



Professional Kiln Series
Front load kilns



DIMENSIONS TABLE

Model	Internal Dimensions			Capacity Litres	°C max	Type
	Width	Length	Height			
MK20	27	30	24	19	1200	L
					1250	M
					1300	H
MK40	35	35	35	43	1200	L
					1250	M
					1300	H
MK85	42	45	45	85	1200	L
					1250	M
					1300	H
MK150	45	55	60	148	1200	L
					1250	M
					1300	H
MK230	48	62	75	223	1200	L
					1250	M
					1300	H
MK320	53	75	82	326	1200	L
					1250	M
					1300	H
MK460	65	80	90	468	1200	L
					1250	M
					1300	H
MK600	65	93	100	604	1200	L
					1250	M
					1300	H
MK720	65	93	120	725	1200	L
					1250	M
					1300	H
MK900	80	95	120	912	1200	L
					1250	M
					1300	H

Bonis front load kilns are high quality professional equipment that fully meets the requirements of the modern studios. Made from high quality raw materials ,produced by the best European companies, for guaranteed performance and long life span. Their multilayer insulation combined with the high insulating capacity of the materials used, ensure high energy saving, and slow cooling rates. The combination of our unique multi layer insulation along with the optimum power of the heating elements, ensure that the kiln will operate at very high temperatures (up to 1300C), at very fast heating rates.

TECHNICAL DESCRIPTION



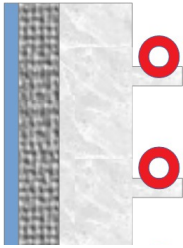
Metallic Frame

The frame is constructed by forged metallic beams and corners. The external cover is made by metallic sheet, painted by a special fire proof colour.



Easy lift

Frame features the appropriate lifting points, so that kilns can be handled by manual lifting equipment.



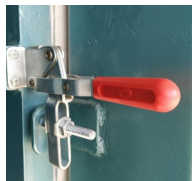
Thermal Insulation

Multilayer insulation with total thickness of 14cm (kiln type MKF20 to MKF85) or 18cm (kiln type MKF150 to MKF900). It consists of special light weighted insulating firebricks (IFB), Grade 25, thickness 7.6cm, classification temperature 1350°C, and a second layer (back up) of Grade 23 IFB, thickness 6.4cm. Multi-layer insulation offers great energy savings.



Arch Ceiling

Models MKF85 to MKF 9000 feature a self-supporting, vaulted, arch ceiling



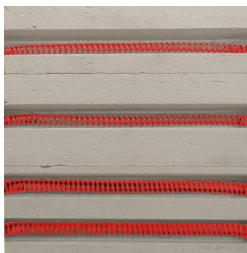
Door Seal

Door sealing firebricks, precisely placed by hand, along with heavy duty door toggle clamps, ensure tight sealing.



Exhaust Air

Kilns feature an exhaust air opening in the center of the roof, which ensures proper ventilation of the kiln.



Heating Elements

Heating elements are made by Kanthal class A1 wire, able to withstand up to 1340°C. They are mounted in specially designed grooves on the insulating firebricks, and are fully protected. In all our kilns, heating elements are properly balanced, and designed in zones, taking so advantage of the natural potential of heat, achieving lower energy consumption, and ensuring absolute temperature uniformity.



Heating Elements Support System

Heating elements in models MKF150 to MKF7900 are supported by special refractory shelves (C.Bonis S.A. Registered Patent).

These shelves are made by light weighted insulating firebricks, which can be easily replaced by the user in case of damage.

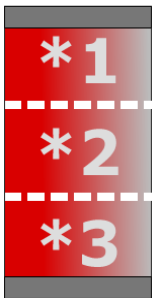
In models MKF20 to MKF85. heating elements are mounted in specially designed grooves on the insulating firebricks, and are fully protected.



Temperature control system

Kilns up to model MKF150, have a temperature control system of one (1) zone. These kilns are equipped with the controller ST 215.

Kilns MKF230 to MKF7900 can have a temperature control system of one (1) zone (type / 1 furnace), or a multi-zone temperature control system (type / 3 furnace).



The multi-zone temperature control system features three thermocouples and the temperature control is carried out in three different zones (upper zone, middle zone, bottom zone).

In kilns of large internal height, our multi-zone temperature control ensures complete temperature uniformity throughout the kiln, regardless of uneven ceramic loading, heating element condition, etc.

Multizone temperature control kilns are equipped with the ST535 controller.

Controller

All kilns are equipped with a sophisticated Controller.

All Controllers are easy and practical to use, and they are equipped with the most advanced features.

The state of the art technology used to manufacture the controllers and high quality performance, guarantees safe firing and precise temperature control.

Controllers are detachable and can be easily detached from the kiln for use in another kiln, or to be stored.



