

## Ovens, also with Safety Technology According to EN 1539



Oven TR 60 with adjustable fan speed



Oven TR 240



Electrical rotating device as additional equipment



Extricable metal grids to load the oven in different layers

With their maximum working temperature of up to 300 °C and air circulation, the ovens achieve a perfect temperature uniformity which is much better than in ovens of most competitors. They can be used for various applications such as e.g. drying, sterilizing or warm storing. Ample warehousing of standard models provides for short delivery times.

- Tmax 300 °C
- Working temperature range: + 5 °C above room temperature up to 300 °C
- Ovens TR 30 - TR 240 designed as tabletop models
- Ovens TR 450 and TR 1050 designed as floor standing models
- Horizontal, air circulation results in temperature uniformity better than +/- 5 °C see page 71
- Stainless steel chamber, alloy 304 (AISI)/(DIN material no. 1.4301), rust-resistant and easy to clean
- Only fiber materials are used which are not classified as carcinogenic according to TRGS 905, class 1 or 2
- Large handle to open and close the door
- Charging in multiple layers possible using removeable grids (number of removeable grids included, see table to the right)
- Large, wide-opening swing door, hinged on the right with quick release for models TR 30 - TR 450
- Double swing door with quick release for TR 1050
- TR 1050 equipped transport rollers
- Infinitely adjustable exhaust at the rear wall with operation from the front
- PID microprocessor control with self-diagnosis system
- Solid state relays provide for lownoise operation
- Defined application within the constraints of the operating instructions
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive
- Controls description see page 72



Oven TR 450



Oven TR 1050 with double door

**Additional equipment**

- Over-temperature limiter with adjustable cutout temperature for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the oven and load
- Infinitely adjustable fan speed of the air circulation fan
- Window for charge observing
- Further removeable grids with rails
- Side inlet
- Stainless steel collecting pan to protect the furnace chamber
- Door hinges on the left side
- Reinforced bottom plate
- Safety technology according to EN 1539 for charges containing liquid solvents (TR .. LS) up to model TR 240 LS, achievable temperature uniformity +/- 8 °C see page 71
- Transport castors for model TR 450
- Various modifications available for individual needs
- Upgrading available to meet the quality requirements of AMS 2750 E or FDA
- Process control and documentation via VCD software package for monitoring, documentation and control see page 75



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

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions <sup>3</sup> in mm			Connected load kW <sup>2</sup>	Electrical connection*	Weight in kg	Grids in- cluded	Grids max.	Max. total load <sup>1</sup>
		w	d	h		W	D	H						
TR 30	300	360	300	300	30	610	520	665	2.1	1-phase	45	1	4	80
TR 60	300	450	390	350	60	700	610	710	3.1	1-phase	90	1	4	120
TR 60 LS	260	450	360	350	57	700	680	710	5.2	3-phase	92	1	4	120
TR 120	300	650	390	500	120	900	610	860	3.1	1-phase	120	2	7	150
TR 120 LS	260	650	360	500	117	900	680	860	6.2	3-phase	122	2	7	150
TR 240	300	750	550	600	240	1000	780	970	3.1	1-phase	165	2	8	150
TR 240 LS	260	750	530	600	235	1000	850	970	6.2	3-phase	167	2	8	150
TR 450	300	750	550	1100	450	1000	780	1470	6.2	3-phase	235	3	15	180
TR1050	300	1200	670	1400	1050	1470	940	1920	9.4	3-phase	450	4	14	250

<sup>1</sup>Max load per layer 30 kg

<sup>2</sup>Please see page 73 for more information about supply voltage

<sup>3</sup>If EN 1539 is ordered connected load will increase

<sup>4</sup>External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.