



**Armin Flieher** Managing director and owner of KITTEC GmbH and KITTEC a.s.

# **WELCOME TO KITTEC**

individual model series. CLASSIC-LINE.

With our PROFESSIONAL-LINE we keep on offering you stainless-steel top and front-loaders in known premium KITTEC quality.

We are looking forward to the next chapter of KITTEC's story and will continue to concentrate on our high quality, reliability and service demands for you.





#### The right kiln for any application!

Since the publication of our last catalogue, incredibly, 5 years have passed. It's hard to believe because the time has flown by so quickly, and also because we can now look back on more than 40 years of experience in kiln construction.

A great deal has happened over the last few years, and many developments have taken place within the company.

Particularly in the industrial area, we supplied many interesting customised products for a wide range of applications in many different industries and application areas. This is the main reason why the industrial and laboratory area with the INDUSTRIAL-LINE product range stands out more than it did in the previous catalogue, since we have made major progress in terms of expertise and quality over the last few years in this area.

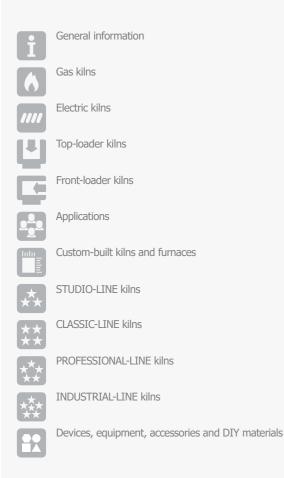
We don't need to hide in the pottery area either as far as new products and developments are concerned. In addition to the new ECO and CT model series, you will find numerous new standard models, variants and options within the

We have also adapted and re-categorised our product range in accordance with the developments which have taken place over the last few years: our ECO and CBN entry-level models can now be found in the STUDIO-LINE product range, and our "classics" such as the CB, SQ and CL model series can be found in the

# *W***KITTEC**<sup>®</sup>

# KEY

#### Symbol explanations



#### **Pictures and diagrams**

The following applies to all pictures and diagrams in the catalogue: The depicted products may differ from the actual product that is sold. Subject to changes.

#### **Footnotes and tables**

The designation used in the tables are shown in abbreviated form for easier reading and in order to provide a better overview. Subject to changes. Please visit our web site at www.kittec.eu to view the most up-to-date information

Kilowatts [kW]: Output of the kiln model Volts [V]: Voltage of the specified kiln model Amperes [A]: Amperage of the specified kiln model

All measurements are specified in millimetres [mm] All volume specifications are given in litres [I]

STUDIO-LINE ECO electric top-loader STUDIO-LINE CBN electric front-loader CLASSIC-LINE CB electric top-loader CLASSIC-LINE SQ electric top-loader CLASSIC-LINE CB electric front-loader CLASSIC-LINE CL electric front-loader CLASSIC-LINE CT electric front-loader CLASSIC-LINE CBG gas top-loader CLASSIC-LINE Raku kilns CBR CLASSIC-LINE Raku ring kiln CBRB
PROFESSIONAL-LINE XR electric front-loader PROFESSIONAL-LINE XT electric front-loader PROFESSIONAL-LINE XG gas front-loader INDUSTRIAL-LINE CTH bogie hearth furnaces INDUSTRIAL-LINE XRS/XTS front-loader INDUSTRIAL-LINE CLL laboratory kilns



KITTEC INFORMATION



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# KITTEC STUDIO-LINE





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DEVICES EQUIPMENT KILN ACCESSORIES DIY MATERIALS

# **WKITTEC**®

# **OUR SUCCESS STORY**

#### It all started with a milestone

Our tradition lies in one of Europe's first top-loaders: When our predecessor company "Kittel" presented the CB 60 ceramic top-loader in 1979, there was hardly anything comparable in European kiln construction. Innovation and consistent further development have been characteristic of KITTEC from day one. The technology and equipment of our products were and still are designed for years of reliable use in workshops and industrial applications.

With more than 40 years under its belt, KITTEC is one of the most experienced kiln manufacturers. We have used these many years of experience to continuously optimise our kilns, and have repeatedly set standards in kiln construction. We use top quality materials and components from renowned manufacturers for our kilns. Assembly in our modern production facility is carried out with extreme precision by our experts. Our kilns leave the factory designed, assembled and tested with the utmost care, which is confirmed by the tester in the final inspection area by putting his name on the seal of approval.

And even after four decades, the drive for perfection still motivates us to develop new products and optimise well-tried designs.



1979	Introduction of the CB 60. Our first compact kiln was a milestone in kiln construction. The advanta- geous design of the top-loader with heat transfer to the ware from all sides leads to excellent firing results.	2004	KITTE introd fusing
1986	The CB series from KITTEC becomes the new "reference" in kiln construction with the introduction of innovative multi-layer premium insulation.	2006	The no fully ir fair.
1994	Introduction of the door kiln series K 180 T to K 450 T.	2009	KITTE from i the C
1995	The CB 125 is the first GS-tested kiln with the "clever" swinging lid mechanism.	2014	In ord of our compl backs
2001	The kilns of the new KITTEC X-LINE top-loader set new standards. Every model, from the X 40 to the X 210, has the same ergonomic working height and a guard bracket in the loading edge area. The well-tried "clever" lid opening is now supported by the X handle – the lid can be easily opened and closed by hand. All parts of the frame are	2016	KITTE
	made from stainless steel. Its pendulum mount- ing ensures that the lid always shuts tight – an innovation.	2017	CLASS Ceram
2002	The new XR and XT front-loaders of the KITTEC X-LINE are the next highlight of the new KITTEC era. The entire construction is made from		The no
	stainless steel. The base is height-adjustable. Our ceiling plate solution is also innovative.	2019	40 yea moves celebr
2003	The company introduces its own installation and delivery service – specially for our front-loaders.		

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EC celebrates its 25th anniversary, and duces the STUDIO-LINE CB front-loader and g top-loader.

new CLASSIC-LINE front-loaders are successintroduced at the Ceramitec specialist trade

EC presents the first bogie hearth furnace its own production at Ceramitec 2009 with CTH model series

rder to also fulfil the future requirements ur customers, the KITTEC X-LINE kilns were pletely revised. The "KITTEC New Edition" s up our claim of being able to offer our omers the best, unbeatable kiln quality.

EC presents itself with a new design, a new ogue and a web site.

EC presents the new STUDIO-LINE ECO and SSIC-LINE CT 3 and CT 5 model series at the mitec.

new "Double" model variant with double insun for the 230 V models is introduced.

ears of KITTEC! On its big birthday, KITTEC es into new offices in Taxisstraße 49, and prates a decade-long success story.

# **WKITTEC**®

# **OUR TEAM**

#### We provide you with a comprehensive range of services, and would be pleased to deal with your concern in person!

Our qualified team will support you at all times in the implementation of your requirements and will also accompany you during the planning of your project. Just contact us - our employees would be pleased to assist you!



**Adelheid Wolff** Customer support Western Europe ... Contact for all dealers and customers in Europe outside of Germany at KITTEC since 2012. Adelheid Wolff speaks German, English, French

and Italian. Tel.: +49-8031-892462

E-mail: wolff@kittec.de



**Christian Ott** Customer support Germany ... Responsible for our order processing in Germany

since the beginning of 2020. He also reinforces our team in many other administrative tasks. He speaks German and English.

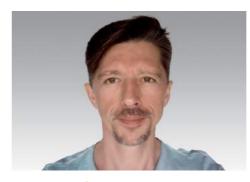
Tel.: +49-8031-892462 E-mail: ott@kittec.de



#### Jiří Švécar Sales manager for Central and Eastern Europe

... Sales manager at KITTEC since 2013, looking after business partners and customers in Central and Eastern Europe. Jiří Švécar speaks Czech and English

Tel.: +420-582-360601 Mobile: +420-774483024 E-mail: sale@kittec.cz



**Torsten Kugler** Commissioning and service ... KITTEC employee since 2020 as a service engineer, and is responsible for kiln service, deliveries

German and English.

and our installation service. Torsten Kugler speaks



Markéta Smékalová Shipping and export

... Responsible for shipping and logistics, the production of export documents and numerous other administrative tasks at KITTEC since 2011. She speaks Czech and German.



Felix Ritzinger Product management

... Employee in the technical product management area at KITTEC since 2019. He is the technical adviser for our customer support, and is in constant touch with construction, production and quality assurance.



Michaela Wiederer Administration

... Responsible for our order processing in Germany since 2016. She also reinforces our team in many other administrative tasks. She speaks German, English and Italian.



**Alexander Fischer** International Marketing

... Responsible for international marketing and European sales partner management with his company Sales Readiness Consulting since 2015. He speaks German, English, French and Spanish.



**Armin Flieher** Managing director

... Sole partner, chairman and managing director of KITTEC a.s. and KITTEC GmbH since 2002. He has 30 years of professional experience in ceramic kilns. Armin Flieher speaks German and English.



Alena Bubeník Háderová Deputy manager of KITTEC a.s.

... Deputy manager at KITTEC a.s. since 2011. She ... Deputy manager at KITTEC a.s. since 2020. In is responsible for all processes there, and manages this position, he is responsible for all processes the company in collaboration with the KITTEC board within the company. Mark Flieher speaks German, of directors. Alena Bubeník Háderová speaks Czech Czech and English. and German.

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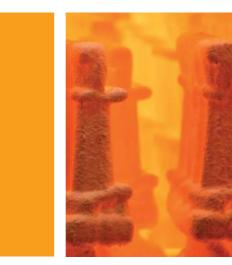
#### Alena Havlenová Production management

... Member of the KITTEC team since 2011 and is responsible for the entire company-internal logistics and production processes as the production manager. Alena Havlenová speaks Czech and German.



#### **Mark Flieher** Deputy manager of KITTEC a.s.





















# **POTTERY, CERAMICS, CLAY AND GLASS**

The firing and finishing of the surface not only make the pot durable, but also give it fascination, value and meaning. Be it ceramic, glass or porcelain – you can fire successfully right from the start with reliable firing procedures.



#### **Bisque firing**

Bisque firing, which is also known as biscuit firing, is the initial firing of ceramic products, i.e. the firing of the dried, unglazed biscuit.

During bisque or biscuit firing, the arrangement of the items that are being fired is not critical, they may touch each other and be stacked on top of each other, or the kiln can also be filled in levels using shelf props and fireclay plates.

#### **Glaze firing**

Since glazes react very sensitively to temperature differences, uniform temperature distribution in the kiln is vital for the subsequent appearance of the items. In order to do this, the items are distributed as evenly as possible in the kiln, with items which are approximately the same size on each level. The bases of the items must not be glazed, or must be separated from the contact surface with stilts.



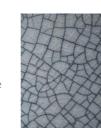






#### Raku – popular firing technique from the Far East

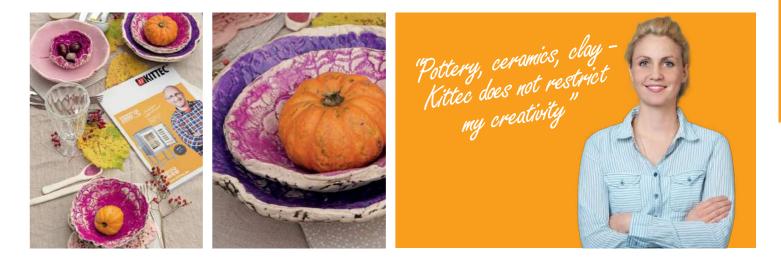
Each item is unique, unmistakeable and non-reproducible. During Raku firing, the ware is bisque fired and usually glazed before the glowing item, which has been heated between 750 °C and 1,050 °C, is removed from the hot kiln using Raku tongs and placed in a hermetically sealed container with sawdust, leaves or grass. Immersion in water ultimately alters the glaze again. Anyone can develop their own techniques for giving their ceramics the personal individual touch. Raku is therefore a different experience every time.





#### Glass fusing

Do you want to create artistic glass objects? With our high-quality glass fusing kiln, you can melt fusing glass into individual, colourful works of art. The KITTEC glass fusing kilns have an extraordinary price/performance ratio, since they are produced in small batches. Among other things, they have a protected thermocouple for temperature detection, a user-friendly controller with overtemperature protection, a gas pressure spring support for easier opening of the lid, which contains heating elements on support bars, and a bypass exhaust air connection.



## Frequently used KITTEC model series in the pottery, ceramics, clay and glass areas:



#### **CB model series** Our extremely popular "best seller" from the

KITTEC CLASSIC-LINE can be found on page 32.

The gas-heated KITTEC CLASSIC-LINE top-loader from the CBG model series can be found on page 44.

