Chamber Furnaces with Brick Insulation or Fiber Insulation up to 1400 °C

These big 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.

Chamber furnace LH 30/14

Standard Equipment

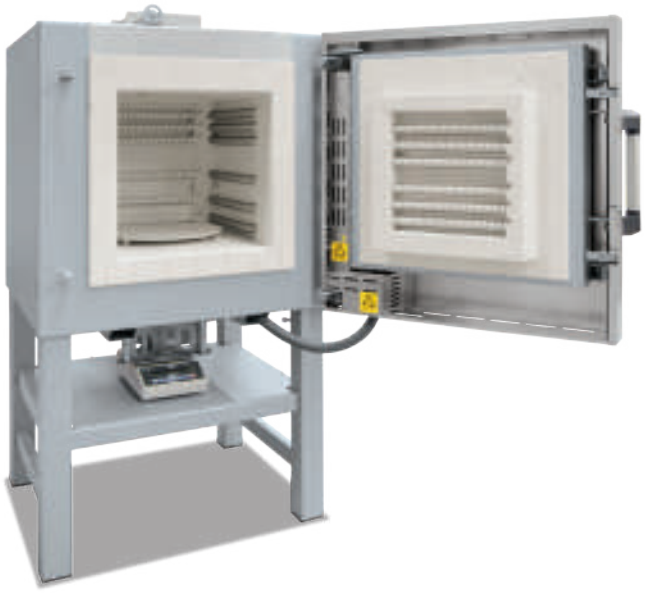
- Tmax 1200 °C, 1300 °C, or 1400 °C
- High furnace chamber with five-sided heating for very good temperature uniformity
- Heating elements on support tubes ensure free heat radiation and a long service life
- Controller mounted on furnace door and removable for comfortable operation
- Protection of bottom 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
- Door with brick-on-brick seal, hand fitted
- Gegenerously dimensioned heating provides for short heating times
- Self-supporting arch for high stability and greatest possible protection against dust
- Motorized exhaust air flaps
- Freely adjustable air inlet integrated in furnace floor
- Base included
- Controller with touch operation B500 (5 prgrams with each 4 segments), alternative controllers see page 84

Chamber furnace LH 216/12 with fresh air fan to accelerate the cooling times

Additional Equipment

- Parallel swinging door (user protected from heat radiation)
- Lift door with electro-mechanic linear drive for opening when hot
- Cooling system to cool the furnace with a defined temperature gradient or with a preset fresh air volume. Both operating modes can be switched on and off for different segments by means of the extra function of the controller.
- Protective gas connection to purge with non-flammable process gases
- Manual or automatic gas supply system
- Stainless steel exhaust hood as interface to customer's exhaust system
- Scale to measure weight reduction during annealing
- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load

Chamber furnace LH 30/12 with manual lift door



Chamber furnace LH 60/12 SW with scale to measure weight reduction during annealing

Model	Tmax	Inner dimensions in mm			Volume	Outer dimensions[1] in mm			Connected	Electrical	Weight
	in °C	w	d	h	in l	W	D	H	load[3] in kW	connection*	in kg
LH 15/12	1200	250	250	250	15	680	860	1230	5	3-phase[2]	170
LH 30/12	1200	320	320	320	30	710	930	1290	7	3-phase[2]	200
LH 60/12	1200	400	400	400	60	790	1180	1370	8	3-phase	300
LH 120/12	1200	500	500	500	120	890	1180	1470	12	3-phase	410
LH 216/12	1200	600	600	600	216	990	1280	1590	20	3-phase	470
LH 15/13	1300	250	250	250	15	680	860	1230	7	3-phase[2]	170
LH 30/13	1300	320	320	320	30	710	930	1290	8	3-phase[2]	200
LH 60/13	1300	400	400	400	60	790	1180	1370	11	3-phase	300
LH 120/13	1300	500	500	500	120	890	1180	1470	15	3-phase	410
LH 216/13	1300	600	600	600	216	990	1280	1590	22	3-phase	470
LH 15/14	1400	250	250	250	15	680	860	1230	8	3-phase[2]	170
LH 30/14	1400	320	320	320	30	710	930	1290	10	3-phase[2]	200
LH 60/14	1400	400	400	400	60	790	1180	1370	12	3-phase	300
LH 120/14	1400	500	500	500	120	890	1180	1470	18	3-phase	410
LH 216/14	1400	600	600	600	216	990	1280	1590	26	3-phase	470
LF 15/13	1300	250	250	250	15	680	860	1230	7	3-phase[2]	150
LF 30/13	1300	320	320	320	30	710	930	1290	8	3-phase[2]	180
LF 60/13	1300	400	400	400	60	790	1180	1370	11	3-phase	270
LF 120/13	1300	500	500	500	120	890	1180	1470	15	3-phase	370
LF 15/14	1400	250	250	250	15	680	860	1230	8	3-phase[2]	150
LF 30/14	1400	320	320	320	30	710	930	1290	10	3-phase[2]	180
LF 60/14	1400	400	400	400	60	790	1180	1370	12	3-phase	270
LF 120/14	1400	500	500	500	120	890	1180	1470	18	3-phase	370

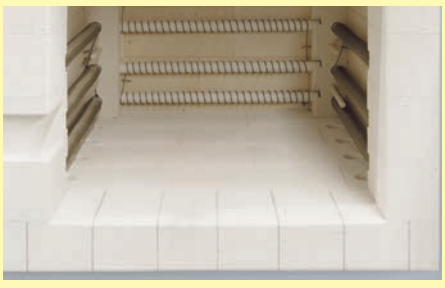
[1]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

*Please see page 84 for more information about supply voltage

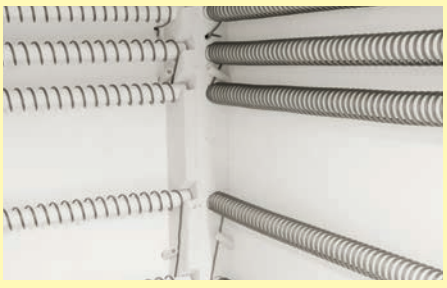
[2]Heating only between two phases

[3]The connected load refers to the standard furnace and may increase for a furnace with additional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Parallel swinging door for opening when hot



Model with brick base



LF furnace design provides for shorter heating and cooling times