

Камерные печи до 260 °С KTR

Технические характеристики

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Chamber Ovens

electrically heated

The chamber ovens of the KTR range can be used for complex drying processes and heat treatment of charges to an application temperature of 260 °C. The high-performance air circulation enables optimum temperature uniformity throughout the work space. A wide range of accessories allow the chamber ovens to be modified to meet specific process requirements.



Chamber oven KTR 6125

Standard Equipment

- Tmax 260 °C
- Electrically heated (via a heating register with integrated chrome steel heating elements)
- Temperature uniformity up to ± 3 °C according to DIN 17052-1 (for design without track cutouts) see page 94
- High-quality mineral wool insulation provides for outer temperatures of < 25 °C above room temperature
- High air exchange for fast drying processes
- Double-wing door for furnaces KTR 2300 and larger
- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load
- Controller with touch operation B500 (5 programs with each 4 segments), alternative controllers see page 86



Direct gas-firing at a chamber oven

Additional Equipment

- Direct or indirect gas-fired
- Base frame to charge the oven via a charging forklift
- Additional door in the back for charging from both sides or to use the oven as lock between two rooms
- Fan system for faster cooling with manual or motor-driven control of the exhaust flaps
- Programmed opening and closing of exhaust air flaps
- Air circulation with speed control, recommendable for processes with light or sensitive charge
- Observation window and furnace chamber lighting
- Safety technology according to EN 1539 (models KTR .. LS) for charges containing solvents see page 17
- Design for clean room heat treatment processes
- Rotating systems e. g. for tempering processes
- All KTR-models are also available with Tmax 300 °C



Chamber oven KTR 1500 with charging cart



Chamber oven KTR 22500/S with chamber lightning and drive-in tracks with insulated plugs which provide for an optimal temperature uniformity



Chamber oven KTR 3100/S for curing of composites in vacuum bags incl. pump and necessary connections in the oven chamber

Accessories

- Adjustable plate shutters to adapt the air guide to the charge and improve temperature uniformity
- Guide-in tracks and shelves
- Shelves with 2/3 extraction with evenly distributed load on the whole shelf surface
- Platform cart in combination with drive-in tracks
- Charging cart with rack system in combination with drive-in tracks
- Sealing shoes for ovens with drive-in tracks to improve temperature uniformity in the work space



Chamber oven KTR 6250 with double doors in the front and in the back as well as guide-in tracks for use as sluice oven

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions ² in mm			Heating power in kW ¹		Electrical connection*
		w	d	h		W	D	H	KTR	KTR .. LS	
KTR 1000 (LS)	260	1000	1000	1000	1000	1820	1430	1890	18	36	3-phase
KTR 1500 (LS)	260	1000	1000	1500	1500	1820	1430	2390	18	36	3-phase
KTR 2000 (LS)	260	1100	1500	1200	2000	1920	1930	2090	18	36	3-phase
KTR 2300 (LS)	260	1250	1250	1500	2300	2120	1680	2460	27	36	3-phase
KTR 3100 (LS)	260	1250	1250	2000	3100	2120	1680	2960	27	45	3-phase
KTR 3400 (LS)	260	1500	1500	1500	3400	2370	1930	2460	45	54	3-phase
KTR 4500 (LS)	260	1500	1500	2000	4500	2370	1930	2960	45	54	3-phase
KTR 4600 (LS)	260	1750	1750	1500	4600	2620	2175	2480	45	54	3-phase
KTR 6000 (LS)	260	2000	2000	1500	6000	2870	2430	2460	54	54	3-phase
KTR 6125 (LS)	260	1750	1750	2000	6125	2620	2175	2980	45	63	3-phase
KTR 6250 (LS)	260	1250	2500	2000	6250	2120	3035	2960	54	63	3-phase
KTR 8000 (LS)	260	2000	2000	2000	8000	2870	2430	2960	54	81	3-phase
KTR 9000 (LS)	260	1500	3000	2000	9000	2490	3870	2920	72	90	3-phase
KTR 12300 (LS)	260	1750	3500	2000	12300	2620	4350	2980	90	108	3-phase
KTR 13250 (LS)	260	1250	5000	2000	13250	2120	6170	2960	108	108	3-phase
KTR 16000 (LS)	260	2000	4000	2000	16000	2870	4850	2960	108	120	3-phase
KTR 21300 (LS)	260	2650	3550	2300	21300	3600	4195	3380	108	120	3-phase
KTR 22500 (LS)	260	2000	4500	2500	22500	3140	5400	3500	108	120	3-phase