#### **CL/CT model series**



Information about the CLASSIC-LINE CL and CT front-loaders with heating elements in grooved bricks or on support bars and optional 3 or 5-sided heating can be found on page 40 or 42.





The consistent further development of the classic KITTEC top-loader for the highest demands in professional continuous use is model series X from the KITTEC PROFESSIONAL-LINE. All of the relevant information about this can be found on page 52. The PROFESSIONAL-LINE XR and XT front-loaders can be found on pages 54 and 56.

## **CBF/SQF** model series

The CBF and SQF model series with a round or square body, heating elements in the lid and a maximum temperature of 1,000 °C have been specially designed for glass fusing. Find out more on page 38.



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#### **CBN model series**

page 34.

Novices, schools and also experienced hobby pottery enthusiasts and professional ceramicists will enjoy the excellent price/performance ratio of the KITTEC STUDIO LINE. You will find more information about the STUDIO-LINE CBN frontloader on page 26, and the STUDIO-LINE ECO top-loader can be found on page 24.

Model series SQ "Squadro"

The SQ is the world's first square kiln without a

the "square brother" of the CB can be found on

heavy, bulky steel frame. More information about





#### **CBR** model series

The KITTEC Raku kilns are easy to transport, robust and durable, i.e. perfect for outdoor Raku firing. The top and front-loaders in the CBR-T and CBR-F model series can be found on page 44, the innovative modular CBRB Raku ring kiln on page 48, and DIY materials and Raku accessories on page 90.

## **Option: Lid heating**

Do you want a fully-fledged ceramic kiln with which you can also fuse glass, for example? If so, we recommend equipping one of our top-loaders with additional lid heating which can be variably controlled in accordance with requirements. The optional lid heating is available for top-loaders in the CB, SQ, ECO and X model series.

# LABORATORY, DEVELOPMENT, DENTAL

#### Laboratory furnaces from KITTEC – for heat treatment with extreme precision

High temperature uniformity and maximum precision characterise our furnaces for the laboratory and dental area. We have developed these furnaces in collaboration with laboratories, and thoroughly tested them in everyday continuous operation in workshops and laboratories. Extremely short heat-up times are another characteristic of our KITTEC laboratory and muffle kilns.





#### **Development and sample construction**

Kilns can be found in the laboratories of the majority of manufacturing companies. They are used at regular intervals in the product development of composite materials, in sample construction and in technical testing procedures for products made from metal, plastic or ceramics. Regardless of whether you are tempering glass, debinding and sintering ceramics or annealing or hardening metals: One-off productions in specially manufactured kilns are always required to begin with.



#### Dental technology

Particularly metals and ceramics are often used in the dental medicine and dental technology area. The manufacture of special alloys made from powdered metal or the sintering of oxide ceramics such as zircon oxide make very special demands of the kilns that are required in the laboratory area. For this reason, fast but exact heating and cooling rates are very important for dental laboratories and milling centers. Our kilns are suitable for stress relief annealing, cleaning and sintering.



#### Science and research

Temperature plays an important part in material research in the manufacture and processing of materials and for their subsequent characteristics during use. The chemical and physical characteristics of plastics, metals and ceramics can be influenced in a targeted way by means of thermal treatment. Kilns also have a major part to play in analysis, such as in thermogravimetry: The constituents of samples can be determined via the change in mass when they are heated. Prerequisite: Precise control of the temperature.





## Soil science and geomorphology

Particularly muffle kilns are frequently used in the area of geomorphology and soil science analysis. One particular application in this area is the determination of the organic proportion in the soil, by determining its mass by measuring the loss on ignition in the muffle kiln.

This is a widespread and comparatively uncomplicated method of determining the humus content of a soil sample.



#### **CLU model series**



The circulating-air chamber kilns in the CLU model series from the KITTEC INDUSTRIAL-LINE are particularly suitable for heat treatment at up to 850 °C. More information can be found on page 72.



M model series

Developed in cooperation with a dental laboratory, the M model series has been designed for daily continuous workshop operation, and is characterised by extremely short heat-up times. More information about the small muffle kilns from the KITTEC INDUSTRIAL-LINE can be found on page 71.

## XR/XT model series

High guality processing with all-stainless steel housing and frame and optimum temperature distribution thanks to 5-sided heating characterise the front-loaders in the XR (with heating elements in grooved bricks) and XT (with heating elements on support bars) model series. More information can be found on pages 54 (XR) and 56 (XT).







"Heat treatment with maximum precision is important to me.!"





#### **CLL model series**

Heating coils on support bars for free radiation, 3-layer insulation build-up for low energy consumption and 5-sided heating for optimum temperature distribution, also in the upper temperature range (up to 1,400 °C), are just three of the characteristics of the CLL laboratory kilns from the KITTEC INDUSTRIAL-LINE. You will find more on page 66.

#### **KTQ model series**

The atmospheric sintering kilns in the KITTEC INDUSTRIAL-LINE KTQ model series with chamber volumes of 5 I to 120 I have been developed for demanding thermal processes up to 1,800 °C. They combine well-tried technology with innovative components. More information can be found on page 74.

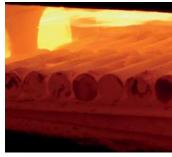


#### **CBN model series**

The "small" CBN models CBN 15 and CBN 33 with their small space requirement and the excellent price/performance ratio of the KITTEC STUDIO-LINE are particularly popular in laboratories. You can find out more about the STUDIO-LINE CBN front-loaders on page 28.

# INDUSTRY, HEAT TREATMENT, LOST WAX MELTING, PROTOTYPING

Over the past 40 years, we have supplied many industrial customers with the right solution for a wide variety of applications with our KITTEC kilns. This experience is now reflected in our model series, which we have specially designed for industry. Be it for heat treatment of metal or glass, lost wax melting for prototyping or precision casting, stress relief and solution annealing or for hardening and tempering, normal or protective gas atmosphere operation, with electric or gas heating: KITTEC now provides a wide range of industrial kilns.



#### Stress relief annealing

Particularly in metal workpieces, stress can occur in the material due to uneven cooling during thermal processing procedures, but also in the case of heavy mechanical processing. In order to prevent unwanted deformation during further processing, this stress must be reduced by using stress relief heat treatment, for example.

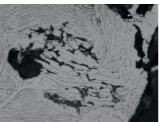
In order to do this, the workpiece must be brought to a suitable annealing temperature (usually less than 650 °C with steel) and held at this temperature for a long period. By means of subsequent slow and even cooling, it is ensured that no new stress builds up which could deform or damage the workpiece.





#### Solution annealing

During solution annealing, the workpiece is brought to a specific temperature at which its mechanical strength is retained, while the crystal structure can alter (at about 1,020 to 1,080 °C with steels). This temperature is maintained long enough for the unwanted ferritic crystals to break down and transform into austenitic crystals.



#### Soft annealing

During soft annealing you obtain the material temperature for the soft deformation that is required when forging steel, for example. In the industrial area, this pressure deformation takes place in so-called drop forges.



#### Hardening, tempering and annealing

During so-called transformation hardening, the most important hardening procedure, the workpiece is heated until its microstructure transforms from ferrite to austenite. Significantly more carbon can be dissolved in the austenite than the ferrite.

If the workpiece is held at the correct temperature (usually > 723 °C) for long enough, the existing or additionally introduced carbon solubilises in the austenite. If the workpiece is now quickly cooled to a low temperature, the carbon can no longer diffuse from the crystal lattice of the austenite. The workpiece, which is very hard and brittle ("glass hard") after hardening, is then softened again in a second step known as tempering, and set to the required usage hardness by means of targeted selection of the correct tempering temperature.



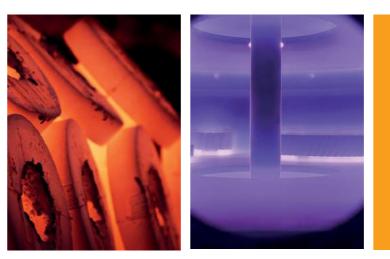
#### **Cleaning particle filters**

Diesel particle filters in vehicles can become blocked by excessive soot, particularly when mainly short distances are being driven. However, replacement particle filters are very expensive. An equivalent but cheaper solution is thermo-mechanical cleaning of the filters, which is known as "burning out" or "regeneration". In order to do, the filters are slowly heated to about 600 °C in the kiln. When this takes place, the soot combusts almost completely, and the remaining ash can be removed by blowing it out, for example. Catalytic converters blocked with soot can also be cleaned in a similar way.









#### Kilns that are as versatile as your requirements

Be it as an all-rounder for very different and constantly changing uses or a specialist for strictly defined requirements, the kilns in the KITTEC PROFESSIONAL-LINE and KITTEC INDUSTRIAL-LINE have one thing in common: The uncompromising claim of being a partner to professional users who is equally professional. You too will find the right kiln for you needs among the KITTEC PROFESSIONAL-LINE and KITTEC INDUSTRIAL-LINE model series!

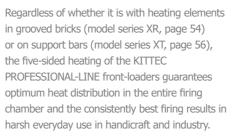
#### Frequently used KITTEC model series for various industrial applications:

#### **CTH model series**



The KITTEC bogie hearth furnaces from the INDUSTRIAL-LINE CTH model series, which we manufacture with firing chamber sizes of between 500 and over 8000 litres as standard, provide the quickest changeover times (due to the loading process being outside the firing chamber) and much more. More information about the "big ones" for real industrial requirements can be found on page 62.

## XR/XT model series



#### XA model series

The kilns in the KITTEC INDUSTRIAL-LINE XA model series have been designed for lost wax melting. Be it for precision casting in the automotive industry, jewellery, art or dental technology, the KITTEC XA melting kilns are suitable for many mould materials such as quartz-sand mixtures, clays, zirconium or olivine sand. See page 76.









The circulating-air chamber kilns in the CLU model series from the KITTEC INDUSTRIAL-LINE are particularly suitable for stress relief annealing, tempering, precipitation or keeping warm at up to 850 °C. More information can be found on page 72.



#### **CLM model series**

The annealing and hardening kilns of the CLM model series have been specially developed for annealing and hardening in normal or protective gas atmosphere operation. More information about these kilns from the KITTEC INDUSTRIAL-LINE can be found on page 64.



## X model series

The top-loaders in model series X of the KITTEC PROFESSIONAL-LINE are the preferred choice for thermo-mechanical cleaning of particle filters as "regeneration kilns" (see p. 52). However, the KITTEC CLASSIC-LINE model series CB (see p. 32) is also suitable for this application with the optional hearth air inlet slide valve.



# **NewGen ESP** Fast to perfect temperatures

Faster to perfect firing results

# Our kilns now feature innovative foam ceramic bricks in the KITTEC NewGen ESP energy-saving package.

With our KITTEC NewGen ESP energy-saving package, we use a completely new type of refractory lining with innovative foam ceramic bricks in addition to the usual high-quality multi-layer premium insulation and an insulating plate installed underneath the bottom. Our KITTEC NewGen ESP energy-saving package is available for all new KITTEC kilns – contact us!



- Faster heating and cooling phases
  Shortened cycle times
  Lower energy consumption
  Reduced wear of the heating elements
  - Lower kiln weight
  - Free of ceramic fibers (no health hazard)
  - Sustainable production
  - V Quick return on investment

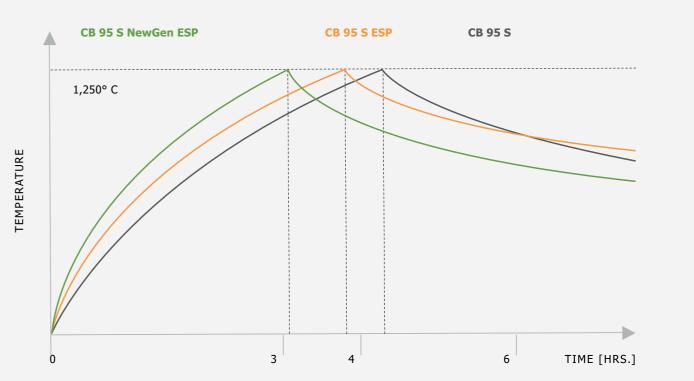
More information about the KITTEC NewGen ESP energy-saving package can be found directly at www.kittec.eu - simply scan in the QR code!



# A revolution in kiln construction

The foam ceramic bricks store significantly less heat than a conventional lining, while still providing a comparable insulating effect.

The significant benefit: You heat the kiln - and not just the bricks. Firing not only becomes much faster. It also requires less energy. For your company, this means shortened firing cycles thanks to reduced heating and cooling times, as well as lower electricity costs.



