

Universal High-Temperature Tube Furnaces with Silicon Carbide Rod Heating Gas Atmosphere or Vacuum



RHTC 80-230/15

RHTC 80-450/15 with manual gas supply system

RHTC 80-230/15 - RHTC 80-710/15

These compact tube furnaces with SiC rod heating and integrated switchgear and controller can be used universally for many processes. With an easy to replace working tube as well as additional standard equipment options, these furnaces are flexible and can be used for a wide range of applications. The high-quality fiber insulation ensures fast heating and cooling times. The SiC heating rods installed parallel to the working tube ensure excellent temperature uniformity. The price-performance ratio for this temperature range is unbeatable.

- Tmax 1500 °C
- Housing made of sheets of textured stainless steel
- High-quality fiber insulation
- Active cooling of housing for low surface temperatures
- Type S thermocouple
- Solid state relays provide for low-noise operation
- Prepared for assembly of working tubes with water-cooled flanges
- Ceramic tube, C 799 quality
- Standard working tube see chart on page 43
- Controls description see page 60

Additional equipment

- Over-temperature limiter with manual reset for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect furnace and load
- Charge control with temperature measurement in the working tube and in the furnace chamber outside the tube see page 46
- Fiber plugs
- Check valve at gas outlet avoids intrusion of false air
- Working tubes for operation with water-cooled flanges
- Display of inner tube temperature with additional thermocouple
- Alternative gas supply systems for protective gas or vacuum operation see page 44
- Alternative working tubes see chart on page 43



SiC rod heating

Model	Tmax °C ³	Outer dimensions in mm			Outer tube Ø /mm	Heated length/mm	Length constant temperature ΔT 10 K in mm	Tube length in mm	Connected load kW	Electrical connection*	Weight in kg
		W	D	H							
RHTC 80-230/15	1500	600	430	580	80	230	80	600	7.5	3-phase ²	50
RHTC 80-450/15	1500	820	430	580	80	450	150	830	11.3	3-phase ¹	70
RHTC 80-710/15	1500	1070	430	580	80	710	235	1080	13.8	3-phase ¹	90

¹Heating only between two phases

²Heating only between phase 1 and neutral

*Please see page 60 for more information about supply voltage

³Tmax. is reached outside the tube. Realistic working temperature inside the tube is approx. 50 °C lower.