High-Temperature Ovens, Forced Convection Chamber Furnaces up to 850 °C

These chamber furnaces with air circulation are characterized by their extremely high temperature uniformity. Hence, they are especially suitable for processes such as annealing, crystalizing, preheating, curing, but also for numerous processes in tool making. Due to the modular concept, the forced convection furnaces can be adjusted to the process requirements by adding suitable equipment.

Forced convection chamber furnace NAT 15/65 as table-top model

Standard Equipment

- Tmax 450 °C, 650 °C, or 850 °C
- Horizontal air circulation with optimum distribution through stainless steel baffles
- Swing door hinged on the right
- Temperature uniformity up to +/– 4 °C according to DIN 17052-1 (NAT 15/65 and NAT 30/85 up to +/– 5 °C) in the empty work space see page 71
- One frame sheet and rails for two additional trays included in the scope of delivery (NAT 15/65 and NAT 30/85 without frame sheet)
- Base frame included in the delivery, NAT 15/65 and NAT 30/85 designed as table-top model
- Controller B400/B410 (5 programs with each 4 segments), alternative controllers see page 75

Forced convection chamber furnace NA 30/65 with manual lift door and protective gas box

Additional Equipment (not for Model NAT 15/65 and NAT 30/85)

- Optimization of the temperature uniformity up to +/– 3 °C according to DIN 17052-1 in the empty work space see page 71
- Air inlet and exhaust air flaps when used for drying
- Controlled fan assisted cooling
- Manual lift door (up to model NA 120/..)
- Pneumatic lift door
- Air circulation with speed control, recommendable for processes with light or sensitive charge
- Additional frame sheet
- Gas supply boxes different charging methods
- Feed and charging aids
- Charge control with documentation of the charge thermocouple

Forced convection chamber furnace NA 120/45

Forced convection chamber furnace NA 250/85

Model	Tmax	Inner dimensions in mm			Volume	Outer dimensions[3] in mm			Connected	Electrical	Weight
	in °C	w	d	h	in l	W	D	H	load in kW	connection*	in kg
NA 30/45	450	290	420	260	30	1040	1290	1385	3.6	1-phase	285
NA 60/45	450	350	500	350	60	1100	1370	1475	6.6	3-phase	350
NA 120/45	450	450	600	450	120	1250	1550	1550	9.8	3-phase	460
NA 250/45	450	600	750	600	250	1350	1650	1725	12.8	3-phase	590
NA 500/45	450	750	1000	750	500	1550	1900	1820	18.8	3-phase	750
NA 675/45	450	750	1200	750	675	1550	2100	1820	25.0	3-phase	900
NAT 15/65[1]	650	295	340	170	15	470	790	460	3.3	1-phase	60
NA 30/65	650	290	420	260	30	870	1290	1385	7.0	3-phase[2]	285
NA 60/65	650	350	500	350	60	910	1390	1475	9.0	3-phase	350
NA 120/65	650	450	600	450	120	990	1470	1550	13.0	3-phase	460
NA 250/65	650	600	750	600	250	1170	1650	1680	21.0	3-phase	590
NA 500/65	650	750	1000	750	500	1290	1890	1825	28.0	3-phase	750
NA 675/65	650	750	1200	750	675	1290	2100	1825	28.0	3-phase	900
NAT 30/85[1]	850	320	320	300	30	800	800	590	6.0	1-phase	90
NA 60/85	850	350	500	350	60	790	1330	1440	11.0	3-phase	315
NA 120/85	850	450	600	450	120	890	1420	1540	14.0	3-phase	390
NA 250/85	850	600	750	600	250	1120	1690	1810	23.0	3-phase	840
NA 500/85	850	750	1000	750	500	1270	1940	1960	34.0	3-phase	1150
NA 675/85	850	750	1200	750	675	1270	2190	1960	34.0	3-phase	1300

[1]Table-top model
[2]Heating only between two phases
[3]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

*Please see page 75 for more information about supply voltage

Port for thermocouple

Tray

Roller conveyor in furnace chamber