Our test shows:

A **CB 95 S NewGen ESP** reached 1,250 °C in about 3 hours, compared to 3.75 hours for the **CB 95 S ESP** and 4.25 hours for the standard **CB 95 S**, resulting in significant electricity savings.

#### **Extremely sustainable**

Our bricks are 100 % recyclable and can be reused as raw material to produce new foam ceramic bricks, again and again. Thanks to local production in Central Europe, transport distances are significantly shorter.

# Highlights\*

\* All information refers to our test with the KITTEC kiln model CB 95 S





Heating phase shortened by around 30 percent

8 hrs.

Cycle time reduced by more than 8 hours

**37** kg

Kiln weight reduced by 37 kg (61 kg instead of 98)

# 30%

Around 30 percent less electricity consumption

# **CUSTOMISED PRODUCTS**



Special tasks also require special kilns! – KITTEC fulfils these tasks with professional customised products if necessary. If our standard product range does not yet cover your requirements, we would be pleased to take on the challenge of developing a suitable kiln for your application.



#### Tell us your requirements!

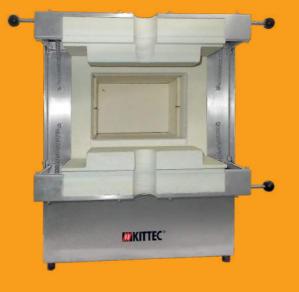
Apart from our standard range of products, we can also put together made-to-measure customised kilns. We can successfully implement a wide range of special constructions for a wide variety of applications. Working out customised products and kilns for you in accordance with your specifications is a welcome challenge for our technical team.







Customised product for use in laboratories





glass processing industry.



Special height for lost wax melting of

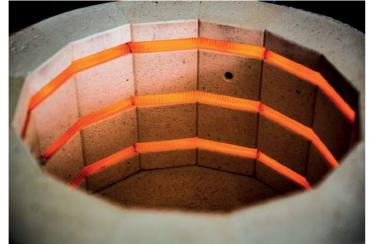
Customised product for the metal processing industry. relief annealing of steel plates



## 

12 kW output with usable capacity of 6 l reaches













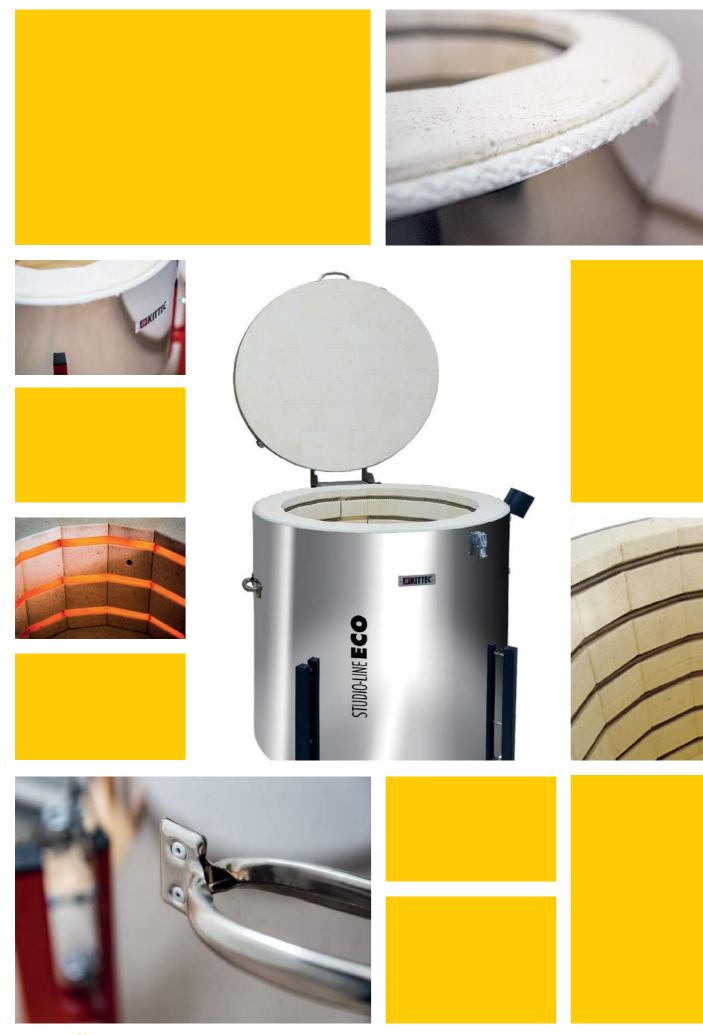




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# *W***KITTEC**<sup>®</sup>



# **KITTEC STUDIO-LINE**

Simple firing for a wide range of uses and real KITTEC quality at a particularly low price: The kilns in the STUDIO-LINE are our ideal starter models!

By concentrating on the essential, the KITTEC STUDIO-LINE is also suitable for small financial budgets, but still has the usual outstanding processing quality.

In addition to the excellent price/performance ratio, the well thought-out design and ease of operation of the kilns make the STUDIO-LINE extremely attractive for novices.

Our kilns are designed for use at regular intervals within the variants for our customers in countries or regions with a differspecified temperature range. They leave our factory designed, ent power grid is not a problem. assembled and tested with the utmost care, which is confirmed We also have a solution for customers to whom commercial by the tester in the final inspection area by putting his name electricity is only available at off-peak times but would like to on the seal of approval. A special quality characteristic of all program their controller during the day with an external power KITTEC kilns: Each individual heating element is individually supply. adapted. This means that we have uniform heat distribution Our kilns are available from specialist dealers, who are throughout the kiln. We give a warranty of up to three years on our kilns, with the usual exception of the heating elements. at your side with advice and practical help for anything We only use non-carcinogenic insulating materials for our kilns to do with firing. in accordance with TRGS 905, class 1 or 2. We would be pleased to tell you where our nearest Adapting the electrical systems of our kilns to any voltage sales partner is located.



 Lid lock with lockable eyelet



 Platinum rhodium thermocouple for temperature detection – wear-free and installed protected against breakage



 Optional: castors (two of the four with a locking brake)

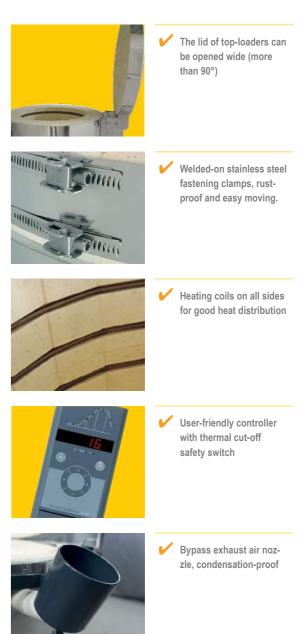


Available by request in anthracite, green, yellow, silver and red.



Kanthal heating elements with low surface load, secured to prevent slipping





## STUDIO-LINE ECO electric top-loader, up to 1,320 °C

The top-loaders in the ECO model series mainly have their one-piece body to thank for their excellent price/performance ratio, since it uses less material. With the ECO model series the essential features of a modern top-loader with KITTEC quality become affordable also to novices.



- 1 Heating elements on all sides for good heat distribution Two-layer insulation: ⁄ Lightweight refractory brick + high-quality, ceramic fiber-free insulation Powder-coated base - in your choice of one of five colours Stainless steel fastening clamps, welded on - rust-proof and easy moving Continuous mortar-free brick lining reduces cracking Lid joined without mortar Exhaust cowl at right-hand side, protected from condensation Lid lock (with lockable eyelet) Reversible base for two possible working heights Gas pressure spring support for easy lid opening
- Lid can be opened wide (> 90°)
- Useful handles for secure and quick transport
- Customised products by request

#### **STUDIO-LINE ECO model series**

Model	Basic design	Volume [l]	Firing chamber diameter [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Overall height with reversed base [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
ECO 70 S	round	68	430	460	690	770	780	1010	5.6	400 2N~	2x12 CEE16	1320	60
ECO 80 S	round	79	510	380	770	850	700	1010	5.6	400 2N~	2x12 CEE16	1320	65
ECO 95 S	round	95	510	460	770	850	780	1090	7	400 3N~	3x10 CEE16	1320	80
ECO 105 S	round	101	510	490	770	850	810	1120	7.6	400 3N~	3x12 CEE16	1320	90
ECO 150 S	round	149	510	720	770	850	1040	-	10.8	400 3N~	3x16 CEE16	1320	115
ECO 125 S	round	127	590	460	850	930	800	1030	8.2	400 3N~	3x12 CEE16	1320	105
ECO 185 S	round	190	590	690	850	930	1010	-	11	400 3N~	3x16 CEE16	1320	135
ECO 205 S	round	203	690	535	950	1030	850	-	12	400 3N~	3x18 CEE32	1320	145

More information about the KITTEC STUDIO-LINE ECO top-loader and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!





#### **Optionally available:**

#### Lid heating



Additional lid heating turns your kiln into a combination kiln which is suitable for conventional firing procedures and also other applications such as glass fusing. The switch of this lid heating is not just a selector switch for "Lid heating on/off" or "Side heating on/off" but a continuously adjustable switch with which you can set the ratio of lid heating to side heating yourself. It couldn't be easier when it comes to alternate firing of both ceramics and glass, for example!



#### Hearth heating

The additional heating in the base is protected in grooves and integrated in the kiln heating circuit.

## ESP Energy Saving Package

With our ESP Energy Saving Package, we use a high-quality and innovative multi-layer premium insulation in the side and the base instead of common rear insulation for extremely low energy consumption.

Thanks to this additional insulation, the heat is retained in the kiln in a much better way. On the one hand, this saves power, and on the other hand the heating elements wear more slowly.

## Hearth air inlet slide valve (without drip tray)



The hearth air inlet slide valve with the supply air opening in the base of the kiln makes it possible to optimise the firing procedure for special materials.

Experts and firing professionals appreciate this professional supply air setting. The hearth air inlet slide valve can also be used during the cooling phase for speeding up the cooling procedure.

#### Transport castors (BASIC up to 120 kg and PROFESSIONAL up to 400 kg)

Two of the four castors have a locking brake.

#### Other available options:

Semiconductor relay (noiseless)

An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.



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#### Inspection hole (including bung)

The inspection hole in the front of the body makes it possible to observe the ware during the firing procedure.

- Levelling feet for compensating for floor unevenness
- Flexible exhaust pipe •
- **Different controllers available** (see page 87) .
- Maximum temperature 1,350 °C . Bricks, heating elements and insulation designed for 1,350 °C

#### STUDIO-LINE CBN electric front-loader, up to 1,320 °C

#### Made from coated steel and stainless steel

Amongst other things, the front-loaders in the KITTEC STUDIO-LINE CBN model series are characterised by heating with heating elements in grooved bricks. This gives the elements effective protection within the wall structure.

The rear insulation in all CBN models guarantees an optimum temperature increase, even in the upper temperature range. With the bigger models from the CBN 100 S upwards, the standard three-sided heating of the sides and the base provides particularly good temperature distribution.

In the front-loaders of the CBN model series, we have deliberately used coated steel for the frame and stainless steel for the smooth surfaces. The stainless steel components are completely rust-proof, and vouch for our quality. Modern, environmentally friendly procedures in stainless steel processing are the guarantee of the latest standard with precision. This well thought-out combination of materials contributes to the CBN front-loaders fulfilling the special claim of the STUDIO-LINE: Real KITTEC quality at a very reasonable price!



**STUDIO-LINE CBN model series** 

Model	Volume [I]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Loading edge height [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
CBN 15	15	225	285	230	460	590	1370	1050	2.4	230 N~	11	1320	25
CBN 33	34	340	340	285	590	650	1410	1030	3	230 N~	13	1320	40
CBN 50 PLUS	52	360	400	340	610	710	1440	1010	3.6	230 N~	16	1280 ± 30	55
CBN 70 PLUS	76	400	400	460	650	710	1490	940	3.6	230 N~	16	1230 ± 30	60
CBN 70 S	76	400	400	460	650	710	1490	940	5.4	400 2N~	2x12 CEE16	1320	60
CBN 100 S	109	455	400	570	700	710	1460	800	7.4	400 3N~	3x11 CEE16	1320	85
CBN 140 S	140	455	515	580	700	820	1460	800	9	400 3N~	3x13 CEE16	1320	110
CBN 200 S	209	570	515	680	820	820	1530	750	11	400 3N~	3x16 CEE16	1320	140
CBN 280 S	298	570	625	800	820	930	1600	700	13.5	400 3N~	3x20 CEE32	1320	180
CBN 330 S	352	570	740	800	820	1050	1600	700	17	400 3N~	3x25 CEE32	1320	200

3-sided heating (from CBN 100 S upwards) for even

Lightweight refractory brick + high-quality, ceramic

ESP Energy Saving Package for extremely low energy

consumption (standard with all PLUS models, otherwise

Powder-coated base – in anthracite, green, yellow, red or

Continuous mortar-free brick lining reduces cracking

Exhaust cowl on the rear, condensation-proof

Door safety switch with positive break

Door can be opened wide (> 170°)

temperature distribution Two-layer insulation:

fibre-free insulation

optional)

silver if required

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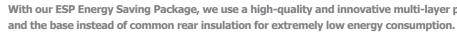


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#### **Optionally available:**

#### **ESP Energy Saving Package**



Because of this reinforced insulation, the heat is retained in the kiln in a much better way. On the one hand, this saves power, and on the other hand the heating elements wear more slowly.

