

## Top Loaders, round/oval



Top 60/Leco



Top 100



Top 45



Top 220

### Top 45 - Top 220

Attractive design, low weight, and good firing results are only a few of the advantages of our top loaders Top 45 to Top 220. Castors come as a standard feature for ease of mobility. The perfect kiln for hobbyists or small work shops!

#### Top Quality:

- Heating elements embedded in grooves, heating from all sides
- Top-quality heating elements, optimum wire gauge and length for long life
- Solid state relays provide for low-noise operation
- Rapid switching cycles result in precise temperature control
- Type S thermocouple
- Lid interlock safety switch
- Multiple layers of insulation for low power consumption and low exterior temperatures
- Models Top 60eco ff. with special high-grade, energy-saving backing insulation
- Lightweight refractory bricks inside furnace chamber for clean firing results
- Housing made of sheets of textured stainless steel
- Lid with adjustable quick-release lock and padlock hasp
- Wear-free lid seal (brick on brick)
- Powerful gas dampers make lid opening very easy
- Infinitely adjustable air inlet in opening in the kiln bottom for good ventilation and short cooling times
- Exhaust air outlet on furnace side with stub for pipe of diameter 80 mm
- Lockable castors for easy transport of kiln without the need for lifting
- GS safety mark for controlled safety, CE

**Top Loaders, round/oval**



Top 140



Top 190

Models Top 60... for Tmax of 1200 °C and 230V please choose model Top 60, for Tmax of 1300 °C and 230V please choose model Top 60eco as energy-saving version. If 400V three-phase connection is available, we recommend model Top 60/R which fastly heats-up to the working temperature.

Controls description see page 25

**Additional equipment**

- Bottom heating for very good temperature uniformity for Top 130 - Top 190
- Two-zone control of heating via P 310 controller
- Raised base for Top 45 and Top 60
- Wall-bracket for controller with 2.5 m connecting cable

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Conencted load kW	Electrical connection*	Weight in kg
		w	d	h		W	D	H			
Top 45eco	1300	Ø 410	340	45	580	820	760	2.9	1-phase	60	
Top 45	1300	Ø 410	340	45	580	820	760	3.6	1-phase	60	
Top 60/Leco	1200	Ø 410	460	60	580	820	870	2.9	1-phase	70	
Top 60	1200	Ø 410	460	60	580	820	870	3.6	1-phase	70	
Top 60eco	1300	Ø 410	460	60	580	820	870	3.6	1-phase	70	
Top 60/R	1300	Ø 410	460	60	580	820	870	5.5	3-phase <sup>1</sup>	70	
Top 80	1300	Ø 480	460	80	660	910	890	5,5	3-phase	100	
Top 100 LE	1100	Ø 480	570	100	660	920	1000	6.0	1-phase <sup>2</sup>	100	
Top 100	1300	Ø 480	570	100	660	920	1000	7.0	3-phase	100	
Top 130	1300	Ø 590	460	130	770	1040	920	9.0	3-phase	110	
Top 140 LE	1100	Ø 550	570	140	730	990	1020	6.0	1-phase <sup>2</sup>	120	
Top 140	1300	Ø 550	570	140	730	990	1020	9.0	3-phase	120	
Top 160	1300	Ø 590	570	160	770	1040	1030	9.0	3-phase	130	
Top 190	1300	Ø 590	690	190	770	1040	1150	11.0	3-phase	150	
Top 220	1300	930   590	460	220	1100	1020	950	15.0	3-phase	150	



Top 190

<sup>1</sup>Heating only between two phases  
<sup>2</sup>Fusing of 32 A if connected to 230 V

\*Please see page 25 for more information about supply voltage

## Top Loaders, round/rectangular



### Top 16/R

The small but powerful Top 16/R is the ideal kiln for hobby ceramics, porcelain painting, and for small fusing jobs. This reasonably priced kiln model is also suitable for glazing samples and small pieces. This compact all-rounder is capable of doing everything larger models can do.

#### Top quality:

- Heating from all sides, elements embedded in grooves for protection
- Housing made of sheets of textured stainless steel
- Chamfered brick edges and mortar-free lid minimize kiln dirt contamination
- Tabletop model
- Controls description see page 25

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Connected load/kW	Electrical connection*	Weight in kg
		∅	h			W	D	H			
Top 16/R	1300	290	230		16	440	590	530	2.6	1-phase	32

\*Please see page 25 for more information about supply voltage



HO 70/R



HO 300

### HO 70/L - HO 300

The square top loaders from Nabertherm are extremely rugged. Heated from four walls and the floor with the elements protected in grooves.

