

High-Temperature Chamber Furnaces with SiC Rod Heating



HTC 08/15



HTCT 01/16

HTCT 03/14 - HTCT 08/16

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 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.



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

- Tmax 1400 °C, 1500 °C, 1550 °C or 1600 °C
- Working Temperature 1500 °C (for models HTC ../16), increased wear and tear of heating elements must be expected in case of working at higher temperatures
- Model HTCT 01/16 with single phase connection
- High-quality fiber material, selected for the working temperature
- Housing made of sheets of textured stainless steel
- Dual shell housing for low external temperatures and high stability
- Optional flap door (HTC) which can be used as work platform or lift door (HTCT) with hot surface facing away from the operator (HTCT 01/16 only with lift door)
- Switching system with solid-state-relays, power tuned to the SiC rods
- Easy replacement of heating rods
- Controls description see page 60

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 saggars for charging of up to three layers see page 12
- Lid for top saggars
- Manual or automatic gas supply system
- Adjustable air intake opening in the furnace door, exhaust air opening in the roof



Saggars with top lid



Over-temperature limiter

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Connected load kW	Electrical connection*	Weight in kg	Minutes to Tmax ³
		w	d	h		W	D	H ²				
HTC, HTCT 03/14	1400	120	210	120	3.0	400	535	530	9.0	3-phase ¹	30	40
HTC, HTCT 08/14	1400	170	290	170	8.0	450	620	570	13.0	3-phase	40	40
HTC, HTCT 03/15	1500	120	210	120	3.0	400	535	530	9.0	3-phase ¹	30	50
HTC, HTCT 08/15	1500	170	290	170	8.0	450	620	570	13.0	3-phase	40	50
HTCT 01/16	1550	110	120	120	1.5	340	300	460	3.5	1-phase	18	40
HTC, HTCT 03/16	1600	120	210	120	3.0	400	535	530	9.0	3-phase ¹	30	60
HTC, HTCT 08/16	1600	170	290	170	8.0	450	620	570	13.0	3-phase	40	60

¹Heating only between two phases

²Plus maximum 270 mm for models HTCT when open

*Please see page 60 for more information about supply voltage

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