Печи с верхней загрузкой или печи с нижней загрузкой с проволочным нагревом до 1400 °C H

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Top Hat Furnaces or Bottom Loading Furnaces with Wire Heating up to 1400 °C

Compared to chamber furnaces, the top hat and bottom loading furnaces are offering the advantage of convenient loading and unloading of complex charge setups on a compact footprint. The widely opening electrically or hydraulically driven hood allows for good access to the usable space. Depending on the process conditions, a top hat or bottom loading design is recommended. The system can be upgraded to include one or more tables that are manually or electrically driven. Adding further additional equipment, such as multi-zone controls to optimize temperature uniformity or controlled cooling systems to shorten process times, the furnaces can be individually adapted to the process requirements.

Bottom loading furnace H 1000/LB

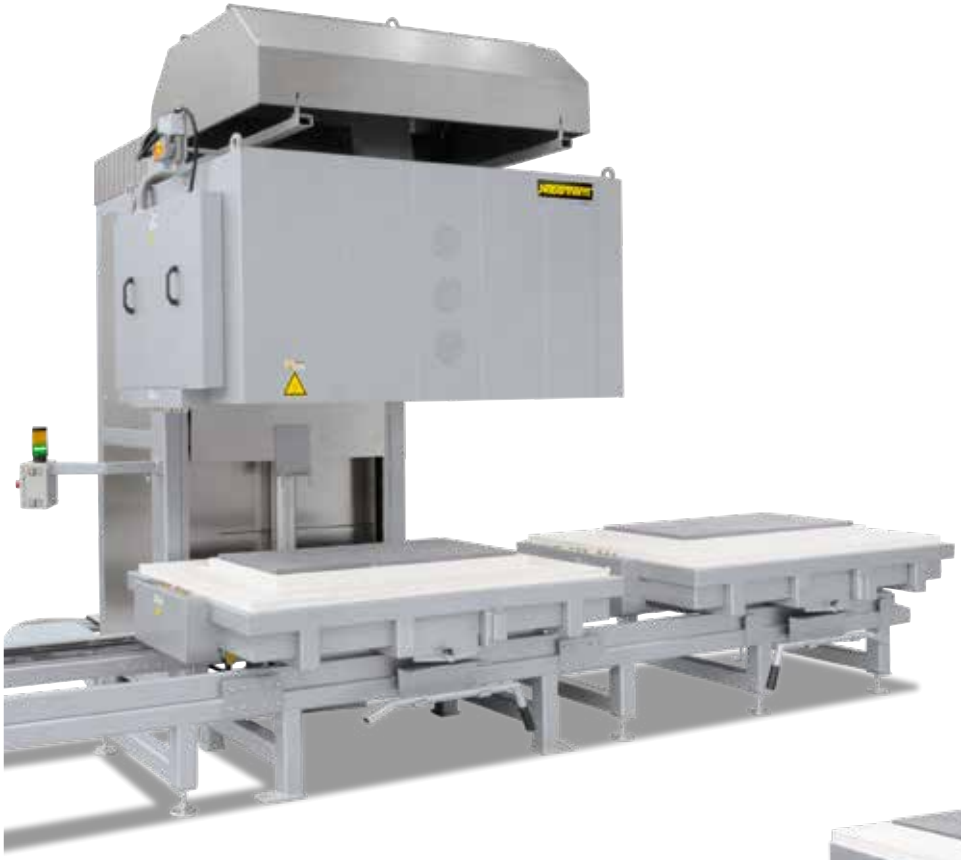
Standard Equipment

- Tmax 1280 °C
- Dual shell housing with rear ventilation, provides for low shell temperatures
- Top hat furnaces (model LT): Electric or hydraulic hood drive with fixed table
- Bottom loading furnaces (model LB): driven table and fixed top hat
- Five-sided heating from all four sides and from the table provides for a temperature uniformity up to +/– 5 °C according to DIN 17052-1 see page 94
- Heating elements mounted on support tubes provide for free radiation and long service life of the heating wire
- Bottom heating protected by SiC tiles which provide for a level stacking surface
- Multi-layer insulation consisting of lightweight refractory bricks backed by special insulation
- Long-life ceiling design with fiber insulation
- Automatic exhaust air flap on the furnace roof
- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load
- Controller with touch operation C540 (10 programs with each 20 segments), controls description see page 82
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive see page 87
- Freeware NTEdit for convenient program input via Excel™ for Windows™ on the PC see page 87
- Freeware NTGraph for evaluation and documentation of firings using Excel™ for Windows™ on the PC see page 87
- MyNabertherm App for online monitoring of the firing on mobile devices for free download see page 84

Bottom loading furnace H 1600/S for heat treatment of quartz glass. The furnace is designed to be opened at 1000 °C. The table can be pulled out to process components.

Additional Equipment

- Tmax to 1400 °C
- Cooling system with fresh air fan for rapid cooling
- Sides with fiber insulation to reduce cycle times
- Fabric cover on the fiber roof (and sides) to reduce fiber dust
- Protective gas connection for purging the furnace with non-flammable process gases
- Automatic gas supply systems
- Multi-zone control adapted to the particular furnace provides model for optimal temperature uniformity
- Commissioning of the furnace with test firing and temperature uniformity measurement (also with load) for the purpose of process optimization
- Additional tables, table changing system, also motorized
- Exhaust air and exhaust gas piping



Top hat furnace H 500 LT with table exchange system and manually movable tables

Bottom loading furnace HF 1220/LBS with fiber insulation, safety barrier to safeguard the danger zone and manually movable table for ease of loading and unloading

Model	Tmax	Inner dimensions in mm			Volume	Outer dimensions[1] in mm			Heating power in	Electrical	Weight
	°C	w	d	h	in l	W	D	H	kW[2]	connection*	in kg
H 125/LB, LT	1280	800	400	400	125	1550	1500	2200	12	3-phase	1250
H 250/LB, LT	1280	1000	500	500	250	1530	1700	2300	18	3-phase	1400
H 500/LB, LT	1280	1200	600	600	500	2020	1800	2500	36	3-phase	1800
H 1000/LB, LT	1280	1600	800	800	1000	2200	2000	2900	48	3-phase	2800
H 1350/LB, LT	1280	2800	620	780	1360	3750	2000	3000	75	3-phase	3500
H 3000/LB, LT	1280	3000	1000	1000	3000	4100	2500	3500	140	3-phase	6200

[1]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.
[2]Depending on furnace design connected load might be higher

*Please see page 86 for more information about supply voltage

Fiber insulation to reduce heating and cooling times

Two-hands operation with swivel arm

Fabric cover on the fiber roof (and sides) to reduce fiber dust

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