

Камерные печи с кирпичной изоляцией для охлаждения/снятия напряжений в стекле N

Технические характеристики

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Brick-Insulated Chamber Furnaces for Cooling/Relieving Stresses in Glass

The chamber furnaces to 900 °C are ideally suited for cooling and relieving stresses in glass. Other applications include sterilizing glass components after they have been cleaned and burning in coatings. Due to the five-sided heating and a special arrangement of the heating elements, the furnaces ensure good temperature uniformity. With an extensive range of additional equipment, these chamber furnaces can be adapted to suit many different process requirements.



Chamber furnace N 660/G with exhaust flue and switchgear on the side (special design)

Standard Equipment

- Tmax 900 °C
- Five-side heating provide for good temperature uniformity
- Heating elements on support tubes provide for free heat radiation and long service life
- Multi-layer insulation consisting of lightweight refractory bricks and backed by special fiber insulation
- Self-supporting and long-life ceiling construction, with bricks laid in arched construction
- Bottom heating protected by SiC tiles with an even stacking base
- Semi-automatic air inlet flap for chamber kilns up to 300 liters
- Infinitely adjustable, manual air inlet from 360 liters
- Exhaust air opening in the lid, including connection for an exhaust air tube (80 mm diameter) up to 300 liters
- Motorized exhaust air flap in the top of the furnace for optimum ventilation of the furnace chamber and for rapid cooling at low temperatures from 300 liters
- Frame included for furnaces up to 660 liters
- Controller mounted on furnace door and removable for comfortable operation
- Controller with touch operation C540 (10 programs with each 20 segments), controls description see page 86



Chamber furnace N 300/G with controlled cooling

Additional Equipment

- Automatic control of the air inlet flap (up to 300 liters)
- Motorized exhaust air flap for optimum ventilation of the furnace chamber and for rapid cooling at low temperatures (up to 300 liters, included from 360 liters)
- Cooling system, including P570 Controller with touch operation, to speed up furnace cooling with a fan and specified temperature gradients or a fixed volume of fresh air. Both operating modes can be activated for different segments, using an extra function of the controller.
- Protective gas connection for purging the furnace with non-flammable protective or reaction gases
- Automatic gas supply system for nitrogen or argon
- Multi-zone control for optimal temperature uniformity in the work space
- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load
- Metal charging trolley with inserts for Tmax 550 °C or Tmax 800 °C
- Special solutions with customer-specific diameters



Chamber furnace N 500/GS

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions ¹ in mm			Heating power in kW ²	Electrical connection*	Weight in kg
		w	d	h		W	D	H			
N 100/G	900	400	530	460	100	720	1130	1440	7	3-phase	275
N 150/G	900	450	530	590	150	770	1130	1570	9	3-phase	320
N 200/G	900	470	530	780	200	790	1130	1760	11	3-phase	375
N 200/GS	900	400	1000	500	200	795	1710	1605	16	3-phase	300
N 250/GS	900	500	1000	500	250	895	1710	1605	18	3-phase	370
N 300/G	900	550	700	780	300	870	1300	1760	15	3-phase	450
N 360/GS	900	600	1000	600	360	995	1710	1705	20	3-phase	500
N 440/G	900	600	750	1000	440	1000	1410	1830	20	3-phase	820
N 500/GS	900	600	1400	600	500	995	2110	1705	22	3-phase	1000
N 660/G	900	600	1100	1000	660	1000	1750	1830	26	3-phase	950
N 1000/G	900	800	1000	1250	1000	1390	1760	2000	40	3-phase	1680
N 1500/G	900	900	1200	1400	1500	1490	1960	2150	57	3-phase	2300
N 2200/G	900	1000	1400	1600	2200	1590	2160	2350	75	3-phase	2800

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

Charging trolley for model ³	Trolley dimensions in mm			Insert dimensions in mm			Removable rails	
	W	D	H	W	D	H	Quantity	Distance in mm
N 100/G	370	505	410	315	470	22	12	30
N 150/G	430	505	540	375	470	22	12	40
N 200/G	450	505	730	395	470	22	17	40
N 300/G	530	675	730	478	640	22	17	40

³Charging trolley for larger models available as a special design



Controlled cooling as additional equipment



Charging trolley for chamber furnace N 2200



Switchgear on the side (special design)



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