

High-Temperature Chamber Furnaces with MoSi₂ Heating Elements as Table-Top Model



LHT 08/17



LHT 02/18 with gas supply system for four gases

LHT 02/16 - LHT 08/18

Designed as tabletop models, these compact high-temperature chamber 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 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
- Furnace chamber lined with first-class, durable fiber material
- Housing made of sheets of textured stainless steel
- Dual shell housing with additional fan cooling for low surface temperature
- Furnace sizes of 2, 4, or 8 liters
- Compact design with lift door, opening upwards
- Adjustable air inlet
- Exhaust air opening in the roof
- Type B thermocouple
- Switching system with phase-angle firing thyristors (SCRs)
- 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
- Process control and documentation with Controltherm MV software package see page 63
- Protective gas connection to purge with non-flammable protective or reaction gases
- Manual or automatic gas supply system



Saggars with top lid

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 ²
		w	d	h		W	D	H ³				
LHT 02/16	1600	90	150	150	2	470	700	750+350	3.0	1-phase	75	30
LHT 04/16	1600	150	150	150	4	470	700	750+350	5.2	3-phase ¹	85	25
LHT 08/16	1600	150	300	150	8	470	850	750+350	8.0	3-phase ¹	100	25
LHT 02/17	1750	90	150	150	2	470	700	750+350	3.0	1-phase	75	60
LHT 04/17	1750	150	150	150	4	470	700	750+350	5.2	3-phase ¹	85	40
LHT 08/17	1750	150	300	150	8	470	850	750+350	8.0	3-phase ¹	100	40
LHT 02/18	1800	90	150	150	2	470	700	750+350	3.6	1-phase	75	75
LHT 04/18	1800	150	150	150	4	470	700	750+350	5.2	3-phase ¹	85	60
LHT 08/18	1800	150	300	150	8	470	850	750+350	9.0	3-phase ¹	100	60

¹Heating only between two phases

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

*Please see page 60 for more information about supply voltage

³Including opened lift door



Over-temperature limiter