

Nabertherm

MORE THAN HEAT 30-3000 °C



LABORATORY

Furnaces and ovens for processes in air, under protective gases or in vacuum

Made
in
Germany

imLab
SCIENTIFIC EQUIPMENT
FOR LABORATORY & INDUSTRY

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Facts

- Production of Arts & Crafts furnaces, laboratory furnaces, dental furnaces and industrial furnaces since 1947
- Production site in Lilienthal/Bremen - Made in Germany
- 600 employees worldwide
- 150,000 customers in more than 100 countries
- Very wide product range of furnaces
- One of the biggest R&D departments in the furnace industry
- High vertical integration

Global Sales and Service Network

- Manufacturing only in Germany
- Decentralized sales and service close to the customer
- Own sales organization and long term sales partners in all important world markets
- Individual on-site customer service and consultation
- Fast remote maintenance options for complex furnaces
- Reference customers with similar furnaces or systems close to you
- Secured spare parts supply, many spare parts available from stock
- Further information see page 90

Setting Standards in Quality and Reliability

- Project planning and construction of tailor-made thermal process plants incl. material handling and charging systems
- Innovative controls and automation technology, adapted to customer needs
- Very reliable and durable furnace systems
- Customer test center for process assurance

Experience in Thermal Processing

- Thermal Process Technology
- Additive Manufacturing
- Advanced Materials
- Fiber Optics/Glass
- Foundry
- Laboratory
- Dental
- Arts & Crafts

Ovens with Safety Technology

for charges containing solvents according to EN 1539

Ovens in the TR .. LS range with safety equipment based on EN 1539 Type A are suitable for drying charges containing solvents. With their compact design, these ovens can be easily integrated into a laboratory or production process. Exhaust gases escape through an outlet on the back of the oven and can then be extracted or treated.



Oven TR 120 LS with safety technology according to EN 1539 for charges containing solvents

Standard Equipment

- Furnace technology based on ovens see page 42
- For a description of the safety technology refer to models NA ../45 LS
- Tmax 260 °C
- Temperature uniformity ± 8 K according to DIN 17052-1 in empty work space see page 77
- Controller with touch operation B510 (5 programs with 4 segments each), controls description see page 84

Additional Equipment

Refer to additional equipment for ovens on page 42

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions ³ in mm			Ma. connected load kW ²	Electrical connection*	Weight in kg	Minutes to Tmax ⁴	Grids		Total load max. ¹
		w	d	h		W	D	H					incl.	max.	
TR 60 LS	260	450	380	350	60	700	820	710	5.7	3-phase	100	20	1	4	96
TR 120 LS	260	650	380	500	120	900	820	870	6.7	3-phase	120	22	2	7	140
TR 240 LS	260	750	540	600	240	1000	990	970	6.7	3-phase	180	32	2	8	170
TR 450 LS	260	750	540	1100	450	1000	990	1470	13.3	3-phase	250	36	3	15	250

¹Maximum load per level 30 kg

²Connected load is higher with EN 1539 as additional equipment

³External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

⁴In empty, closed furnace when connected to 230 V 1/N/PE or 400 V 3/N/PE

*Please see page 84 for more information about supply voltage



Extricable metal grids to load the oven in different layers



Oven TR 60 S with rotary mechanism



Electrical rotating device (in this case with tailored platform for PARR autoclave containers)