Chamber Furnaces with Brick Insulation or Fiber Insulation





Chamber furnace LH 30/14



LF furnace design provides for shorter heating and cooling times



Gas supply system for non-flammable protective or reactive gas with shutoff valve and flow meter with regulator valve, optionally with magnetic valve

Chamber furnace LH 216/12SW with scale to measure weight reduction during annealing

The chamber furnaces LH 15/12 - LF 120/14 have been trusted for many years as professional chamber furnaces for the laboratory. These furnaces are available with either a robust insulation of light refractory bricks (LH models) or with a combination insulation of refractory bricks in the corners and low heat storage, quickly cooling fiber material (LF models). With a wide variety of optional equipment, these chamber furnaces can be optimally adapted to your processes.

- Tmax 1200 °C, 1300 °C, or 1400 °C
- Dual shell housing with rear ventilation, provides for low shell temperatures
- High furnace chamber with five-sided heating for very good temperature uniformity
- Heating elements on support tubes ensure free heat radiation and a long service life
- Controller mounted on furnace door and removable for comfortable operation
- Protection of bottom heating and flat stacking surface provided by embedded SiC plate in the floor
- LH models: multi-layered insulation of light refractory bricks and special backup insulation
- LF models: high-quality fiber insulation with corner bricks for shorter heating and cooling times. Only fiber materials are used which are not classified as carcinogenic according to TRGS 905, class 1 or 2.
- Door with brick-on-brick seal, hand fitted
- Short heating times due to high installed power
- Self-supporting arch for high stability and greatest possible protection against dust
- Quick lock on door
- Motor driven exhaust air flap
- Freely adjustable air inlet integrated in furnace floor
- Base included
- 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





Chamber furnace LF 60/14 with fresh air fan to accelerate the cooling times

Additional equipment

- Parallel swinging door, pivots away from operator, for opening when hot
- Lift door with electro-mechanic linear drive
- Separate wall-mounting or floor standing cabinet for switchgear
- Cooling fan for shorter cycle times
- Protective gas connection to purge with non-flammable protective or reaction gases
- Manual or automatic gas supply system
- Scale to measure weight reduction during annealing

Process control and documentation via VCD software package or Nabertherm Control Center (NCC) for monitoring, documentation and control see page 75

Model	Tmax	Inner dimensions in mm			Volume	Outer o	Outer dimensions ² in mm			Electrical	Weight
	°C	w	d	h	in I	w	D	н	load kW	connection*	in kg
LH 15/12	1200	250	250	250	15	680	860	1230	5.0	3-phase ¹	170
LH 30/12	1200	320	320	320	30	710	930	1290	7.0	3-phase ¹	200
LH 60/12	1200	400	400	400	60	790	1080	1370	8.0	3-phase	300
LH 120/12	1200	500	500	500	120	890	1180	1470	12.0	3-phase	410
LH 216/12	1200	600	600	600	216	990	1280	1590	20.0	3-phase	450
LH 15/13	1300	250	250	250	15	680	860	1230	7.0	3-phase ¹	170
LH 30/13	1300	320	320	320	30	710	930	1290	8.0	3-phase ¹	200
LH 60/13	1300	400	400	400	60	790	1080	1370	11.0	3-phase	300
LH 120/13	1300	500	500	500	120	890	1180	1470	15.0	3-phase	410
LH 216/13	1300	600	600	600	216	990	1280	1590	22.0	3-phase	460
111 15/14	1400	250	250	250	15	680	860	1230	8.0	2 phonol	170
LH 15/14 LH 30/14	1400	320	320	320	30	710	930	1230	10.0	3-phase ¹ 3-phase ¹	200
LH 50/14 LH 60/14	1400	400	400	400	60	790	1080	1290	12.0		300
1							1180			3-phase	410
LH 120/14	1400	500	500	500	120	890		1470	18.0	3-phase	
LH 216/14	1400	600	600	600	216	990	1280	1590	26.0	3-phase	470
LF 15/13	1300	250	250	250	15	680	860	1230	7.0	3-phase ¹	150
LF 30/13	1300	320	320	320	30	710	930	1290	8.0	3-phase ¹	180
LF 60/13	1300	400	400	400	60	790	1080	1370	11.0	3-phase	270
LF 120/13	1300	500	500	500	120	890	1180	1470	15.0	3-phase	370
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LF 15/14	1400	250	250	250	15	680	860	1230	8.0	3-phase ¹	150
LF 30/14	1400	320	320	320	30	710	930	1290	10.0	3-phase ¹	180
LF 60/14	1400	400	400	400	60	790	1080	1370	12.0	3-phase	270
LF 120/14	1400	500	500	500	120	890	1180	1470	18.0	3-phase	370
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Chamber furnace LH 30/12 with manual lift door



Parallel swinging door for opening when hot

*Please see page 73 for more information about supply voltage ¹Heating only between two phases

²External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

