

## Top Loaders, round/oval

### 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
- 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.
- Description of the control system see page 25



Top 220

#### Additional equipment

- Bottom heating for very good temperature uniformity for Top 140 and Top 190
- Two-zone control of heating via P 310 controller
- Raised base for Top 45 and Top 60

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Supply power/kW	Electrical connection*	Weight in kg
		w	d	h		W	D	H			
Top 45eco	1300	Ø 410		340	45	580	750	670	2,9	1-phase	60
Top 45	1300	Ø 410		340	45	580	750	670	3,6	1-phase	60
Top 60/Leco	1200	Ø 410		460	60	580	750	800	2,9	1-phase	72
Top 60	1200	Ø 410		460	60	580	750	800	3,6	1-phase	72
Top 60eco	1300	Ø 410		460	60	580	750	800	3,6	1-phase	72
Top 60/R	1300	Ø 410		460	60	580	750	800	5,5	3-phase <sup>1</sup>	72
Top 100 LE	1100	Ø 480		575	100	660	830	910	6,0	1-phase <sup>2</sup>	100
Top 100	1300	Ø 480		575	100	660	830	910	7,0	3-phase	100
Top 140 LE	1100	Ø 550		575	140	750	920	910	6,0	1-phase <sup>2</sup>	120
Top 140	1300	Ø 550		575	140	750	920	910	9,0	3-phase	120
Top 190	1300	Ø 590		690	190	790	960	1020	11,0	3-phase	150
Top 220	1300	930	590	460	220	1170	1000	960	15,0	3-phase	160

<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 60/Leco



Top 100



Top 140



Top 190

## 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 140 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 140 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