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Forced Convection Bogie Hearth Furnaces

The forced convection bogie hearth furnaces W 1000/60A - W 8300/85A are used when heavy charges weighing have to be heat-treated. They are ideal for processes such as solution like glass tempering or cooling from glass, for which a good temperature uniformity is crucial. The high-performance air circulation assures that the temperature uniformity achieved throughout the work space is outstanding. A broad selection of additional equipment enables these bogie hearth furnaces to be optimally adapted to suit specific processes.

Forced convection bogie hearth furnace W 10430/85AS

Standard Equipment

- Tmax 600 °C or 850 °C
- Dual shell housing with rear ventilation provides for low shell temperatures for the 850 °C models
- Swing door hinged on the right side
- Heating from chrome steel heating elements for the 600 °C models
- Heating from three sides (both side walls and the trolley) for the 850 °C models. Bottom heating protected by SiC tiles.
- Perforated sheet support or charging grid on the bogie for even load distribution
- High-performance air circulation fan with vertical circulation
- Temperature uniformity up to +/– 5 °C according to DIN 17052-1 see page 94
- Furnace chamber fitted with inner sheets made of stainless steel 1.4301 for 600 °C models and of 1.4828 for 850 °C models
- Insulation structured with high-quality mineral wool for 600 °C models
- Bogies with flanged wheels running on rails for easy and precise movement of heavy loads
- Electric chain-driven bogie in combination with rail operation for smooth movement of heavy loads from model W 4800
- 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), alternative controllers see page 86

Forced convection bogie hearth furnace W 3300/85A with perforated sheet support

Additional Equipment

- Electric chain-driven bogie in combination with rail operation for smooth movement of heavy loads up to Model W 4000
- Optimization of the temperature uniformity up +/– 3 °C according to DIN 17052-1 see page 94
- Different possibilities for an extension to a bogie hearth furnace plant:
  - Additional bogies
  - Bogie transfer system with parking rails to exchange bogies running on rails or to connect multiples furnaces
  - Motorized bogies and cross-traversal system
  - Fully automatic control of the bogie exchange
- Electro-hydraulic lift door
- Motorized fresh-air and exhaust air flaps, adjustable via the program
- Cooling systems for more rapid cooling
- Bar supports or grids for higher charge weights and/or better load distribution
- Commissioning of the furnace with test firing and temperature uniformity measurement (also with load) for the purpose of process optimization

Forced convection bogie hearth furnace W 19150/60AS for tempering of semi-finished borosilicate glass products

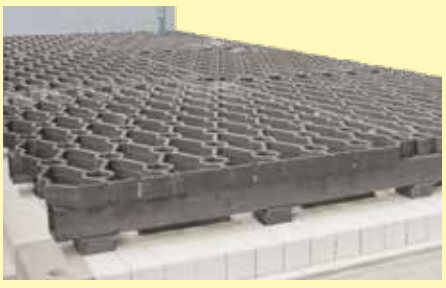
Model	Tmax	Inner dimensions in mm			Volume	Max. charging weight	Outer dimensions[1] in mm			Heating power	Electrical
	°C	w	d	h	in l	in kg	W	D	H	in kW[2]	connection*
W 1000/.. A	600	800	1600	800	1000	800	1780	2450	2350	48	3-phase
W 1600/.. A	600	1000	1600	1000	1600	1000	1920	2450	2510	48	3-phase
W 2200/.. A	600	1000	2250	1000	2200	1500	1980	3100	2560	96	3-phase
W 3300/.. A	600	1200	2250	1200	3300	1900	2180	3100	2750	96	3-phase
W 4000/.. A	600	1500	2250	1200	4000	2400	2480	3100	2800	120	3-phase
W 4800/.. A	600	1200	3300	1200	4800	2800	2180	4380	2850	120	3-phase
W 6000/.. A	600	1500	3300	1200	6000	3700	2480	4380	2900	144	3-phase
W 6600/.. A	600	1200	4600	1200	6600	4000	2280	5680	2780	144	3-phase
W 7500/.. A	600	1400	3850	1400	7500	4000	2380	4930	3020	144	3-phase
W 8300/.. A	600	1500	4600	1200	8300	5200	2580	5680	2780	192	3-phase
W 1000/.. A	850	800	1600	800	1000	800	1780	2450	2350	45	3-phase
W 1600/.. A	850	1000	1600	1000	1600	1000	1920	2450	2510	45	3-phase
W 2200/.. A	850	1000	2250	1000	2200	1500	1980	3100	2560	90	3-phase
W 3300/.. A	850	1200	2250	1200	3300	1900	2180	3100	2750	90	3-phase
W 4000/.. A	850	1500	2250	1200	4000	2400	2480	3100	2800	110	3-phase
W 4800/.. A	850	1200	3300	1200	4800	2800	2180	4380	2850	110	3-phase
W 6000/.. A	850	1500	3300	1200	6000	3700	2480	4380	2900	140	3-phase
W 6600/.. A	850	1200	4600	1200	6600	4000	2280	5680	2780	140	3-phase
W 7500/.. A	850	1400	3850	1400	7500	4000	2380	4930	3020	140	3-phase
W 8300/.. A	850	1500	4600	1200	8300	5200	2580	5680	2780	185	3-phase

[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

Cooling fan for accelerated cooling

Charge thermocouples with plug-in connection



Charging grid in an forced convection boogie hearth furnace for even load distribution

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