	340	508	50	250	80	-	450	1.9	1-phase	22
R 50/500/13	1300	670	340	508	50	500	170	250	700	3.4	1-phase	34
R 120/500/13	1300	670	410	578	120	500	170	250	700	6.6	3-phase	44
R 170/750/13	1300	920	460	628	170	750	250	375	1070	12.0	3-phase	74
R 170/1000/13	1300	1170	460	628	170	1000	330	500	1400	13.7	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.

⁴The connected load refers to the standard furnace and may increase for a furnace with additional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

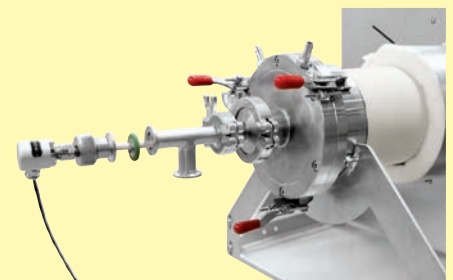
*Please see page 84 for more information about supply voltage



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



Gas panel for one non-flammable process (N₂, Ar, He, air, forming gas)



Thermocouple for charge control