

# High-Temperature Tube Furnaces with SiC Rod Heating up to 1600 °C

These compact tube furnaces with SiC rod heating and integrated switchgear with controller can be used universally for many processes. They represent an inexpensive variant in the high-temperature range. The standard mounting options for accessories make them flexible in use for a wide range of applications. The SiC heating elements arranged parallel to the working tube provide for an excellent temperature uniformity.



Tube furnace RHTC 80/450/16

## Standard Equipment

- Tmax 1600 °C
- Working temperature 1500 °C, increased wear and tear must be expected in case of working at higher temperatures
- Active cooling of housing for low surface temperatures
- Ceramic working tube C 799 including two fiber plugs for operation under air see page 32
- Type S thermocouple
- SiC heating elements, easy to replace
- Controller with touch operation P580 (50 programs with each 40 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
- Alternative working tubes see page 32
- Gas supply systems 1, 2 or 4 see page 34

Model	Tmax <sup>1</sup> in °C	Outer dimensions <sup>2</sup> in mm			Outer tube Ø in mm	Heated length in mm	Length constant temperature <sup>1,6</sup> +/- 5 K in mm	Tube length in mm	Connected load <sup>7</sup> in kW	Electrical connection*	Weight in kg
		W	D	H							
RHTC 80/230/16	1600 <sup>5</sup>	600	440	585	80	230	120	600	7.4	3-phase <sup>3</sup>	50
RHTC 80/450/16	1600	820	440	585	80	450	210	830	11.0	3-phase <sup>4</sup>	70
RHTC 80/710/16	1600	1075	440	585	80	710	345	1080	13.4	3-phase <sup>4</sup>	90

<sup>1</sup>Values outside the tube. Difference to temperature inside the tube up to + 50 K

<sup>2</sup>External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

<sup>3</sup>Heating only between phase 1 and neutral

<sup>4</sup>Heating only between two phases

<sup>7</sup>The 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

<sup>5</sup>For standard equipment

<sup>6</sup>For standard equipment. Tmax 1500 °C with gas supply systems



Tube furnace RHTC 80-230/16 with gas supply system 2

SiC rod heating

Thermocouple for charge control