



Tube furnace R 170/1000/13

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 an unbeatable price/performance ratio.

- Tmax 1200 °C or 1300 °C
- Single-zoned design as standard
- Dual shell housing made of sheets of textured stainless steel
- Only fiber materials are used which are not classified as carcinogenic according to TRGS 905, class 1 or 2
- Outer tube diameter of 50 mm to 170 mm, heated length from 250 mm to 1000 mm
- Working tube of C 530 ceramic including two fiber plugs as standard equipment
- Tmax 1200 °C: Type N thermocouple
- Tmax 1300 °C: Type S thermocouple
- Solid state relays provide for lownoise operation
- Standard working tube see chart on page 51
- Defined application within the constraints of the operating instructions
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive
- Controls description see page 72



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

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 and in the furnace chamber outside the tube see page 54
- Three-zoned design (heated length from 500 mm)
- Working tubes see chart on page 51
- Please see page 52 for additional equipment
- Gas supply systems for protective gas or vacuum operation see page 52
- Process control and documentation via VCD software package for monitoring, documentation and control see page 75

Model	Tmax °C ¹	Outer dimensions ⁴ in mm			Outer tube Ø in mm	Heated length in mm	Length constant temperature +/- 5 K in mm ¹		Tube length in mm	Connected load 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 ³	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 ³	1-phase	34
R 120/500/13	1300	670	410	578	120	500	170	250	700	6.5	3-phase	44
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 K

²Without tube

³Only valid for single-zone version

*Please see page 73 for more information about supply voltage
⁴External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.