#### Top quality:

- Heating from all sides and bottom, elements embedded in grooves for protection
- Housing made of sheets of textured stainless steel
- Castors for easy transport of the kiln without raising, lockable (HO 70 - HO 100)
- Infinitely adjustable air inlet opening in the kiln bottom for improved ventilation and reduced cooling time
- Air outlet on the side of the kiln with a bleed air collar, 80 mm diameter
- GS safety mark for controlled safety, CE
- Controls description see page 25



Firing chamber with heating from 5 sides

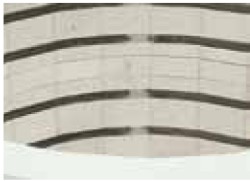
Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Connected load kW	Electrical connection*	Weight in kg
		w	d	h		W	D	H			
HO 70/L	1200	440	380	420	70	640	770	780	3.6	1-phase	120
HO 70/R	1300	440	380	420	70	640	770	780	5.5	3-phase <sup>1</sup>	120
HO 100	1300	480	430	490	100	680	820	850	5.5	3-phase <sup>1</sup>	160
HO 300	1300	920	570	610	320	1440	1015	950	15.0	3-phase	430

<sup>1</sup>Heating only between two phases

\*Please see page 25 for more information about supply voltage

## Top Loaders/Standard Model

Top 45 - Top 220



Heating elements are embedded in grooves for optimum protection against damage.



No limitations with top loaders: Our standard top loaders are also equipped with semiconductor relays. Switching of the heater during firing is nearly noise- and wear-free.



The integrated gas dampers facilitate opening and closing of the furnace lid. Even large models can be opened with no problems.



The high-quality insulation keeps the heat where it should be: inside the furnace chamber. Models Top 60eco ff. with high-grade, energy-saving backing insulation.



Top loaders have the same technology that the big ones have: adjustable fresh air inlet opening and exhaust air outlet to guide exhaust gases safely out of the kiln.



Exhaust air outlet with stub for pipe of diameter 80 mm at back of kiln for uniform venting of exhaust air.



Base mounted on castors. Kilns can be moved without lifting.



Comfortable and easy-to-use controller for precise temperature control. The information menu shows important data on power consumption and operating time. Please also read the description starting on page 24.

## Top Loaders Accessories

### Bottom Heating and Manual Zone Control for Top 130 to Top 190

Do you need especially high temperature uniformity for your work? Then we recommend the optional bottom heating for our large top loaders Top 130 and Top 190.

In combination with the bottom heating, the optional P 310 controller can manually control a second heating zone. As usual, you set the firing profile on the controller. If you determine that the temperature uniformity has to be changed from top to bottom, then you can easily make adjustments of this ratio.



Bottom heating for Top 140 and Top 190 as an additional equipment



## Chamber Kilns, heated from two Sides



N 60 E with base as additional equipment



N 40 E as tabletop device

### N 40 E - N 100 E

Designed as a chamber furnace with a wide-swing door, these models provide all the options needed for hobby applications. The furnaces can be used for ceramics, glass or porcelain painting as well as simple fusing tasks. High-quality combined with attractive design and price are unbeatable arguments for this furnace series.

#### Top quality:

- Tabletop mounting
- Heating from both sides with high-quality heating elements, protected in grooves
- Long-lasting, heavy-gauge heating elements
- Solid state relays provide for low-noise operation
- Fast power switching for precise temperature uniformity
- Thermocouple Type S
- Dual shell door with low outside temperatures
- Door safety switch shuts down power to the elements when the door is opened
- Multi-layered lining with light weight insulation bricks and microporous insulation for a cooler shell and low power consumption
- Infinitely adjustable air inlet opening in the kiln door for improved ventilation and reduced cooling time
- GS safety mark for controlled safety, CE
- Air outlet in the ceiling
- Controls description see page 25

#### Additional equipment

- Base: comfortable charging height of 760 mm

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Connected load kW	Electrical connection*	Weight in kg
		w	d	h		W	D	H <sup>2</sup>			
N 40 E	1300	360	400	320	40	560	740	570	2.9	1-phase	70
N 40 E/R	1300	360	400	320	40	560	740	570	5.5	3-phase <sup>1</sup>	70
N 60 LE	1200	360	400	440	60	560	740	690	2.9	1-phase	90
N 60 E	1300	360	400	440	60	560	740	690	3.6	1-phase	90
N 60 E/R	1300	360	400	440	60	560	740	690	5.5	3-phase <sup>1</sup>	90
N 100 E	1300	460	460	500	100	670	820	760	7,0	3-phase <sup>1</sup>	120

<sup>1</sup>Heating only between two phases

<sup>2</sup>Height, including base, + 650 mm

\*Please see page 25 for more information about supply voltage