



Professional Kiln Series
Top load kilns for Ceramics



SPECIFICATIONS

Model	Internal Dimensions (cm)		Capacity (Litres)	°C max	Type
	Φ	Height			
MK20	35	23	22	1200	L
				1250	M
				1300	H
MK45	40	34	43	1200	L
				1250	M
				1300	H
MK60	40	46	58	1200	L
				1250	M
				1300	H
MK80	47	46	80	1200	L
				1250	M
				1300	H
MK100	52	46	98	1200	L
				1250	M
				1300	H
MK120	58	46	122	1200	L
				1250	M
				1300	H
MK155	58	58	153	1200	L
				1250	M
				1300	H
MK150	52	69	147	1200	L
				1250	M
				1300	H
MK185	58	69	182	1200	L
				1250	M
				1300	H
MK230	65	69	229	1200	L
				1250	M
				1300	H
MK320	76	69	314	1200	L
				1250	M
				1300	H

BONIS round top load kilns for firing ceramics are high quality professional equipment that fully meets the requirements of the modern laboratory.

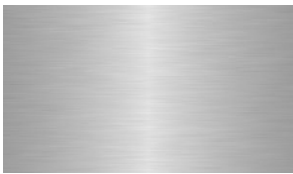
Made from high quality raw materials ,produced by the best European companies, for guaranteed performance and long life span.

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 together with the appropriate power of the heating elements, ensure that the furnace will operate at very high temperatures (up to 1300C), at very fast heating rates.

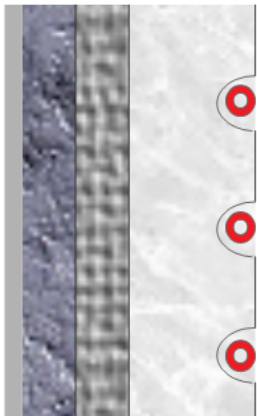
TECHNICAL CHARACTERISTICS

Frame



The frame of the kiln is made by stainless steel.
 All kilns come with a steel frame base which can optionally carry wheels

Thermal insulation



Multilayer insulation with total thickness of 13cm.
 Our multi-layer insulation offers great energy savings, and slow cooling rate. It consists of special light weighted insulating firebricks (IFB), Grade 25, thickness 7.6cm, classification temperature 1350°C, and two layers of Superwool blanket, density 128kg / m3 with total thickness 5cm.
 Superwool blanket is a low bio-persistence blanket manufactured from Alkaline Earth Silicate (AES) composition fibres, uniquely engineered to offer advantages in high temperature insulation applications.
 Key benefits include: low bio-persistence, low thermal conductivity, minimal linear shrinkage.
 Superwool blanket are not classified as hazardous, and meet all environmental and health and safety obligations

Heating Elements



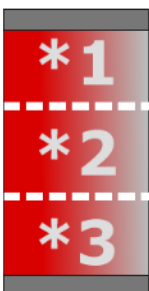
The heating elements are made by Kanthal class A1 wire, able to withstand up to 1340°C.
 They are mounted in specially designed grooves on the insulating firebricks, and are fully protected.
 In all our kilns, heating elements are designed in three zones. The lower heating elements are very strong, and their power is gradually reduced towards the upper zones.
 In this way we take advantage of the natural potential of heat, achieve lower energy consumption, and ensure absolute temperature uniformity throughout the furnace.



Temperature control system

Kilns up to a height of 58 cm , have a temperature control system of one (1) zone. These kilns are equipped with the controller ST 215.

Kilns with a height of 70cm can have a temperature control system of one (1) zone, or a multi-zone temperature control system.

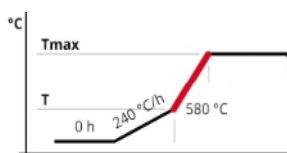


The multi-zone temperature control system features three thermocouples and the temperature control is carried out in three different zones (upper zone, middle zone, bottom zone).

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 58cm height. 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 furnaces with height of 70cm.



Controller ST535 – 2 or 3 control zones

Controller ST 535 offers temperature control in three zones, and is suggested for kilns of 70cm height.



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
- Set point display
- C / F operation



Optional WiFi module:

Both controllers can have the capability to be accessed and controlled remotely from your mobile, laptop or tablet.

Using 'MyKiln' portal site you can view and control your kiln in real time. You can Stop a firing or adjust programs, from anywhere in the world.

WiFi enabled controllers feature also a USB port that allows you to directly control it from a PC and it also allows us to apply updates and run diagnostics from distance



Temperature Sensors (Thermocouple)

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

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



Electric Panel

The electric panel is constructed from stainless steel. It is equipped with all the necessary indication lights, switches and the conductors needed to connect the kiln to the main power supply.



Lid support

All kilns feature a three position lid support.

Lateral support provides great security, while less stress is transferred on the kilns frame.

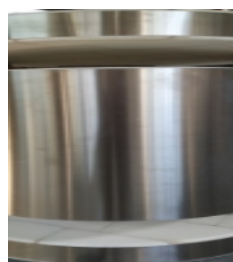
The third mounting position allows the furnace to open for only a few centimeters, and it is used for rapid cooling of the furnace.



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.



Disassembly

All kilns are easily dismantled without the need to use any specialized tools. Kilns are made in such a way that the disassembly of the electrical or electronic components is not required.

This makes it very easy to transport the kiln, and to place it in areas with limited accesibility (the minimum door opening required is 45cm)



Extension Ring

Kilns of internal height 46cm and 58cm can be expanded by adding a new ring. Thus a 120 liter furnace with an initial height of 46cm can be expanded to 155 liters (12cm ring - 58cm total new height) or 185 liters (24cm ring - 70cm total new height).



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.

Optional equipment

Optionally kilns can feature:

- Heating elements on the floor
- Handle with lock on the lid
- Ventilation system
- Wheels on the metallic support
- Control over WiFi



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.



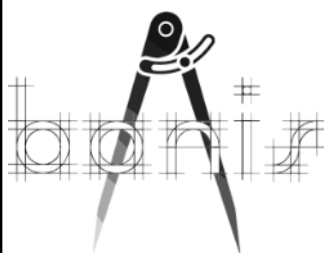
Certifications

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 2 weeks 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.

Since 1971

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.



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