

Трубчатые печи разъемного типа для горизонтальной или вертикальной эксплуатации до 1300 °C RSV

Технические характеристики

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Split-Type Tube Furnaces for Horizontal or Vertical Operation up to 1300 °C

These tube furnaces can be used for horizontal (RSH) or vertical (RSV) operation. The split-type design makes it easy to change the working tube. It allows for a comfortable exchange of various working tubes (e.g. working tubes made of different materials).

Using a wide range of accessories, these professional tube furnaces can be optimally tailored for your process. By adding different gas supply packages, you can work in a protective gas atmosphere, with gases or in a vacuum. In addition to the convenient standard controllers, modern PLC controls can also be used to control the process.



Tube furnace RSH 50/500/13

Standard Equipment

- Tmax 1100 °C or 1300 °C
- Single-zoned design
- RSV models with frame for vertical operation
- Split-type design for simple insertion of the working tube (opening temperature < 180 °C)
- Ceramic working tube C 530 including two fiber plugs for operation under air see page 32
- Thermocouple type N (1100 °C) or type S (1300 °C)
- Heating elements on support tubes provide for free radiation see page 38
- RSH: switchgear and control unit integrated in furnace housing
- RSH: controller with touch operation B510 (5 programs with each 4 segments), alternative controllers see page 84
- RSV: switchgear and control unit separate from furnace in own wall or standing cabinet
- RSV: controller with touch operation B500 (5 programs with each 4 segments), alternative controllers see page 84



Tube furnace RSV 170/1000/11 with gas-tight quartz glass working tube and water-cooled vacuum flanges

Additional Equipment

- Charge control with temperature measurement in the working tube see page 38
- Three-zone control for optimization of temperature uniformity see page 38
- Alternative working tubes see chart page 32
- Cooling systems for accelerated cooling of the working tube and charge
- Gas supply systems 1, 15 or 2 for non-flammable process gas operation see page 34
- Gas supply system 4 for hydrogen operation see page 36
- Vacuum package to evacuate the working tube see page 37



Tube furnace RSH 80/500/13 with gas-tight quartz glass working tube and air-cooled vacuum flanges (gas supply system 15)

Model	Tmax ¹ in °C	Outer dimensions ² in mm			Max. outer tube Ø in mm	Heated length in mm	Length constant temperature ¹ +/- 5 K in mm		Tube length in mm	Max. connected load in kW		Electrical connection*	Weight in kg
		W ³	D	H			single zoned	three zoned		1100 °C	1300 °C		
RSH 50/250/..		420	385	510	50	250	80	-	450	1.9	1.9	1-phase	25
RSH 50/500/..		670	385	510	50	500	170	250	700	3.4	3.4	1-phase ⁴	36
RSH 80/500/..		670	450	580	80	500	170	250	850	6.6	6.6	3-phase ⁴	46
RSH 80/750/..		920	500	920	80	750	250	375	1100	10.6	12.0	3-phase ⁴	76
RSH 80/1000/..	1100	1170	500	920	80	1000	330	500		13.7	13.7	3-phase ⁴	91
RSH 120/500/..	or	670	450	580	120	500	170	250	850	6.6	6.6	3-phase ⁴	46
RSH 120/750/..	1300	920	500	920	120	750	250	375	1100	10.6	12.0	3-phase ⁴	76
RSH 120/1000/..		1170	500	920	120	1000	330	500	1350	13.7	13.7	3-phase ⁴	91
RSH 170/750/..		920	500	920	170	750	250	375	1100	10.6	12.0	3-phase ⁴	76
RSH 170/1000/..		1170	500	920	170	1000	330	500	1350	13.7	13.7	3-phase ⁴	91
RSV 50/250/..		410	585	975	50	250	80	-	450	1.9	1.9	1-phase	25
RSV 50/500/..		410	585	1225	50	500	170	250	700	3.4	3.4	3-phase ⁴	36
RSV 80/500/..		480	585	1225	80	500	170	250	850	6.6	6.6	3-phase ⁴	46
RSV 80/750/..		540	635	1480	80	750	250	375	1100	10.6	12.0	3-phase ⁴	76
RSV 80/1000/..	1100	540	635	1730	80	1000	330	500		13.7	13.7	3-phase ⁴	91
RSV 120/500/..	or	480	585	1225	120	500	170	250	850	6.6	6.6	3-phase ⁴	46
RSV 120/750/..	1300	540	635	1480	120	750	250	375	1100	10.6	12.0	3-phase ⁴	76
RSV 120/1000/..		540	635	1730	120	1000	330	500	1350	13.7	13.7	3-phase ⁴	91
RSV 170/750/..		540	635	1480	170	750	250	375	1100	10.6	12.0	3-phase ⁴	76
RSV 170/1000/..		540	635	1730	170	1000	330	500	1350	13.7	13.7	3-phase ⁴	91

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

²External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

³Without tube

⁴At 3-phase execution an N conductor ist required (3/N/PE)

*Please see page 84 for more information about supply voltage



Tube furnace RSH 80/500/13 with gas tight tube and water-cooled flanges



RSH 120/500/11S with sliding furnace



RSH 210/1000/11S with quartz glass working tube and gas supply package 2



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