#### Hearth air inlet slide valve

The hearth air inlet slide valve with the supply air opening in the base of the kiln makes it possible to optimise the firing procedure for special materials.

Experts and firing professionals appreciate this professional supply air setting. The hearth air inlet slide valve can also be used during the cooling phase for speeding up the cooling procedure.

## Inspection hole (including bung)

The inspection hole in the door makes it possible to observe the ware during the firing procedure.



#### Levelling feet

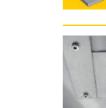
The levelling feet make it possible to compensate for floor unevenness to put the kiln on a firm footing. Individual height adjustment is carried out using a thread.

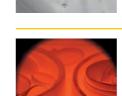


An extremely heat-permeable SiC base plate is available instead of the Cordierite base plate.

#### Other available options:

- Semiconductor relay (noiseless) • An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.
- Door hinge on the left •









With our ESP Energy Saving Package, we use a high-quality and innovative multi-layer premium insulation in the side

## Heat-permeable SiC base plate (from CBN 100 S upwards)

- **Transport castors** (2 of the 4 castors have a locking brake)
- **Different controllers available** (see page 87) •
- Maximum temperature 1,350 °C Bricks, heating elements and insulation designed for 1,350 °C
- Flexible exhaust pipe



# **KITTEC CLASSIC-LINE**

regular use with a long service life possible because of its robust and solid design. It is a kiln with the classic "as we know it" design.

Among other things, the KITTEC CLASSIC-LINE includes our successful CB range, with which KITTEC was one of Europe's first companies to launch a top-loader range in 1979.

Our KITTEC kilns are assembled with precision by our experts. At the end of a final product inspection, a test-engineer signs with his name for the quality. With their high-quality workmanship and balanced price / performance ratio, they are certainly also an interesting alternative for professional users. A special quality characteristic of all KITTEC kilns: Each heating element is individually adapted. This means that we have uniform heat distribution throughout the kiln.

We give a warranty of up to three years on our kilns, with the usual exception of the heating elements. We only use non-carcinogenic insulating materials for our kilns in accordance with TRGS 905, class 1 or 2.

1 Platinum rhodium thermocouple for temperature detection - wear-free and installed protected against breakage



1 Continuous, mortar-free brick-lined firing chamber reduces cracking in the lightweight refractory bricks



Useful handles for ergo nomic working



Kanthal heating elements with low surface load, secured to prevent slipping



# The KITTEC CLASSIC-LINE is not only intended for occasional use in schools or by hobby potters, but also makes

- Adapting the electrical systems of our kilns to any voltage variants for our customers in countries or regions with a different power grid is not a problem.
- We also have a solution for customers to whom commercial electricity is only available at off-peak times but would like to program their controller during the day with an external power supply.
- Our kilns are available from specialist dealers, who are at your side with advice and practical help for anything to do with firing.
- We would be pleased to tell you where our nearest sales partner is located.



#### CLASSIC-LINE CB electric top-loader, up to 1,320 °C

The KITTEC kilns in the CB model series are produced in small batches, and have an excellent price/performance ratio. They are a re-design of our successful CB range, with which KITTEC was one of Europe's first companies to launch a top-loader in 1979.



#### **CLASSIC-LINE CB model series, 230 V models**

- Heating elements on all sides for good heat distribution Two-layer insulation: 1 Lightweight refractory brick + high-quality, ceramic fiber-free insulation Heating elements protected in grooves Powder-coated base - in your choice of one of five 1 colours Stainless steel fastening clamps, welded on - rust-proof 1 and easy moving Continuous mortar-free brick lining reduces cracking Exhaust cowl at right-hand side, protected from condensation Lid lock (with lockable eyelet) Reversible base for two possible working heights Gas pressure spring support for easier lid opening (from CB 70 upwards)
- ⁄ Wide lid opening angle (> 90°) for easy loading
- ✓ Useful handles for secure and quick transport
- Customised products by request



Model	Basic design	Volume [l]	Firing chamber diameter [mm]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Overall height with reversed base [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
CB 20	round	20	330	-	-	230	590	660	550	-	2.9	230 N~	12	1320	30
CB 40	round	38	400	-	-	305	650	730	620	780	3.6	230 N~	16	1320	50
CB 50	round	47	400	-	-	380	650	730	700	860	3.6	230 N~	16	1280±30	55
CB 50 PLUS	round	47	400	-	-	380	650	730	740	900	3.6	230 N~	16	1320	55
CB 50 Double	round	47	400	-	-	380	670	740	740	900	3.6	230 N~	16	1320	60
CB 60	round	57	400	-	-	460	650	730	780	940	3.6	230 N~	16	1230±30	60
CB 60 PLUS	round	57	400	-	-	460	650	730	820	980	3.6	230 N~	16	1280±30	60
CB 60 Double	round	57	400	-	-	460	670	740	820	980	3.6	230 N~	16	1320	65
CB 66	round	66	400	-	-	535	650	730	850	1010	3.6	230 N~	16	1200±30	60
CB 66 PLUS	round	66	400	-	-	535	650	730	890	1050	3.6	230 N~	16	1250±30	60
CB 66 Double	round	66	400	-	-	535	670	740	890	1050	3.6	230 N~	16	1290±30	65
CB 70 PLUS	round	68	430	-	-	460	690	770	820	1140	3.6	230 N~	16	1230±30	60
CB 70 Double	round	68	430	-	-	460	710	780	820	1140	3.6	230 N~	16	1290±30	65
CB 80 PLUS	round	79	510	-	-	380	770	850	740	1050	3.6	230 N~	16	1200±30	65
CB 80 Double	round	79	510	-	-	380	790	860	740	980	3.6	230 N~	16	1250±30	70
CB 95 PLUS	round	95	510	-	-	460	770	850	820	1130	3.6	230 N~	16	1150±30	80
CB 95 Double	round	95	510	-	-	460	790	860	820	1060	3.6	230 N~	16	1210±30	85
												All o	data subject to te	chnical change wi	thout notice.

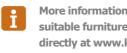


#### Variants of the CB model series:

- CB Plus contains high-quality and innovative premium insulation in the sides and the base, in addition to the lightweight refractory brick.
- in the sides and the base), and therefore achieves considerably higher firing temperatures than comparable 230 V models.
- **CB S** is constructed for high current operation. •
- •
- CB extension rings (with own heating elements) make it possible to extend certain CB models to have bigger firing chambers.

#### CLASSIC-LINE CB model series, 400 V models

				_	_	_		<u> </u>							
Model	Basic design	Volume [l]	Firing chamber diameter [mm]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Overall height with reversed base [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weigh [kg]
CB 50 S	round	47	400	-	-	380	650	730	700	860	4.7	400 2N~	2x12 CEE16	1320	55
CB 60 S	round	57	400	-	-	460	650	730	780	940	5	400 2N~	2x13 CEE16	1320	60
CB 66 S	round	66	400	-	-	535	650	730	850	1010	5	400 2N~	2x13 CEE16	1320	60
CB 70 S	round	68	430	-	-	460	690	770	780	1010	5.6	400 2N~	2x12 CEE16	1320	60
Extension ring for CB 70 S	round	34	430	-	-	230	690	770	230	-	3	-	-	-	25
CB 100 S	round	102	430	-	-	690	690	770	1010	-	8.6	400 3N~	3x13 CEE16	1320	85
CB 80 S	round	79	510	-	-	380	770	850	700	1010	5.6	400 2N~	2x13 CEE16	1320	65
Extension ring for CB 80 S	round	48	510	-	-	230	770	850	230	-	3.4	-	-	-	25
CB 120 S	round	127	510	-	-	610	770	850	930	-	9	400 3N~	3x15 CEE16	1320	90
CB 95 S	round	95	510	-	-	460	770	850	780	1090	7	400 2N~	2x16 CEE16	1320	80
Extension ring for CB 95 S	round	48	510	-	-	230	770	850	230	-	3.7	-	-	-	25
CB 140 S	round	143	510	-	-	690	770	850	1010	-	10.7	400 3N~	3x16 CEE16	1320	105
CB 130 S PLUS	round	127	590	-	-	460	850	930	820	1080	7.2	400 2N~	2x16 CEE16	1320	105
Extension ring for CB 130 S PLUS	round	63	590	-	-	230	850	930	230	-	3.8	-	-	-	30
CB 190 S PLUS	round	190	590	-	-	690	850	930	1050	-	11	400 3N~	3x16 CEE16	1320	135
CB 130 SX	round	127	590	-	-	460	850	930	780	1010	8.8	400 2N~	2x19 CEE32	1320	105
Extension ring for CB 130 SX	round	63	590	-	-	230	850	930	230	-	4.6	-	-	-	30
CB 190 SX	round	190	590	-	-	690	850	930	1010	-	13.4	400 3N~	3x19 CEE32	1320	135
CB 200 S	round	203	690	-	-	535	950	1030	850	-	11	400 2N~	2x24 CEE32	1320	145
Extension ring for CB 200 S	round	88	690	-	-	230	950	1030	230	-	6	-	-	-	35
CB 300 S	round	291	690	-	-	765	950	1030	1080	-	17	400 3N~	3x25 CEE32	1320	180
CB 220 S	oval	220	-	820	590	535	1020	930	850	1010	13.7	400 3N~	3x20 CEE32	1320	180
CB 330 S	oval	330	-	930	590	690	1130	930	1010	-	18	400 3N~	3x26 CEE32	1320	220
CB 380 S	oval	380	-	1045	590	690	1250	930	1010	-	19	400 3N~	3x28 CEE32	1320	230
CB 460 S	oval	466	-	1030	690	765	1240	1030	1080	-	21	400 3N~	3x31 CEE32	1320	245
CB 520 S	oval	525	-	1145	690	765	1350	1030	1080	-	22	400 3N~	3x32 CEE32	1320	260





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CB Double makes lower energy consumption possible thanks to a three-layer insulation (lightweight refractory brick + double innovative premium insulation

CB SX provides more output, and the service life of the heating elements is increased at the same time because of the optimum utilisation of the kiln output.

More information about the KITTEC CLASSIC-LINE CB top-loader and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!



#### **Optionally available:**



#### **Extension rings**

The KITTEC CLASSIC-LINE extension rings bring 50 % additional volume and therefore more space and flexibility. The extension rings are currently available for the following CLASSIC-LINE CB kilns: CB 70 S, CB 80 S, CB 95 S, CB 130 S PLUS, CB 130 SX and CB 200 S, and for the CLASSIC-LINE SQ models SQ 90 S and SQ 150 S. Additional advantage: The divisibility of these extendible or extended models makes transport through the narrowest of door openings possible (from door width of 50 cm).



#### Lid heating

Additional lid heating turns your kiln into a combination kiln which is suitable for conventional firing procedures and also other applications such as glass fusing.

The switch of this lid heating is not just a selector switch for "Lid heating on/off" or "Side heating on/off" but a continuously adjustable switch with which you can set the ratio of lid heating to side heating yourself. It couldn't be easier when it comes to alternate firing of both ceramics and glass, for example!

Not available for CB 380 S, CB 460 S and CB 520 S.



#### Hearth heating

The additional heating in the base is protected in grooves and integrated in the kiln heating circuit.



#### ESP Energy Saving Package

With our ESP Energy Saving Package, we use a high-quality and innovative multi-layer premium insulation in the side and the base instead of common rear insulation for extremely low energy consumption.

Because of this reinforced insulation, the heat is retained in the kiln in a much better way. On the one hand, this saves power, and on the other hand the heating elements wear more slowly.



#### Inspection hole (including bung)

The inspection hole in the front of the body makes it possible to observe the ware during the firing procedure.



#### Hearth air inlet slide valve (without drip tray)

The hearth air inlet slide valve with the supply air opening in the base of the kiln makes it possible to optimise the firing procedure for special materials.

