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

These powerful laboratory muffle furnaces are available for temperatures up to 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 25 - 30 minutes can be achieved, depending on the furnace model and the conditions of use.



High-temperature furnace LHTCT 01/16

Standard Equipment

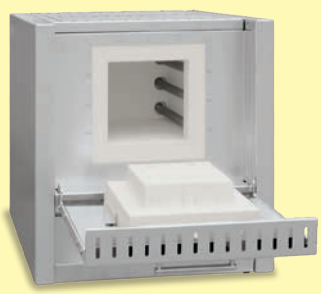
- Tmax 1550 °C or 1600 °C
- Working temperature 1500 °C (for high-temperature furnaces LHTC ../16), increased wear and tear must be expected in case of working at higher temperatures
- Optional flap door (LHTC) which can be used as work platform or lift door (LHTCT) with hot surface facing away from 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
- Controller with touch operation C550 (10 programs with each 20 segments) see page 84

Additional Equipment

- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load
- Protective gas connection to purge with non-flammable process, not gas tight
- Manual or automatic gas supply system

Model	Tmax	Inner dimensions in mm			Volume	Outer dimensions[1] in mm			Connected	Electrical	Weight	Heating time
	in °C	w	d	h	in l	W	D	H[2]	load[5] in kW	connection*	in kg	in min[3]
LHTCT 01/16	1550	110	120	120	1.5	340	335	485	3.5	1-phase	20	30
LHTC(T) 03/16	1600	120	210	120	3.0	415	545	490	8.5	3-phase[4]	38	30
LHTC(T) 08/16	1600	170	290	170	8.0	490	625	540	12.5	3-phase	58	25

[1]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.
*Please see page 84 for more information about supply voltage
[2]Plus maximum 255 mm for models LHTCT when open
[4]Heating only between two phases
[3]Heating time of the empty and closed furnace up to Tmax −100 K (connected to 230 V 1/N/PE rsp. 400 V 3/N/PE)
[5]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.



High-temperature furnace LHTC 08/16



Gas supply system for non-flammable process gas



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