

# High-Temperature Furnaces with Molybdenum Disilicide Heating Elements up to 1800 °C

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.



High-temperature furnace LHT 02/17

## Standard Equipment

- Tmax 1600 °C, 1750 °C, or 1800 °C
- Recommended working temperature 1750 °C (for models LHT ../18), increased wear and tear must be expected in case of working at higher temperatures
- High-quality heating elements made of molybdenum disilicide offer very good protection against chemical interaction between charge and heating elements
- Adjustable air inlet opening
- Exhaust air opening in the roof
- Thermocouple type B or type S (LHT ../17 D)
- Controller with touch operation P580 (50 programs with each 40 segments)



High-temperature furnace LHT 01/17 D

## Additional Equipment

- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load
- Port for thermocouple in the furnace roof
- Protective gas connection to purge with non-flammable process, not gas tight
- Manual or automatic gas supply system
- Stackable saggars for loading in up to two or three levels, depending on model



High-temperature furnace LHT 03/17 D



High-temperature furnace LHT 08/18

Model	Tmax in °C	Inner dimensions in mm			Volume in l	Outer dimensions <sup>1</sup> in mm			Max. connected load in kW	Electrical connection*	Weight in kg	Heating time in min <sup>3</sup>
		w	d	h		W	D	H <sup>2</sup>				
LHT 02/16	1600	130	145	130	2	430	450	570+325	2.7	1-phase	33	28
LHT 04/16	1600	160	175	160	4	450	475	610+335	2.7	3-phase <sup>4</sup>	39	50
LHT 08/16	1600	200	200	200	8	500	500	650+370	5.3	3-phase <sup>4</sup>	47	33
LHT 01/17 D	1650	110	120	120	1	385	425	525+195	2.7	1-phase	28	27
LHT 03/17 D	1650	135	135	200	4	412	450	595+300	2.7	1-phase	38	57
LHT 02/17	1750	130	145	130	2	430	450	570+325	2.7	1-phase	33	46
LHT 04/17	1750	160	175	160	4	450	475	610+335	2.7	3-phase <sup>4</sup>	39	90
LHT 08/17	1750	200	200	200	8	500	500	650+370	5.3	3-phase <sup>4</sup>	47	50
LHT 02/18	1800	130	145	130	2	430	450	570+325	2.7	1-phase	33	56
LHT 04/18	1800	160	175	160	4	450	475	610+335	2.7	3-phase <sup>4</sup>	39	106
LHT 08/18	1800	200	200	200	8	500	500	650+370	5.3	3-phase <sup>4</sup>	47	60

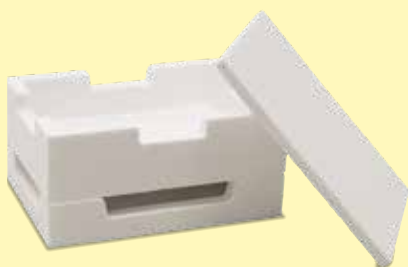
<sup>1</sup>External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

<sup>2</sup>Including opened lift door

<sup>3</sup>Heating 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 84 for more information about supply voltage

<sup>4</sup>Heating only between two phases



Saggars with top lid



Furnace chamber with high-quality fiber materials and heating elements made of molybdenum disilicide on both sides



Example of an over-temperature limiter