Experts and firing professionals appreciate this professional supply air setting. The hearth air inlet slide valve can also be used during the cooling phase for speeding up the cooling procedure.



#### Levelling feet

The levelling feet make it possible to compensate for floor unevenness to give the kiln a firm footing. Individual height adjustment is carried out using a thread.

#### Other available options:

- Semiconductor relay (noiseless) An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.
- Maximum temperature 1,350 °C Bricks, heating elements and insulation designed for 1,350 °C
- Different controllers available (see page 87)
- **Transport castors** (BASIC up to 120 kg and PROFESSIONAL up to 400 kg, 2 of the 4 castors have a locking brake)
- Exhaust air opening on the left instead of on the right .
- Flexible exhaust pipe

#### **CLASSIC-LINE** extension rings

The KITTEC CLASSIC-LINE extension rings (with own heating elements) for the CB and SQ model series bring additional volume and therefore more space and flexibility.

For the KITTEC CLASSIC-LINE CB and SQ models we can supply retrofittable extension rings for certain kiln sizes. You therefore have the advantage of a lower initial investment, but you can also extend your kiln to give it a bigger firing chamber at any time in an uncomplicated way. This gives you more room for more or bigger wares. The power density remains the same, since the extension rings have their own heating elements. In this way, extending a CB 70 S to a CB 100 S provides additional volume of 34 I, 230 mm more height and 3.0 kW more output. Another advantage of the modular design is easier transport, also through narrow door openings (from door width of 50 cm), since the kiln can be completely reassembled at the installation location if necessary.





Extension of a CB kilr





Extension of a SO kiln

Here are our CLASSIC-I	LINE ex	tensi	on rings								<b>y L</b>
Model	Basic design	Volume [l]	Firing chamber diameter [mm]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Output [kW]	Weight [kg]
Extension ring for CB 70 S (to CB 100 S)	round	34	430	-	-	230	690	770	230	3	25
Extension ring for CB 80 S (to CB 120 S)	round	48	510	-	-	230	770	850	230	3.4	25
Extension ring for CB 95 S (to CB 140 S)	round	48	510	-	-	230	770	850	230	3.7	25
Extension ring for CB 130 S PLUS (to CB 190 S PLUS)	round	63	590	-	-	230	850	930	230	3.8	30
Extension ring for CB 130 SX (to CB 190 SX)	round	63	590	-	-	230	850	930	230	4.6	30
Extension ring for CB 200 S (to CB 300 S)	round	88	690	-	-	230	950	1030	230	6	35
Extension ring for SQ 90 S (to SQ 140 S)	square	48	-	450	450	230	725	810	230	3.8	25
Extension ring for SQ 150 S (to SQ 220 S)	square	76	-	560	560	230	840	930	230	6	30





All data subject to technical change without notice.

#### CLASSIC-LINE SQ electric top-loader, up to 1,320 °C

KITTEC is the first manufacturer worldwide to offer square kilns without the heavy, bulky steel frame. These kilns are therefore very easy to transport, since they will fit through any door opening of 50 cm or more. With the SQ model series, you also have the possibility of extending it with an extension ring.

Two-layer insulation:

colours

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and easy moving

 Lightweight refractory brick + high-quality, ceramic fiber-free insulation

Heating elements protected in grooves

Lid lock (with lockable eyelet)

(from SQ 90 upwards)

Powder-coated base - in your choice of one of five

Continuous mortar-free brick lining reduces cracking

Reversible base for two possible working heights

Gas pressure spring support for easier lid opening

Wide lid opening angle (> 90°) for easy loading

Useful handles for secure and quick transport

Customised products by request

Stainless steel fastening clamps, welded on - rust-proof

Exhaust cowl at right-hand side, protected from conden-



#### Variants of the SQ model series:

- SQ Plus models, in addition to the lightweight refractory brick, also contain high-quality and innovative premium insulation in the sides and the base. •
- **SQ S** models are constructed for high current operation.
- SQ extension rings (with own heating elements) make it possible to extend certain SQ models to have bigger firing chambers. •

#### **CLASSIC-LINE SQ model series**

Model	Basic design	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Overall height with reversed base [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
SQ 11	square	11	220	220	230	475	560	550	730	2.4	230 N~	11	1320	25
SQ 50 PLUS	square	52	380	380	340	670	770	660	890	3.6	230 N~	16	1280±30	55
SQ 50 Double	square	52	380	380	340	690	780	660	890	3.6	230 N~	16	1320	55
SQ 70 PLUS	square	70	380	380	460	670	770	780	1010	3.6	230 N~	16	1200±30	65
SQ 70 Double	square	70	380	380	460	690	780	780	1010	3.6	230 N~	16	1250±30	65
SQ 70 S	square	70	380	380	460	670	770	780	-	5.6	400 2N~	2x12 CEE16	1320	65
SQ 90 S	square	97	450	450	460	730	810	780	1010	7.2	400 2N~	2x16 CEE16	1320	85
Extension ring for SQ 90 S	square	48	450	450	230	730	810	230	-	3.8	-	-	1320	25
SQ 140 S	square	145	450	450	690	730	810	1010	-	11	400 3N~	3x16 CEE16	1320	110
SQ 150 S	square	153	560	560	460	840	930	780	1010	12	400 3N~	3x26 CEE32	1320	120
Extension ring for SQ 150 S	square	76	560	560	230	840	930	230	-	6	-	-	1320	30
SQ 220 S	square	229	560	560	690	840	930	1010	-	18	400 3N~	3x26 CEE32	1320	150
SQ 165 S	rectangular	165	780	450	460	980	790	780	1010	11	400 3N~	3x16 CEE16	1320	140
SQ 235 S	rectangular	235	780	560	535	980	900	850	-	16	400 3N~	3x24 CEE32	1320	180
SQ 350 S	rectangular	350	890	560	690	1090	900	1010	-	20	400 3N~	3x29 CEE32	1320	250
SQ 390 S	rectangular	390	890	560	765	1090	900	1080	-	22	400 3N~	3x32 CEE32	1320	270

All data subject to technical change without notice



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#### **Optionally available:**

#### **Extension with extension rings**



The KITTEC CLASSIC-LINE extension rings bring 50 % additional volume and therefore more space and flexibility. The extension rings are currently available for the following CLASSIC-LINE SQ kilns: SQ models SQ 90 S and SQ 150 S and also for the CLASSIC-LINE CB models CB 70 S, CB 80 S, CB 95 S, CB 130 S PLUS, CB 130 SX and CB 200 S. Additional advantage: The divisibility of these extendible or extended models makes transport through the narrowest of door openings possible (from door width of 50 cm)

#### Lid heating



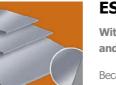
also other applications such as glass fusing.

The switch of this lid heating is not just a selector switch for "Lid heating on/off" or "Side heating on/off" but a continuously adjustable switch with which you can set the ratio of lid heating to side heating yourself. It couldn't be easier when it comes to alternate firing of both ceramics and glass, for example! Not available for SQ 350 S and SQ 390 S.



## Hearth heating

The additional heating in the base is protected in grooves and integrated in the kiln heating circuit.



ESP Energy Saving Package

and the base instead of common rear insulation for extremely low energy consumption.

Because of this reinforced insulation, the heat is retained in the kiln in a much better way. On the one hand, this saves power, and on the other hand the heating elements wear more slowly.

## Inspection hole (including bung)

The inspection hole in the front of the body makes it possible to observe the ware during the firing procedure.

#### Other available options:

- Semiconductor relay (noiseless) An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.
- Maximum temperature 1,350 °C • Bricks, heating elements and insulation designed for 1,350 °C







#### Additional lid heating turns your kiln into a combination kiln which is suitable for conventional firing procedures and

# With our ESP Energy Saving Package, we use a high-quality and innovative multi-layer premium insulation in the side

- Hearth air inlet slide valve (without drip tray)
- **Different controllers available** (see page 87)
- Transport castors (2 of the 4 castors have a locking brake)
- Exhaust air opening on the left instead of on the right •
- Flexible exhaust pipe .
- Levelling feet for compensating for floor unevenness

## CLASSIC-LINE CBF/SQF electric fusing top-loader, up to 1,000 °C

The KITTEC CBF and SQF model series for glass fusing are a further development of the successful CB range, with which KITTEC was one of Europe's first companies to launch a top-loader range in 1979.

Fusing is a very old form of glass processing. The glass is heated from above in order to fuse it with other parts or clay objects.



- Lid heating on support bars Two-layer insulation: 1 Lightweight refractory brick + high-quality, ceramic fiber-free insulation 1 Short heat-up times up to 1.000 °C Inspection hole in body (including bung) Housing surface made from stainless steel – rust-proof Powder-coated base - in your choice of one of five colours Stainless steel fastening clamps, welded on - rust-proof and easy moving Continuous mortar-free brick lining reduces cracking ~ Thermocouple for temperature measurement - protected 1 installation
- Exhaust cowl at right-hand side, protected from conden-1 sation
- Lid lock (with lockable eyelet)
- Reversible base for two possible working heights available for CBF models
- Gas pressure spring support for easy lid opening
- Large lid opening angle for easy loading
- Customised products by request

#### **CLASSIC-LINE CBF/SQF model series**

Model	Basic design	Volume [I]	Firing chamber diameter [mm]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Overall height with reversed base [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
CBF 45	round	45	430	-	-	305	690	710	700	920	3.6	230 N~	16	1000	50
CBF 65	round	63	510	-	-	305	770	790	700	920	3.6	230 N~	16	1000	60
CBF 65 S	round	63	510	-	-	305	770	790	700	920	5	400 2N~	2x13 CEE16	1000	60
CBF 85 S	round	84	590	-	-	305	850	870	700	920	6	400 2N~	2x13 CEE16	1000	70
CBF 115 S	round	115	690	-	-	305	950	970	700	920	7	400 2N~	2x16 CEE16	1000	80
SQF 95 S	rectangular	102	-	560	560	305	860	960	880		6.9	400 3N~	3x10 CEE16	1000	75
SQF 180 S	rectangular	183	-	1015	560	305	1320	960	880	-	8.4	400 3N~	3x13 CEE16	1000	120

All data subject to technical change without notice.



More information about the KITTEC CLASSIC-LINE CBF and SQF top-loaders and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!



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Heating on support bars

#### **Optionally available:**

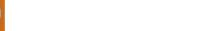


#### **Different controllers available**

High-quality controllers make it possible to adapt the temperature behaviour or include soaking times. More information about all of the available controllers/thermocomputers can be found on page 87.

#### Flexible exhaust pipe





## Transport castors (BASIC up to 120 kg and PROFESSIONAL up to 400 kg)

Two of the four castors have a locking brake.

# Levelling feet

# carried out using a thread (only available for CBF).

#### Other available options:

 Semiconductor relay (noiseless) An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.







Inspection hole as standard in all CBF/SQF models

The levelling feet make it possible to compensate for floor unevenness to give the kiln a firm footing. Individual height adjustment is

• Different firing chamber height: 305 or 455 mm

#### CLASSIC-LINE CL electric front-loader, up to 1,320 °C

The front-loaders in the KITTEC CLASSIC-LINE CL model series are characterised by heating with heating elements in grooved bricks. The coils are integrated in the wall structure, where they are well protected. 3-sided heating from the sides and the base provides good temperature distribution. The 5-sided heating for optimum temperature distribution in the firing chamber is installed on the sides, the rear wall, the door and the base.