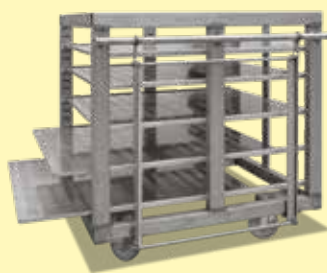
¹Depending on furnace design connected load might be higher

^{*}Please see page 86 for more information about supply voltage

²External dimensions vary when furnace is equipped with additional equipment. Dimensions on request. Outer dimensions from chamber ovens KTR .. LS are different



Adjustable plate shutters to adapt the air guide to the charge

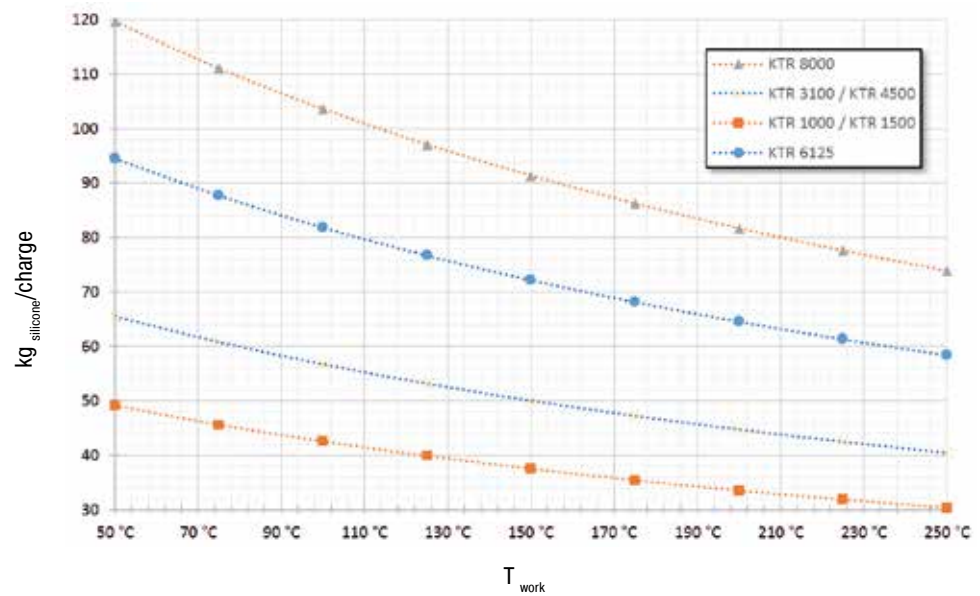


Charging cart with pull-out trays



Pull-out shelves, running on rolls

Max. amount of silicone per charge at a fresh air amount of 120 l/min/kg_{silicone}



Motor-driven rotary rack with baskets for moving the charge during heat treatment

To ensure safe operation of the oven when tempering silicone, the fresh air supply of the oven must be monitored. A fresh air volume flow of 100 - 120 l/min/kg silicone (6 - 7,2 m³/h/kg silicone) has to be considered. The graph shows the maximum amount of silicone depending on the operating temperature for various KTR models at a fresh air supply of 120 l/min/kg silicone. The oven will be carried out in accordance with the requirements of the standard EN 1539.



Drive-in ramp



KTR 3100 DT with rotating system for tempering of silicone parts. Four baskets will be charged in the frame and can be taken out separately



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