

Печи с принудительной конвекцией от 1000 литров

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Forced Convection Chamber Furnaces from 1000 Liter

electrically heated

These forced convection chamber furnaces are available for maximum operating temperatures of 450 °C, 600 °C or 850 °C and are suitable for a wide range of processes. Due to their robust and solid design even heavy loads can be heat treated. These furnaces are suited for use with baskets, pallets, and mobile furnace racks. The charging can be carried out with fork lift, pallet truck, or charging trolley. Charging can be simplified by roller conveyors, if necessary also motorized. All furnaces are available with electric heating or gas heating.



Forced convection chamber furnace NA 3240/45S



Forced convection chamber furnace NA 6600/60S with electro-hydraulic lift door, ram protection, motor driven in- and outlet flaps and status lights



Forced convection chamber furnace NA 4000/45

Standard Equipment for Models up to 600 °C (850 °C Models See Page 23)

- Tmax 450 °C or 600 °C
- Electrically heated
- Electric heating by means of heater coils
- Horizontal air circulation (type ../HA)
- High air exchange for perfect heat transfer
- Temperature uniformity up to ± 5 °C according to DIN 17052-1 see page 94
- Furnace chamber lined with alloy 1.4301 (DIN)
- High quality mineral wool insulation provides for low outer temperatures
- Inside unlocking device for furnaces with walk-in work space
- Furnace sizes suitable for common charging systems, such as pallets, baskets, etc.
- Double-wing door for furnaces with an internal width of more than 1500 mm (450 °C models). Furnaces for higher temperatures and with smaller sizes are equipped with a single-wing door.
- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load
- Controller with touch operation B500 (5 programs with 4 segments each), controls description see page 84

Additional Equipment for Models up to 600 °C

- Direct gas heating or upon request with indirect gas heating with radiation tube, e. g. for heat treatment of aluminum
- Entry ramps for pallet truck or drive-in tracks for entry of charging carts for models with floor insulation (not for 600 °C models)
- Electro-hydraulic lift door
- Cooling systems for faster cooling
- Motor-driven control of air inlet and exhaust air flaps for better ventilation of the furnace chamber
- Observation window and/or furnace chamber lighting (not for 600 °C models)
- Optimization of the temperature uniformity up to ± 3 °C according to DIN 17052-1 see page 94
- Charging systems or roller conveyors, also electrically driven provide for easy charging
- Power-reduced version to save energy on request



Forced convection chamber furnace NA 5600/45S



Forced convection chamber furnace NA 1500/45 on base with guide rails and end stop for a custom-built charging forklift, custom-built charge support and ramming protection



Forced convection chamber furnace N 1500/85HA with lift door and work piece holders in the furnace



Forced convection chamber furnace N 1500/85HA with electric charging system for heavy loads

Standard Equipment for Models 850 °C

- Tmax 850 °C
- Electrically heated
- Electric heating with heating elements on supports tubes
- Optimal air circulation for your charge by means of adjustable air outlets
- Horizontal air circulation (type ../HA)
- High air exchange provides for perfect heat transfer
- Base frame with 500 mm charging height
- Temperature uniformity up to ± 5 °C according to DIN 17052-1 see page 94
- Air baffles made of 1.4828 (DIN)
- High quality mineral wool insulation provides for low outer temperatures
- Furnaces sizes perfectly suited to accommodate common charging systems, e. g. like pallets or pallet boxes
- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load
- Controller with touch operation B500 (5 programs with 4 segments each), controls description see page 84

Additional Equipment for Models 850 °C

- Direct gas heating into the outlet of the air circulation fan
- Electro-hydraulic lift door
- Cooling systems for faster cooling
- Motor-driven air inlet and control of exhaust air flaps for better ventilation of the furnace chamber
- Optimization of the temperature uniformity up to ± 3 °C according to DIN 17052-1 see page 94
- Base frame for customized charging height
- Charging systems or roller conveyors, also electrically driven provide for easy charging