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/	CL-3 models: 3-sided heating for good heat distribution
~	CL-5 models: 5-sided heating for optimum heat distribution
<b>/</b>	Three-layer insulation for low energy consumption
1	Robust door hinges, adjustable
1	SiC ceiling plate – no contamination from the ceiling
~	Stainless steel sheets on the sides, on the door and on the lintel – rust-proof
<	Powder-coated steel frame available in one of six colours
~	Continuous mortar-free brick lining reduces cracking
<b>~</b>	Perforated sheet metal on the kiln to prevent moisture build-up
~	Bypass exhaust air system on the right side, condensa- tion-proof
<	Stainless steel door lock
1	Wide door opening angle (approx. 150°) for easy loading

- Removable pair of legs for easier transport
- Customised products by request

CLASSIC-LINE	<b>CL model</b>	series
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Model	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Loading edge height [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
CL 43-3	46	350	390	340	590	720	1450	980	3.6	230 N~	16	1320	90
CL 60-3	62	350	390	455	590	720	1500	920	3.6	230 N~	16	1230±30	120
CL 100-3	103	400	450	570	640	770	1520	820	7.6	400 3N~	3x11 CEE16	1320	160
CL 140-3	149	450	580	570	690	900	1520	820	9	400 3N~	3x13 CEE16	1320	220
CL 210-3	205	520	580	680	760	900	1630	820	11	400 3N~	3x16 CEE16	1320	270
CL 280-3	271	550	580	850	790	900	1800	820	15	400 3N~	3x22 CEE32	1320	300
CL 330-3	327	610	610	880	850	930	1830	820	18	400 3N~	3x26 CEE32	1320	400
CL 440-3	430	610	720	980	850	1040	1830	720	22	400 3N~	3x32 CEE32	1320	540
CL 600-3	610	720	830	1020	960	1150	1870	720	30	400 3N~	3x44 CEE63	1320	660
CL 100-5	103	400	450	570	640	820	1520	820	7.6	400 3N~	3x11 CEE16	1320	170
CL 140-5	149	450	580	570	690	950	1520	820	9	400 3N~	3x13 CEE16	1320	230
CL 210-5	205	520	580	680	760	950	1630	820	11	400 3N~	3x16 CEE16	1320	280
CL 280-5	271	550	580	850	790	950	1800	820	15	400 3N~	3x22 CEE32	1320	310
CL 330-5	327	610	610	880	850	980	1830	820	18	400 3N~	3x26 CEE32	1320	400
CL 440-5	430	610	720	980	850	1090	1830	720	22	400 3N~	3x32 CEE32	1320	540
CL 600-5	610	720	830	1020	960	1200	1870	720	32	400 3N~	3x46 CEE63	1320	660

All data subject to technical change without notice.

More information about the KITTEC CLASSIC-LINE CL front-loader and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!



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#### **Optionally available:**



## Inspection hole (including bung)

The inspection hole in the door makes it possible to observe the ware during the firing procedure.



#### Hearth air inlet slide valve (without drip tray)

The hearth air inlet slide valve with the supply air opening in the base of the kiln makes it possible to optimise the firing procedure for special materials.

Experts and firing professionals appreciate this professional supply air setting. The hearth air inlet slide valve can also be used during the cooling phase for speeding up the cooling procedure.

#### Transport castors (up to 400 kg)

Two of the four castors have brakes.



# Levelling feet

The levelling feet make it possible to compensate for floor unevenness to give the kiln a firm footing. Individual height adjustment is carried out using a thread.

#### Other available options:

- Semiconductor relay (noiseless) An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.
- Loading rack for easy kiln loading •
- SiC floor plate very high heat-permeability •
- Door hinge and exhaust air opening on the left .
- Flexible exhaust pipe •





Cordierite base plate

- Exhaust flap control (only with TC 505, 507, 705 or 707)
- Supply air flap control (only with TC 505, 507, 705 or 707)
- **Cooling fan**, manual or automatic (only with TC 505, 507, 705 or 707) •
- **2-zone controller** (only with TC 505, 507, 705 or 707) •
- **3-zone controller** (only with TC 505, 507, 705 or 707) •
- Maximum temperature 1,350 °C • Bricks, heating elements and insulation designed for 1,350 °C
- Different controllers available (see page 87)

#### CLASSIC-LINE CT electric front-loader, up to 1,320 °C

The CT front-loaders from the KITTEC CLASSIC-LINE are heated with heating elements on silimantin support bars. The high-quality and complex construction with support bars is the guarantee of a very long service life. 3-sided or 5-sided heating ensures good temperature distribution. The 5-sided heating for optimum temperature distribution in the firing chamber is installed on the sides, the rear wall, the door and the base.



#### **CLASSIC-LINE CT model series**

1	CT-3 models: 3-sided heating for good heat distribution
~	CT-5 models: 5-sided heating for optimum heat distribution
~	Three-layer insulation for low energy consumption
~	Robust door hinges, adjustable

- 1 SiC ceiling plate - no contamination from the ceiling
- 1 Cordierite base plate

- Stainless steel sheets on the sides, on the door and on the lintel - rust-proof
- 1 Powder-coated steel frame available in one of six colours
- 1 Continuous mortar-free brick lining reduces cracking
- Perforated sheet metal on the kiln to prevent moisture build-up
- Bypass exhaust air system on the right side, condensation-proof
- Certified door safety switch with positive break V
- 1 Wide door opening angle (approx. 150°) for easy loading
- Removable pair of legs for easier transport V
- ~ Customised products by request
- ////





More information about the KITTEC CLASSIC-LINE CT front-loader and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!



All data subject to technical change without notice



Door heating

#### **Optionally available:**



# Inspection hole (including bung)

The inspection hole in the door makes it possible to observe the ware during the firing procedure.



## Hearth air inlet slide valve (without drip tray)

The hearth air inlet slide valve with the supply air opening in the base of the kiln makes it possible to optimise the firing procedure for special materials.

Experts and firing professionals appreciate this professional supply air setting. The hearth air inlet slide valve can also be used during the cooling phase for speeding up the cooling procedure.

#### Transport castors (up to 400 kg)

Two of the four castors have a locking brake.



#### Loading rack

A loading rack makes optimum preparation of the ware outside the kiln possible, and easy loading of the kiln.

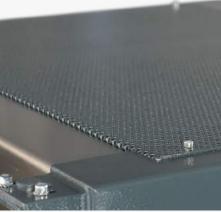
#### Other available options:

- Semiconductor relay (noiseless) An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.
- Loading rack for easy kiln loading •
- SiC floor plate very high heat-permeability .
- Door hinge and exhaust air opening on the left .
- Flexible exhaust pipe •



# **KITTEC**®





Perforated plate to prevent moisture build-up

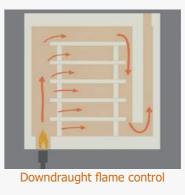
- Exhaust flap control (only with TC 505, 507, 705 or 707)
- Supply air flap control (only with TC 505, 507, 705 or 707)
- **Cooling fan**, manual or automatic (only with TC 505, 507, 705 or 707)
- **2-zone controller** (only with TC 505, 507, 705 or 707)
- 3-zone controller (only with TC 505, 507, 705 or 707) •
- . Maximum temperature 1,350 °C Bricks, heating elements and insulation designed for 1,350 °C
- Different controllers available (see page 87)

#### CLASSIC-LINE CBG gas top-loader, up to 1,320 °C

#### Gas technology - simple and safe!

The KITTEC kilns in the CBG model series are produced in small batches, and have an excellent price/performance ratio. As well as being independent of electrical connections, the possibility of firing under a reduction atmosphere is a particularly strong argument in favour of using gas kilns. However, this reduction firing requires a certain amount of firing experience, since it is not easy to reproduce. Each item that is fired is slightly different - and therefore unique. The KITTEC gas kilns are equipped with burners for propane/butane as standard. However, we can also provide natural gas heating systems. One of the outstanding quality characteristics of the KITTEC gas kilns is the so-called downdraught flame control, which provides absolutely even temperature distribution in the entire kiln. The best prerequisites for gas kiln professionals.







- High performance burner with extremely good control for propane/butane (extremely quiet)
- Extremely short heat-up times
- Two-layer insulation: Lightweight refractory brick + high-quality,
- ceramic fiber-free insulation
- Low energy consumption
- Bottle connector (pressure regulator with manometer including all fittings between burner and gas bottle)
- ~ Temperature indicator (battery-powered)
- ~ Chimney capstones for manual reduction control
- Powder-coated base in your choice of one of five colours
- Stainless steel fastening clamps, welded on rust-proof and easy moving
- Includes CO alarm ⁄
- ~ Continuous mortar-free brick lining reduces cracking
- Gas pressure spring support for easy lid opening
- Wide lid opening angle (> 90°) for easy loading
- Warranty of up to 3 years
- V Quality assurance test seal
- Customised products by request

# 6

CLASS		NE CBO	G model se	ries								تا (
Model	Basic design	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Number of burners	Output [kW]	Max. temperature [°C]	Weight [kg]
CBG 90	oval	90	450	510	460	850	750	780	1	20	1320	100
CBG 160	oval	160	540	590	530	940	830	850	2	40	1320	130
CBG 210	oval	210	540	590	690	940	830	1010	2	40	1320	150
CBG 280	oval	280	640	690	690	1050	930	990	2	40	1320	180

All data subject to technical change without notice.



More information about the KITTEC CLASSIC-LINE CBG top-loader and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!



## **Optionally available:**



#### Natural gas burner

An air compressor is needed to operate the natural gas burner.



Two of the four castors have a locking brake.



•

#### Levelling feet

The levelling feet make it possible to compensate for floor unevenness to give the kiln a firm footing. Individual height adjustment is carried out using a thread.

#### Other available options:

- Propane or natural gas firing curve management incl. TC66 • controller, semi-automatic, makes individually adjustable automatic firing curves possible (but no automatic oxygen level control)
  - Maximum temperature 1,350 °C Bricks, heating elements and insulation designed for 1,350 °C



## Inspection hole (including bung)

The inspection hole in the front of the body makes it possible to observe the ware during the firing procedure.

## Transport castors (PROFESSIONAL up to 400 kg)

• Stainless exhaust hood (with ø 150 mm flue connection) w/ burner system on the right instead of on the left, flue on the left instead of on the right • 230 V mains adapter for temperature indicator • **Oxygen probe** for atmosphere measurement 2-bottle adapter

#### CLASSIC-LINE CBR, Raku top and front-loaders up to 1,150 °C

Raku – a firing technique from the Far East, has experienced a real boom over the last few years. Each ceramic item that is made is unique, unmistakeable and not reproducible. The ware is bisque fired and usually glazed before being heated to 750 to 1,050 °C. It is then removed from the kiln with the Raku tongs, still glowing. It is then reduced by putting it into a container with sawdust, leaves or grass inside it. Immersion in water ultimately alters the glaze again. In this way, anyone can develop their own technique for giving their ceramics a personal, individual touch. This is what makes Raku a different experience every time. Our Raku kilns are characterised by being easy to transport, having very short heat-up times, and being easy to use. The KITTEC CBR Raku top-loaders and the CBR Raku front-loader kilns have all of these advantages. They are a low-cost and robust alternative to self-built "Raku drums" - ceramic fibre-free and long-lasting. And with an excellent price/performance ratio.

The specified firing chamber height is the height of the useable space above the base plate on the lightweight refractory brick blocks.





#### **CLASSIC-LINE CBR-T and CBR-F model series**

Model	Basic design	Volume [l]	Firing chamber diameter [mm]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Loading edge height [mm]	Output [kW]	Max. temperature [°C]	Weight [kg]
CBR 44 T	round	41	395	-	-	330	620	680	770	-	20	1150	45
CBR 80 T	round	71	430	-	-	480	660	720	920	-	20	1150	70
CBR 120 T	round	116	510	-	-	560	740	800	1000	-	30	1150	85
CBR 170 T	round	154	590	-	-	560	820	880	1000	-	30	1150	110
CBR 90 F	rounded	98	-	455	455	440	690	610	870	200	20	1150	85
CBR 180 F	rounded	179	-	570	455	670	800	610	1100	200	30	1150	130

All data subject to technical change without notice



More information about the KITTEC CLASSIC-LINE CBR-T and CBR-F top-loaders and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!





#### **Optionally available:**



Raku burner with mount

Extremely quiet, high performance burner for propane/butane (20 kW or 30 kW) with good control



**Bottle connector** 

With a suitable quick-release connection for our burners, including pressure regulator, manometer and hose rupture protection



#### 2-bottle adapter

Including changeover device



#### **Temperature measurement**

Thermocouple and temperature indicator (battery-powered)

#### Transport castors, extra-large (up to 400 kg)

Two of the four castors have a locking brake.



#### Levelling feet

The levelling feet make it possible to compensate for floor unevenness to give the kiln a firm footing. Individual height adjustment is carried out using a thread.

#### Other available options:

- Mains adapter 230 V for temperature indicator .
- **Door hinge on the left** (for CBR-F front-loader)





#### CLASSIC-LINE CBRB, Raku ring kilns up to 1,150 °C

Raku - a firing technique from the Far East, has experienced a real boom over the last few years. Each ceramic item that is made is unique, unmistakeable and not reproducible. Anyone can develop their own technique for giving their ceramics a personal, individual touch. In many cases, this individuality requires an adaptable kiln.

The KITTEC CBRB Raku ring kiln provides many adaption options. In its basic version it consists of a lid ring, a base ring and three intermediate mounting rings. This basic version can be supplemented with a maximum of 7 additional mounting rings (each with a volume of 23 I).

