

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



High-temperature furnace LHTC 08/16



High-temperature furnace LHTCT 01/16



Furnace chamber with high-quality fiber materials and SiC heating rods on both sides of the furnace



Saggars with top lid



Over-temperature limiter

These powerful laboratory muffle furnaces are available for temperatures up to 1400 °C, 1500 °C, 1550 °C or 1600 °C. The durability of the SiC rods in periodic use, in combination with their high heating speed, make these high-temperature furnaces to all-rounders in the laboratory. Heating times of 40 minutes to 1400 °C can be achieved, depending on the furnace model and the conditions of use.

- Tmax 1400 °C, 1500 °C, 1550 °C or 1600 °C
- Working temperature 1500 °C (for high-temperature furnaces LHTC ../16), increased wear and tear must be expected in case of working at higher temperatures
- Dual shell housing made of textured stainless steel sheets with additional fan cooling for low surface temperature
- Only fiber materials are used which are not classified as carcinogenic according to TRGS 905, class 1 or 2
- Optional flap door (LHTC) which can be used as work platform or lift door (LHTCT) with hot surface facing away from the operator (High-temperature furnace LHTCT 01/16 only with lift door)
- Switching system with solid-state-relays, power tuned to the SiC rods
- Easy replacement of heating rods
- Adjustable air inlet opening, exhaust air opening in the roof
- 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

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
- Square saggar for charging of up to three layers see page 14
- Lid for top saggar
- Manual or automatic gas supply system
- Process control and documentation via VCD software package for monitoring, documentation and control see page 75

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions ⁴ in mm			Connected load kW	Electrical connection*	Weight in kg	Minutes to Tmax ³
		w	d	h		W	D	H ²				
LHTC(T) 03/14	1400	120	210	120	3.0	415	545	490	9.0	3-phase ¹	30	40
LHTC(T) 08/14	1400	170	290	170	8.0	490	625	540	13.0	3-phase	40	40
LHTC(T) 03/15	1500	120	210	120	3.0	415	545	490	9.0	3-phase ¹	30	50
LHTC(T) 08/15	1500	170	290	170	8.0	490	625	540	13.0	3-phase	40	50
LHTCT 01/16	1550	110	120	120	1.5	340	300	460	3.5	1-phase	18	40
LHTC(T) 03/16	1600	120	210	120	3.0	415	545	490	9.0	3-phase ¹	30	60
LHTC(T) 08/16	1600	170	290	170	8.0	490	625	540	13.0	3-phase	40	60

¹Heating only between two phases

²Plus maximum 240 mm for models LHTCT when open

⁴External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

*Please see page 73 for more information about supply voltage

³If connected at 230 V 1/N/PE resp. 400 V 3/N/PE