

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

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 20 - 25 minutes to 1400 °C can be achieved, depending on the furnace model and the conditions of use.



High-temperature furnace LHTCT 01/16

Standard Equipment

- 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
- 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 C450 (10 programs with each 20 segments), alternative controllers see page 75

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
- Protective gas connection to purge with non-flammable protective or reaction gases, not gas tight
- Manual or automatic gas supply system

Model	Tmax in °C	Inner dimensions in mm			Volume in l	Outer dimensions ¹ in mm			Connected load in kW	Electrical connection*	Weight in kg	Heating time in min ³
		w	d	h		W	D	H ²				
LHTC(T) 03/14	1400	120	210	120	3.0	415	545	490	10.0	3-phase ⁴	30	20
LHTC(T) 08/14	1400	170	290	170	8.0	490	625	540	15.5	3-phase	40	20
LHTC(T) 03/15	1500	120	210	120	3.0	415	545	490	10.0	3-phase ⁴	30	25
LHTC(T) 08/15	1500	170	290	170	8.0	490	625	540	15.5	3-phase	40	20
LHTCT 01/16	1550	110	120	120	1.5	340	300	460	3.5	1-phase	18	30
LHTC(T) 03/16	1600	120	210	120	3.0	415	545	490	10.0	3-phase ⁴	30	30
LHTC(T) 08/16	1600	170	290	170	8.0	490	625	540	15.5	3-phase	40	25

¹External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

²Plus maximum 240 mm for models LHTCT when open

³Heating time of the empty and closed furnace up to Tmax - 100 K (connected to 230 V 1/N/PE resp. 400 V 3/N/PE)

*Please see page 75 for more information about supply voltage

⁴Heating only between two phases



High-temperature furnace LHTC 08/16



Gas supply system for non-flammable protective or reactive gas



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