Flame control in "Up Draught"

for the burner area

and easy moving

colours

~

~

High-quality insulation for extremely short heat-up times

Base plate including lightweight refractory brick blocks

Stainless steel fastening clamps, welded on - rust-proof

Continuous mortar-free brick lining reduces cracking

Gas pressure spring support for easy lid opening

Removable base for easy transportation

Customised products by request

Housing surface made from stainless steel – rust-proof Powder-coated base - in your choice of one of five

A 20 kW burner is needed to reach the temperature of 1,150 °C. The Raku set with the 30 kW burner should be used from a model size of 135 I upwards.



CBRB with 3 intermediate mounting rings

#### **CLASSIC-LINE CBRB model series**

Model	Basic design	Volume [l]	Firing chamber diameter [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Output [kW]	Max. temperature [°C]	Weight [kg]
CBRB without mounting rings	round	40	510	213	740	770	590	20	1150	40
CBRB incl. 1 mounting ring	round	67	510	325	740	770	700	20	1150	50
CBRB incl. 2 mounting rings	round	90	510	435	740	770	810	20	1150	60
CBRB incl. 3 mounting rings	round	114	510	550	740	770	920	20	1150	70
CBRB incl. 4 mounting rings	round	136	510	660	740	770	1040	30	1150	80
CBRB incl. 5 mounting rings	round	159	510	770	740	770	1150	30	1150	90
CBRB incl. 6 mounting rings	round	182	510	880	740	770	1260	30	1150	100
CBRB incl. 7 mounting rings	round	204	510	990	740	770	1370	30	1150	110
CBRB mounting ring	round	23	510	110	740	770	112	-	1150	10
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More information about the KITTEC CLASSIC-LINE CBRB ring kiln and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!



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#### **Optionally available:**

#### Raku burner with mount

Extremely quiet, high performance burner for propane/butane (20 kW or 30 kW) with good control



#### **Bottle connector**

With a suitable quick-release connection for our burners, including pressure regulator, manometer and hose rupture protection



#### 2-bottle adapter

Including changeover device



#### **Temperature measurement**

Thermal element and temperature indicator (battery-powered)

#### Transport castors, extra-large (up to 400 kg)

Two of the four castors have a locking brake.



#### Levelling feet

The levelling feet make it possible to compensate for floor unevenness to give the kiln a firm footing. Individual height adjustment is carried out using a thread.

#### Other available options:

• Mains adapter 230 V for temperature indicator







# ☑ KITTEC PROFESSIONAL-LINE

The KITTEC kilns in the PROFESSIONAL-LINE are the highlight of the new KITTEC era. The housing and the frame made from all-stainless steel are an unmistakeable feature. Feet with height adjustment are just as unique as the SiC ceiling plate and U-plates with rear ventilation.

The entire firing procedure is controlled by a digital controller. This gives you considerable flexibility with regard to choice of time and temperature, and also offers reliable fixed programmes (not for the TC44). To start the firing procedure, simply select a firing curve. The procedure then takes place automatically.

Due to the microprocessor control with the digitally storable firing curves and the exact temperature measurement with the platinum rhodium thermocouple, individual firing procedures are possible and can be repeated acurately any time. The controller that is the most appropriate for your application depends on your requirements and therefore on the firing curve you require.

The KITTEC PROFESSIONAL-LINE includes top-loader and front-loader kilns with a firing chamber volume of 48 litres (X 45) to 1,053 litres (XR 1060). Choose the kiln that suits your many years. ware.

Special tasks also require special kilns! KITTEC fulfils these tasks with professional customised products. Let us know what you need! The kilns in the KITTEC

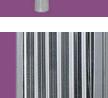
PROFESSIONAL-LINE are produced in small batches. The kilns are assembled by hand, and even the specially designed heated conductors made from Kanthal are wound by hand.



Very robust, adjustable door hinge on the front-loader kilns



Feet with height adjustment



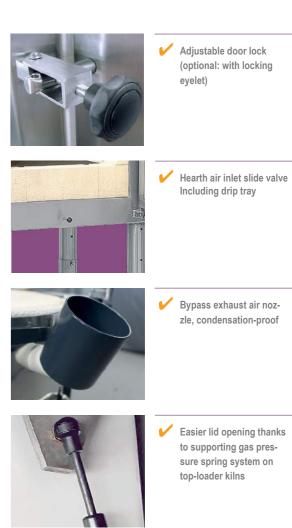
Stainless steel housing and frame



High quality and innovative multi-layer premium insulation

# **WKITTEC**<sup>®</sup>

- Adapting the electrical systems of our kilns to any voltage variants for our customers in countries or regions with a different power grid is not a problem.
- We also have a solution for customers to whom commercial electricity is only available at off-peak times but who would like to program their controller during the day with an external power supply.
- We use temperature-resistant cables and ensure that all stainless steel components are annealed in an environmentally friendly way. High-guality materials from renowned suppliers are assembled with precision by our experts. We only use non-carcinogenic insulating materials for our kilns in accordance with TRGS 905, class 1 or 2.
- At the end of a final product inspection, a test-enigneer signs for the quality. Each KITTEC kiln will be your reliable partner for
- We give a warranty of up to 3 years on the kilns.
- (excluding the heating elements)
- Whichever way you look at it the KITTEC **PROFESSIONAL-LINE** is accommodating.



#### PROFESSIONAL-LINE X electric top-loader, up to 1,320 °C

#### In all 230 Volt and 400 Volt models in KITTEC model series X, the energy utilisation is very efficient thanks to our design.

Specially designed Kanthal heating coils, high-quality lightweight refractory bricks and the innovative multi-layer premium insulation make a maximum operating temperature of 1,320 °C possible depending on the model. Because of the round design, the heat-emitting kiln surface is minimised. While all of the bright components reflect the heat, the heat is led away in a targeted way via the dark rear wall. The controllable supply air duct in the base is used to improve the atmosphere in the kiln. The advantage of the 400 Volt 3-phase current models is that the overall firing time can be reduced thanks to shorter heat-up phases.



#### **PROFESSIONAL-LINE** model series X

Model	Basic design	Volume [l]	Firing chamber diameter [mm]	Firing chamber height [mm]	External diameter without frame [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
X 45	round	48	430	325	610	710	790	1050	3.6	230 N~	16	1320	75
X 45 S	round	48	430	325	610	710	790	1050	4.4	400 2N~	2x10 CEE16	1320	75
X 55	round	59	430	400	610	710	790	1050	3.6	230 N~	16	1280±30	85
X 55 S	round	59	430	400	610	710	790	1050	4.4	400 2N~	2x10 CEE16	1320	85
X 65	round	71	430	480	610	710	790	1050	3.6	230 N~	16	1250±30	90
X 65 S	round	71	430	480	610	710	790	1050	5.6	400 2N~	2x12 CEE16	1320	90
X 75	round	82	430	555	610	710	790	1050	3.6	230 N~	16	1200±30	95
X 75 S	round	82	430	555	610	710	790	1050	5.6	400 2N~	2x12 CEE16	1320	95
X 85	round	83	510	400	690	780	870	1050	3.6	230 N~	16	1200±30	90
X 85 S	round	83	510	400	690	780	870	1050	5.6	400 2N~	2x12 CEE16	1320	90
X 100 S	round	99	510	480	690	780	870	1050	6.8	400 3N~	3x10 CEE16	1320	105
X 115 S	round	115	510	555	690	780	870	1050	7.3	400 3N~	3x11 CEE16	1320	110
X 135 S	round	132	590	480	770	860	950	1050	8.2	400 3N~	3x12 CEE16	1320	125
X 170 S	round	174	590	630	770	860	950	1050	11	400 3N~	3x16 CEE16	1320	140
X 195 S	round	196	590	710	770	860	950	1050	11	400 3N~	3x16 CEE16	1320	150
X 215 S	round	215	590	780	770	860	950	1050	11	400 3N~	3x16 CEE16	1320	160
X 215 SX	round	215	590	780	770	860	950	1050	13.4	400 3N~	3x19 CEE32	1320	160
X 240 S	round	243	690	645	870	980	1090	1050	14	400 3N~	3x20 CEE32	1320	160
X 270 S	round	268	690	710	870	980	1090	1050	15	400 3N~	3x22 CEE32	1320	170
X 300 S	round	294	690	780	870	980	1090	1050	17	400 3N~	3x25 CEE32	1320	180
											All data subject t	o technical change	without notice.

Base and body made from one piece, without a cold bridge Perfectly closing swinging lid system by means of unique pendulum mounting With bypass exhaust air system and air inlet slide valve for perfect firing control 1 All exposed steel parts are made from stainless steel Continuous mortar-free brick lining reduces cracking Lightweight refractory brick ASTM 26 at the upper body edge, which is subjected to the most stress

ESP Energy Saving Package: High-quality and innovative multi-layer premium insulation, low energy consumption and fastest heating, even in the upper temperature range

- Lid lock with lockable eyelet
- Stainless steel guard bracket in front of the loading edge
- Large lid opening angle: The opening allows access to the complete firing chamber diameter
- Easy to load, ergonomic working height of 97 cm Extremely smooth single-hand-operated lid mechanism,
- 1 allows safe opening and closing of the kiln through the X-handle - decentralised in the cold area
- 1 Optimised balance of the lid prevents accidents
- Transport castors on the rear axle





## **Optionally available:**

#### Lid heating



Additional lid heating turns your kiln into a combination kiln which is suitable for conventional firing procedures and also other applications such as glass fusing. The switch of this lid heating is not just a selector switch for "Lid heating on/off" or "Side heating on/off" but a continuously adjustable switch with which you can set the ratio of lid heating to side heating yourself. It couldn't be easier when it comes to alternate firing of both ceramics and glass, for example!

#### Hearth heating

The additional heating in the base is protected in grooves and integrated in the kiln heating circuit.



#### Flexible exhaust pipe

## Inspection hole (including bung)

The inspection hole in the front of the body makes it possible to observe the ware during the firing procedure.

# Other available options:

- Lid handle and controller on the right, exhaust on the left •
- Maximum temperature 1,350 °C Bricks, heating elements and insulation designed for 1,350 °C
- Different controllers available (see page 87) •



More information about the KITTEC PROFESSIONAL-LINE X top-loader and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!



• Semiconductor relay (noiseless) An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.



## PROFESSIONAL-LINE XR electric front-loader, up to 1,320 °C

The KITTEC PROFESSIONAL-LINE front-loaders in the XR model series are characterised by being heated using heating elements in grooved bricks. The elements are integrated in the wall structure, where they are well protected.

5-sided heating from the rear wall, the sides, the door and the base provides optimum all-round temperature distribution.

We have deliberately decided to use a kiln housing made from rust-proof stainless steel, since all bright components reflect the heat. Not only are the side walls made from stainless steel, but also the entire kiln housing, including the frame! Additional rear ventilation optimises the best insulation characteristics. The icing on the cake is the stainless steel frame on top of the front-loader with integrated perforated sheet metal. You can put your damp items on here to dry before bisque firing them in the kiln.



- Optimum heat distribution thanks to 5-sided heating **~**
- ESP Energy Saving Package: High-quality and innovative multi-layer premium insulation, low energy consumption and fastest heating, even in the upper temperature range
- Adjustable door hinges
- Drying area with integrated perforated sheet metal on top of the kiln
- Stable SiC ceiling plate no contamination from above
- SiC bottom cover for the heating elements with a maximum of thermal conductivity
- 1 Hearth air inlet slide valve including drip tray
- Stainless steel housing and frame
- **~** Continuous mortar-free brick lining reduces cracking
- Extremely solid lightweight refractory brick ASTM 26 in regions with considerable mechanical stress
- Adjustable door lock
- Wide door opening angle for easy loading (approx. 150°)
- Bypass exhaust air nozzle on the right side, condensation-proof
- Pairs of legs with adjustable height (not with XR 1060)
- Customised products by request

#### **PROFESSIONAL-LINE model series XR**

Model	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Loading edge height [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
XR 100	103	410	500	500	700	910	1420-1780	690-1050	8.5	400 3N~	3x13 CEE16	1320	255
XR 150	149	430	560	620	720	970	1420-1660	570-810	11	400 3N~	3x16 CEE16	1320	270
XR 190	189	480	580	680	770	990	1480-1720	570-810	14	400 3N~	3x20 CEE32	1320	320
XR 230	235	480	720	680	770	1130	1480-1720	570-810	17	400 3N~	3x25 CEE32	1320	350
XR 310	317	550	720	800	840	1130	1600-1840	570-810	22	400 3N~	3x32 CEE32	1320	410
XR 380	381	610	780	800	900	1190	1600-1840	570-810	27	400 3N~	3x40 CEE63	1320	470
XR 520	524	660	810	980	950	1220	1660-1780	450-570	34	400 3N~	3x50 CEE63	1320	540
XR 680	687	730	960	980	1020	1370	1660-1780	450-570	43	400 3N~	3x63 CEE63	1320	640
XR 780	790	730	1040	1040	1020	1450	1720-1840	450-570	52	400 3N~	3x76	1320	710
XR 1060	1053	810	1040	1250	1100	1450	1810	340	65	400 3N~	3x95	1320	930





**Optionally available:** 



## Inspection hole (including bung) The inspection hole in the door makes it possible to observe the ware during the firing procedure.

