

## High-Temperature Furnaces with MoSi<sub>2</sub> Heating Elements up to 1800 °C



High-temperature furnace LHT 01/17 D

Designed as tabletop models, these compact high-temperature furnaces have a variety of advantages. The first-class workmanship using high-quality materials, combined with ease of operation, make these furnaces all-rounders in research and the laboratory. These high-temperature furnaces are also perfectly suited for the sintering of technical ceramics, such as zirconium oxide dental bridges.

- Tmax 1600 °C, 1750 °C, or 1800 °C
- High-quality molybdenum disilicide heating elements
- 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
- Compact design with lift door, opening upwards
- Adjustable air inlet
- Exhaust air opening in the roof
- Type B thermocouple
- 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 saggars for charging of up to three layers see page 14
- Protective gas connection to purge with non-flammable protective or reaction gases
- Manual or automatic gas supply system
- Process control and documentation via VCD software package for monitoring, documentation and control see page 75



High-temperature furnace LHT 03/17 D



Saggars with top lid

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions <sup>4</sup> in mm			Connected load kW	Electrical connection <sup>1</sup>	Weight in kg	Minutes to Tmax <sup>2</sup>
		w	d	h		W	D	H <sup>3</sup>				
LHT 02/16	1600	90	150	150	2	470	630	760+260	3.0	1-phase	75	30
LHT 04/16	1600	150	150	150	4	470	630	760+260	5.2	3-phase <sup>1</sup>	85	25
LHT 08/16	1600	150	300	150	8	470	810	760+260	8.0	3-phase <sup>1</sup>	100	25
LHT 01/17 D	1650	110	120	120	1	385	425	525+195	2.2	1-phase	28	10
LHT 03/17 D	1650	135	155	200	4	470	630	760+260	3.0	1-phase	75	60
LHT 02/17	1750	90	150	150	2	470	630	760+260	3.0	1-phase	75	60
LHT 04/17	1750	150	150	150	4	470	630	760+260	5.2	3-phase <sup>1</sup>	85	40
LHT 08/17	1750	150	300	150	8	470	810	760+260	8.0	3-phase <sup>1</sup>	100	40
LHT 02/18	1800	90	150	150	2	470	630	760+260	3.6	1-phase	75	75
LHT 04/18	1800	150	150	150	4	470	630	760+260	5.2	3-phase <sup>1</sup>	85	60
LHT 08/18	1800	150	300	150	8	470	810	760+260	9.0	3-phase <sup>1</sup>	100	60

<sup>1</sup>Heating only between two phases

<sup>2</sup>If connected at 230 V 1/N/PE resp. 400 V 3/N/PE

<sup>\*</sup>Please see page 73 for more information about supply voltage

<sup>3</sup>Including opened lift door

<sup>4</sup>External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.



Over-temperature limiter