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Forced Convection Chamber Furnaces

electrically heated

Due to their very good temperature uniformity, these forced convection chamber furnaces with air circulation are suitable for processes such as stress relieving, artificial aging, and cooling glass as well as pre-heating glass molds. To burn in release agents in glass molds, to burn in organic pastes or to sterilize laboratory glassware, the forced convection chamber furnaces are equipped with the corresponding passive safety concepts. The modular design of the forced convection chamber furnaces allows them to be adapted with appropriate accessories to suit process requirements.



Forced convection chamber furnace NA 120/65

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 in the empty work space see page 94
- One frame sheet and rails for two additional trays included in the scope of delivery
- Base frame included in the delivery
- Controller with touch operation B500 (5 programs with each 4 segments), alternative controllers see page 86

Additional Equipment

- Optimization of the temperature uniformity up to ± 3 °C according to DIN 17052-1 in the empty work space see page 94
- Air inlet and exhaust air flaps when used for drying
- Controlled cooling with Controller P570, for example, to relieve stresses in glass at low cooling rates (optional: PLC with controlled cooling and optimized control accuracy for cooling rates as low as 0.2 °C per hour)
- Manual lift door for forced convection chamber furnace NA 120/65 and NA 120/85
- Pneumatic lift door from forced convection chamber furnace NA 250/65 upwards
- 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
- Safety technology according to EN 1539 (models NA .. LS) for charges containing solvents
- Inlets, measuring frames and thermocouples for TUS measurements charge or comparative measurements
- Charge control with documentation of the charge thermocouple

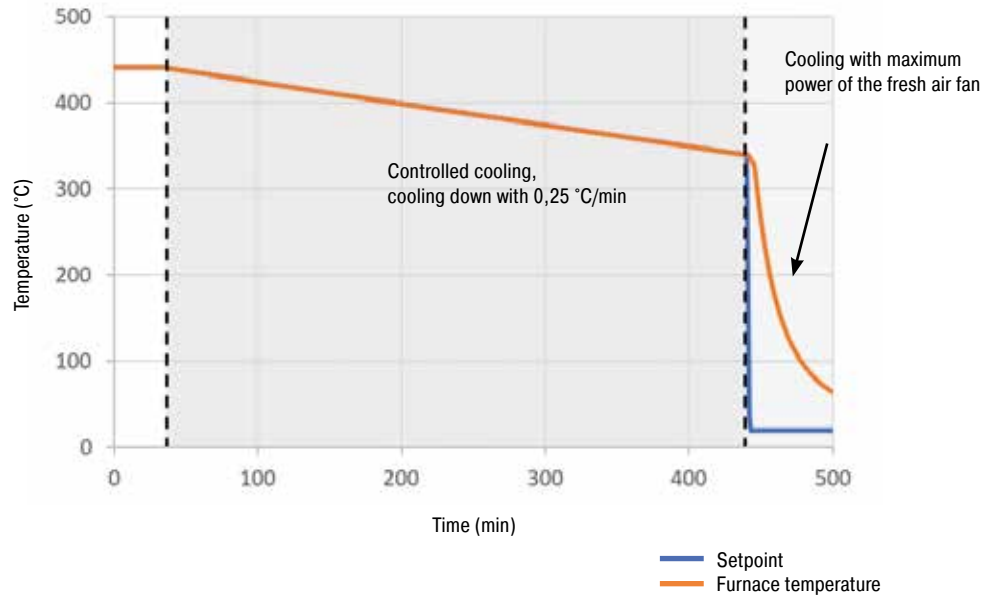


Forced convection chamber furnace NA 120/45



Forced convection chamber furnace NA 60/85 with manual lift door and protective gas box for front loading

Temperature curve with additional equipment „controlled cooling“ switched on



Model	Tmax	Inner dimensions in mm			Volume in l	Outer dimensions ¹ in mm			Heating power in kW ²	Electrical connection*	Weight in kg	Heat-up time ³ to Tmax in minutes	Cool-down time ³ from Tmax to 150 °C in minutes	
	°C	w	d	h		W	D	H					Flaps ⁴	Fan cooling ⁴
NA 120/45	450	450	600	450	120	1075	1475	1500	9.0	3-phase	280	60	90	30
NA 250/45	450	600	750	600	250	1250	1660	1670	12.0	3-phase	650	60	120	30
NA 500/45	450	750	1000	750	500	1400	1910	1810	18.0	3-phase	800	90	240	45
NA 120/45 LS	450	450	600	450	120	1250	1550	1950	18.0	3-phase	450	60	-	-
NA 250/45 LS	450	600	750	600	250	1350	1650	2080	24.0	3-phase	520	60	-	-
NA 500/45 LS	450	750	1000	750	500	1550	1900	2220	24.0	3-phase	730	90	-	-
NA 60/65	650	350	500	350	60	930	1310	1435	9.0	3-phase	240	90	210	30
NA 120/65	650	450	600	450	120	1030	1410	1535	12.0	3-phase	280	90	240	60
NA 250/65	650	600	750	600	250	1250	1700	1750	20.0	3-phase	650	90	480	60
NA 500/65	650	750	1000	750	500	1400	1950	1900	27.0	3-phase	850	90	600	90
NA 60/85	850	350	500	350	60	930	1310	1435	9.0	3-phase	315	150	480	90
NA 120/85	850	450	600	450	120	1030	1410	1535	12.0	3-phase	390	150	480	120
NA 250/85	850	600	750	600	250	1260	1700	1810	20.0	3-phase	840	180	900	180
NA 500/85	850	750	1000	750	500	1410	1950	1960	30.0	3-phase	1150	180	900	210
NA 675/85	850	750	1200	750	675	1410	2150	1960	30.0	3-phase	1350	210	900	210

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

²Depending on furnace design connected load might be higher

³Approx. information in empty furnace

⁴Additional equipment

*Please see page 86 for more information about supply voltage



Port for thermocouple



Tray



Roller conveyor in furnace chamber



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