

## High-Temperature Furnaces with SiC Rod Heating up to 1550 °C

The high-temperature furnaces HTC 16/16 - HTC 450/16 are heated by vertically hung SiC rods, which makes them especially suitable for sintering processes up to a maximum operating temperature of 1550 °C. For some processes, e.g. for sintering zirconium oxide, the absence of interactivity between the charge and the SiC rods, these models are more suitable than the alternatives heated with molybdenum disilicide elements. The basic construction of these furnaces make them comparable with the already familiar models in the HT product line and they can be upgraded with the same additional equipment.



High-temperature furnace HTC 160/16

### Standard Equipment

- Tmax 1550 °C
- Dual shell housing with fan cooling for low shell temperatures
- Heating from both sides via vertically mounted SiC rods
- High-quality fiber insulation backed by special insulation
- Side insulation constructed with tongue and groove blocks provides for low heat loss to the outside
- Long-life roof insulation with special suspension
- Chain-guided parallel swivel door for defined opening and closing of the door without destroying the insulation
- Two-door design (front/back) for high-temperature furnaces > HTC 276/..
- Labyrinth sealing ensures the least possible temperature loss in the door area
- Reinforced floor as protection for bottom insulation
- Vapor vent in the furnace roof with motor-driven exhaust air flap, controlled via the extra function of the controller
- Heating elements switched via SCR's
- 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

### Additional Equipment

Like HT models see page 39

Model	Tmax in °C	Inner dimensions in mm			Volume in l	Outer dimensions <sup>1</sup> in mm			Heating Power in kW	Connected load in kW	Electrical connection*	Weight in kg
		w	d	h		W	D	H				
HTC 16/16	1550	200	300	260	16	810	700	1500	12.0	16.0	3-phase <sup>2</sup>	270
HTC 40/16	1550	300	350	350	40	1000	800	1620	12.0	16.1	3-phase	380
HTC 64/16	1550	400	400	400	64	1130	900	1670	18.0	41.1	3-phase	550
HTC 128/16	1550	400	800	400	128	1130	1290	1670	26.0	60.4	3-phase	750
HTC 160/16	1550	500	550	550	160	1250	1050	1900	21.0	39.2	3-phase	800
HTC 276/16	1550	500	1000	550	276	1300	1600	1900	36.0	72.5	3-phase	1100
HTC 450/16	1550	500	1150	780	450	1350	1740	2120	64.0	118.0	3-phase	1500

<sup>1</sup>External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.  
<sup>2</sup>Heating only between two phases

\*Please see page 75 for more information about supply voltage



Vertically mounted SiC rods and optional perforated air inlet tubes of the debinding system in a high-temperature furnace



Automatic gas supply system



Two-door design for high-temperature furnaces > HT 276/..