Controller ST215 – 1 control zone

Controller ST 215 offers temperature control in one zone, and it is used in kilns up to model MKF150. It can also be used in applications where it is not necessary to control the furnace in separate zones, and can be used optionally in models MKF230 to MKF730



Controller ST535 – 3 control zones

Controller ST 535 offers temperature control in three zones, and is suggested for models MKF230 to MKF7900

Controller features (ST215 and ST535):

- 32 programs, of 32 steps each.
- Free segment programming
- Segment comprises of 1 heating / cooling ramp followed by a soak period
- Segment is programmed as target temperature and ramp rate (C or F per hour)
- Ramp rate from 1 to 999/hour and Full power
- Programs can be altered while firing
- Program pause while firing (dwell / soak during pause)
- Program advance facilities (Skip Segment)
- Keyboard Lock
- Delayed Start facility (up to 99 hours 59 mins)
- Power failure recovery
- Energy used display (even during running a program, it will display the energy used up to this point)
- Set point display
- C / F operation



Temperature Sensors (Thermocouple)

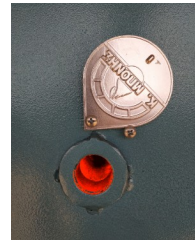
L-type kilns feature K type, Nickel-Chromium thermocouples, suitable for temperatures up to 1260°C.

H-type kilns feature S type, 10% Rhodium Platinum, 0.25mm thermocouples, suitable for temperatures up to 1600°C.



Door Safety

Kiln feature a door safety switch, which will cut off the power supply to the kilns elements in case someone opens the door while the kiln is in operation.



Observation Holes

Kilns feature observation holes on the front side. Depending the model, kiln may feature one, two or three observation holes



Kiln Furniture

Kilns are provided with the necessary fireplates and props. Quantities for each material are decided based on your personal needs, and products, since each workshop has different needs.



Instruction Manuals

Kilns are accompanied by a controller operation guide, a kiln technical manual and a firing program guide.

All brochures are in English language, with detailed instructions and photos.

Spare parts



All kilns are manufactured by our company in Greece. We have a complete stock of raw materials and spare parts, which are shipped directly anywhere in the world.



Technical assistance

Our company has an organized and fully equipped Service department. Our experienced and specialized technical staff provide responsible and immediate technical support. Support is available 7 days a week.



Advisory support

Our many years of experience and our direct, daily contact with end-users enable us to provide reliable and immediate consulting on kilns operation as well as on firing, and material issues. Counseling is available 7 days a week.



Warranty

All kilns have an extended 3 year warranty.



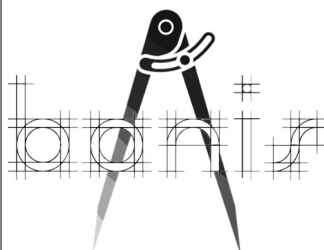
Certifications

Our kilns are manufactured according to European Union standards, and have a CE manufacturer's certificate of conformity. All raw materials used come from European companies, they meet all EU specifications and have the necessary certifications.



Delivery time

All standard type kilns are delivered within 30 business days from the date of your order



Custom Kilns

We are able to offer suggestions and solutions for kilns that will perfectly meet your personal needs (space constraints & features, production capacity, special applications etc.). The specialized technical staff of the company will design and build the perfect kiln for you. Inventiveness and continuous research have brought to our company 5 registered patents.



Made in Greece

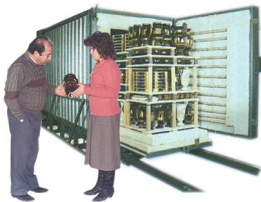
Our company is the only Greek company that designs and produces kilns for firing Ceramics.



'Bonis S.A.' 50 years of creativity and innovation

Bonis high temperature kilns are found in the majority of pottery workshops in Greece and Cyprus, as well as in many workshops in Europe and Saudi Arabia.

The quality of the kilns and services offered, the prompt service, and the special emphasis we give on customers' satisfaction have always placed our company at the forefront of the market.



The company is a medium size family business, which was founded 50 years ago by Costas Bonis, and has been offering its products and services to thousands of pottery workshops in more than 10 countries since then.

The experience gained by the company through 50 years of kiln manufacturing and direct communication with end-users, form the basis for producing high-quality, easy-to-use, efficient and energy-saving kilns.



In addition, our expertise and know-how, as well as our continuous research and development, have given our company 5 registered patents.

An important part for us is the further development and recognition of the ceramic art. That is why we support and actively participate in as many ceramic-related activities as possible. A special honor for our company is the award we received from the Greek Association of Ceramics in recognition of our company's catalytic contribution to the modernization of pottery in Greece.

Contact Us

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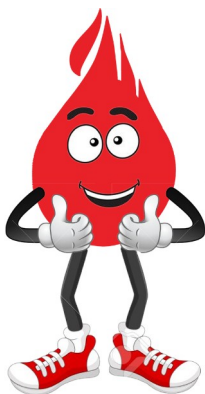
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