Forced convection chamber furnace NA 1500/45 on base with guide rails and end stop for a custom-built charging forklift, custom-built charge support and ramming protection

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions ¹ in mm			Circulation rate m³/h	Heating power in kW ²	Electrical connection*
		w	d	h		W	D	H			
NA 1000/45	450	1000	1000	1000	1000	2015	2150	1700	3600	36	3-phase
NA 1500/45	450	1000	1500	1000	1500	2015	2650	1700	3600	36	3-phase
NA 1500/45B	450	1500	1000	1000	1500	2515	2150	1700	3600	36	3-phase
NA 2000/45	450	1100	1500	1200	2000	2115	2650	1870	6400	48	3-phase
NA 2000/45B	450	1500	1100	1200	2000	2515	2250	1870	6400	48	3-phase
NA 2010/45	450	1000	1000	2000	2000	2015	2200	2670	9000	48	3-phase
NA 2880/45	450	1200	1200	2000	2880	2215	2400	2670	9000	60	3-phase
NA 4000/45	450	1500	2200	1200	4000	2515	3350	1870	6400	60	3-phase
NA 4000/45B	450	2200	1500	1200	4000	3315	2650	1870	6400	60	3-phase
NA 4010/45	450	1000	2000	2000	4000	2015	3200	2670	9000	60	3-phase
NA 4010/45B	450	2000	1000	2000	4000	3015	2200	2670	9000	60	3-phase
NA 4500/45	450	1500	1500	2000	4500	2550	2750	2670	9000	60	3-phase
NA 7200/45	450	2000	1500	2400	7200	3050	2750	3070	9000	108	3-phase
NA 1000/60	600	1000	1000	1000	1000	2015	2150	1700	3600	36	3-phase
NA 1500/60	600	1000	1500	1000	1500	2015	2650	1700	3600	36	3-phase
NA 1500/60B	600	1500	1000	1000	1500	2515	2150	1700	3600	36	3-phase
NA 2000/60	600	1100	1500	1200	2000	2115	2650	1870	6400	48	3-phase
NA 2000/60B	600	1500	1100	1200	2000	2515	2250	1870	6400	48	3-phase
NA 2010/60	600	1000	1000	2000	2010	2015	2200	2670	9000	48	3-phase
NA 2880/60	600	1200	1200	2000	2010	2215	2400	2670	9000	60	3-phase
NA 4000/60	600	1500	2200	1200	4000	2515	3350	1870	6400	60	3-phase
NA 4000/60B	600	2200	1500	1200	4000	3315	2650	1870	6400	60	3-phase
NA 4010/60	600	1000	2000	2000	4010	2015	3200	2670	9000	60	3-phase
NA 4010/60B	600	2000	1000	2000	4010	3015	2200	2670	9000	60	3-phase
NA 4500/60	600	1500	1500	2000	4500	2550	2750	2670	9000	60	3-phase
NA 7200/60	600	2000	1500	2400	7200	3050	2750	3070	9000	108	3-phase
N 1000/85HA	850	1000	1000	1000	1000	2100	2160	1900	3400	40	3-phase
N 1500/85HA	850	1500	1000	1000	1500	2600	2000	1900	5040	40	3-phase
N 1500/85HA1	850	1000	1500	1000	1500	2100	2600	1900	5040	40	3-phase
N 2000/85HA	850	1500	1100	1200	2000	2700	2320	2100	6800	60	3-phase
N 2000/85HA1	850	1100	1500	1200	2000	2300	2800	2100	6800	60	3-phase
N 4000/85HA	850	1500	2200	1200	4000	2700	3700	2100	12600	90	3-phase

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

²Depending on furnace design connected load might be higher

*Please see page 86 for more information about supply voltage



Drive-in ramps at furnaces with bottom insulation for processes which require a good temperature uniformity



Forced convection chamber furnaces, gas fired, e. g., with compact burner



Enclosed heater coils on electrically heated models



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