## Transport castors (up to 1,000 kg)

Two of the four castors have a locking brake.



Loading rack

A loading rack makes optimum preparation of the ware outside the kiln possible, and easy loading of the kiln.

#### Other available options:

- Door hinge and exhaust left, controller right •
- Exhaust flap control (only with TC 505, 507, 705 or 707)
- Supply air flap control (only with TC 505, 507, 705 or 707) •
- 2-zone controller (only with TC 505, 507, 705 or 707) •
- 3-zone controller (only with TC 505, 507, 705 or 707) •
- Cooling fan, manual or automatic (only with TC 505, 507, 705 or 707)
- Different controllers available (see page 87) •

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All data subject to technical change without notice.

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# **MINITTEC**®

Heating elements in grooved bricks

- Maximum temperature 1,350 °C Bricks, heating elements and insulation designed for 1,350 °C • Semiconductor relay (noiseless)
- An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.
- Levelling feet for compensating for floor unevenness
- Flexible exhaust pipe

More information about the KITTEC PROFESSIONAL-LINE XR front-loader and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!



#### PROFESSIONAL-LINE XT electric front-loader, up to 1,320 °C

The KITTEC XT model series provides heating for the kiln on support bars. This has the advantage of allowing free radiation of the heating elements.

The XT front-loaders are heated with heating elements on silimantin support bars. The high-quality and complex processing with the support bars is the guarantee of a very long service life.

Of course, the 5-sided all-round heating with optimum temperature distribution also provides consistently uniform firing results in these kilns. Best results in harsh everyday use in handicraft and industry are guaranteed over the long term. Not only are the side walls made from stainless steel, but also the entire kiln housing, including the frame! Additional rear ventilation optimises the best insulation characteristics. The individually adjustable leg pairs are unique. You can choose how high you would like the loading edge of your kiln to be.



- Optimum heat distribution thanks to 5-sided heating
- ESP Energy Saving Package: High-quality and innovative V multi-layer premium insulation, low energy consumption and fastest heating, even in the upper temperature range
- Adjustable door hinges
- Drying area with integrated perforated sheet metal on top of the kiln
- Stable SiC ceiling plate no contamination from above ~
- SiC bottom cover for the heating elements with a maximum of thermal conductivity.
- V Hearth air inlet slide valve including drip tray
- ~ Stainless steel housing and frame
- Continuous mortar-free brick lining reduces cracking
- Extremely solid lightweight refractory brick ASTM 26 in regions with considerable mechanical stress
- Adjustable door lock 1
- Wide door opening angle for easy loading (approx. 150°)
- Bypass exhaust air nozzle on the right side, condensation-proof
- Pairs of legs with adjustable height (not with XT 1000)
- Customised products by request

#### **PROFESSIONAL-LINE** model series XT Overal height [mm] erall dep [mm] Outpu [kW] Currei [A] Mode oitag [V] width [°C] XT 80 720 1420-1780 3x12 CEE16 80 380 440 480 940 700-1060 8 400 3N~ 1320 XT 120 120 500 740 1420-1660 580-820 3x13 CEE16 1320 400 1000 9 400 3N~ XT 160 450 520 660 790 1020 3x16 CEE16 154 1480-1720 580-820 11 400 3N~ 1320 XT 200 196 450 660 660 790 1160 1480-1720 580-820 14 400 3N/ 3x20 CEE32 1320 XT 270 267 520 660 780 860 1160 1600-1840 580-820 18 400 3N~ 3x26 CEE32 1320 XT 330 325 580 720 780 920 1220 1600-1840 580-820 22 400 3N<sup>~</sup> 3x32 CEE32 1320 XT 450 453 630 750 960 970 1250 1660-1780 460-580 33 400 3N~ 3x48 CEE63 1320 XT 600 605 700 900 1040 1400 1660-1780 460-580 42 400 3N 3x61 CEE63 1320 XT 700 700 700 980 1020 1040 1480 1720-1840 460-580 50 400 3N~ 3x73 1320 XT 1000 1026 1240 1500 1860 470 65 3x95 1320 900 1000 1140 400 3N~





Stainless steel frame as a drying area

#### **Optionally available:**



## Inspection hole (including bung) The inspection hole in the door makes it possible to observe the ware during the firing procedure.

## Transport castors (up to 1,000 kg)

Two of the four castors have a locking brake.



#### Loading rack

A loading rack makes optimum preparation of the ware outside the kiln possible, and easy loading of the kiln.

#### Other available options:

- Door hinge and exhaust on the left, controller on the right •
- Exhaust flap control (only with TC 505, 507, 705 or 707) •
- Supply air flap control (only with TC 505, 507, 705 or 707) • •
- 2-zone controller (only with TC 505, 507, 705 or 707)
- 3-zone controller (only with TC 505, 507, 705 or 707) Cooling fan, manual or automatic
- (only with TC 505, 507, 705 or 707)
- Different controllers available (see page 87) •

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[kg]

240

290

350

380

450

500

580

700

750

950

||||





Heating elements on support bars

- Maximum temperature 1,350 °C or 1,400 °C Bricks, heating elements and insulation designed for 1,350 °C and 1,400 °C
- Semiconductor relay (noiseless) An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.
- Levelling feet for compensating for floor unevenness •
- Flexible exhaust pipe

More information about the KITTEC PROFESSIONAL-LINE XT front-loader and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!



#### PROFESSIONAL-LINE XG gas front-loader, up to 1,320 °C

#### Gas technology – simple and safe

The XG model series provides optimum temperature distribution thanks to the downdraught flame control. As well as being independent of electrical connections, the possibility of firing under a reduction atmosphere is a particularly strong argument in favour of using gas kilns. However, this reduction firing requires a certain amount of firing experience, since reduction firing is not easy to reproduce. Each item that is fired is slightly different - and therefore unique. The KITTEC gas kilns are equipped with burners for propane/butane as standard. However, we can also offer natural gas heating systems. One of the outstanding quality characteristics of the KITTEC gas kilns is the so-called downdraught flame control, which provides absolutely even temperature

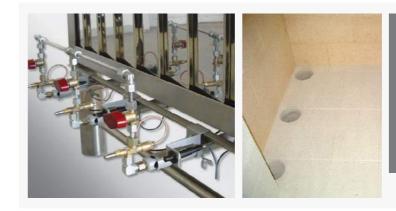




- Very well controllable high-performance burner for propane/butane (extremely quiet)
- "Downdraught flame control" for absolutely uniform temperature distribution
- ESP Energy Saving Package: High-quality and innovative multi-layer premium insulation, low energy consumption and fastest heating, even in the upper temperature range
- Manually controllable damper
- Stable SiC ceiling plate, no contamination from above 1
- Includes CO alarm
- Pressure regulator with manometer (including all fittings ~ between burner and gas supply), simple and safe gas technology in accordance with the DVGW
- Temperature indicator (battery-powered) 1
- ~ Continuous mortar-free brick lining reduces cracking
- Housing and frame made from rust-proof stainless steel
- Extremely solid lightweight refractory brick ASTM 26 in regions with considerable mechanical stress
- ⁄ Adjustable door lock
- Wide door opening angle for easy loading (approx. 150°)
- Stainless steel exhaust hood in the centre at the rear (with flue connection ø 150-200 mm)
- Thermocouple for temperature measurement, installed with protection
- Pairs of legs with adjustable height (not with XG 1000)
- Base with cross strut for easy transportation using a lift 1 truck
- Customised products by request

#### **PROFESSIONAL-LINE model series XG**

Model	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Loading edge height [mm]	Number of burners	Output [kW]	Max. temperature [°C]	Weight [kg]
XG 250	249	540	660	700	950	920	1460-1700	550-790	2	40	1320	470
XG 350	351	650	710	760	1060	970	1520-1760	550-790	3	45	1320	550
XG 500	499	600	840	990	1010	1190	1630-1750	430-550	4	60	1320	630
XG 770	774	680	1040	1095	1090	1390	1740-1860	430-550	4	70	1320	800
XG 1000	1002	880	1040	1095	1290	1390	1730	420	4	80	1320	1000



#### **Optionally available:**



Natural gas burner

An air compressor is needed to operate the natural gas burner.



#### Inspection hole (including bung)

The inspection hole in the door makes it possible to observe the ware during the firing procedure.



#### Loading rack

A loading rack makes optimum preparation of the ware outside the kiln possible, and easy loading of the kiln.

#### Other available options:

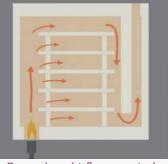
- 230 V mains adapter for temperature indicator •
- Oxygen probe for atmosphere measurement
- Levelling feet for compensating for floor unevenness
- 2-bottle adapter
- Left door hinge •



More information about the KITTEC PROFESSIONAL-LINE XG front-loader and suitable furniture sets, tools and additional equipment can be found directly at www.kittec.eu - simply scan in the QR code!

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- Propane or natural gas firing curve management incl. TC 66 controller, semi-automatic, makes individually adjustable automatic firing curves possible (but no automatic oxygen content control)
- Increased maximum temperature 1,350 °C or 1,400 °C Bricks and insulation designed for 1,350 °C and 1,400 °C



# **WKITTEC**<sup>®</sup>



# KITTEC INDUSTRIAL-LINE

The technology and equipment of our products are designed for years of reliable everyday use in workshop and industrial applications. We only use top quality materials and components from renowned manufacturers for our kilns in the industrial area.

Our high-quality and innovative multi-layer premium insulation provides lower energy consumption and the fastest heating, also in the upper temperature range. The energy utilisation is highly efficient for design reasons. Specially designed Kanthal heating elements make reliable firing curves possible with the maximum possible service life.

Assembly in the modern production facility is carried out with extreme precision by our specialists. We use temperature-resistant cables and ensure that all stainless steel components are annealed in an environmentally friendly way.

We only use non-carcinogenic insulating materials for our kilns in accordance with TRGS 905, class 1 or 2.

During final product inspection a test-engineer signs for the quality.



 High-quality stainless steel components

Extremely low outside temperatures thanks to multi-layer premium

insulation

Durable brick lining

Suitable for harshest industrial conditions





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- Adapting the electrical systems of our kilns to any voltage variants for our customers in countries or regions with a different power grid is not a problem.
- We also have a solution for customers to whom commercial electricity is only available at off-peak times but would like to program their controller during the day with an external power supply.
- Particularly in the industrial area, very special requirements often exist for a wide range of applications. These special requirements also require special kilns! KITTEC fulfils this task with professional customised products.
- Please speak to our industrial adviser! industrie@kittec.de



## INDUSTRIAL-LINE CTH bogie hearth furnaces, up to 1,320 °C

The KITTEC CTH models have heating on support bars. The high-quality and complex design with support bars is the guarantee of a long service life. The five-sided all-round heating provides consistently uniform firing results thanks to optimum temperature distribution. High quality lightweight refractory bricks and the multi-layer rear insulation allow an absolutely even temperature distribution and a maximum firing temperature of 1,000 or 1,320 °C.

Our added quality: All CTH bogie hearth furnaces are equipped with a 2-zone controller - the guarantee of optimum and uniform temperature distribution. The volume multiplied by 0.8 can be used as a guideline for the maximum loading weight. However, we can optionally provide higher loading capacities if required.



- Five-sided heating on support bars High-quality and innovative multi-layer premium insula-1 tion for the lowest energy consumption and the fastest heating up, even in the upper temperature range 2-zone controller, excellent temperature distribution Large exhaust flaps in the ceiling, can be opened manually ~ Bogie hearth optionally on guided rollers or on rails Industrial quality door hinges, adjustable Stable SiC ceiling plate, no contamination from above 1 SiC bottom cover for the heating elements with a maximum of thermal conductivity ~ Continuous mortar-free brick lining reduces cracking 1 Solid steel frame, powder-coated Stainless steel sheets on the sides, the door and the
  - lintel, rust-proof
  - Kanthal heating elements with low surface load
  - Extremely solid lightweight refractory brick ASTM 26 in regions with considerable mechanical stress
  - Stainless steel side panels with rear ventilation for low outside temperatures fulfil the industrial standards
  - 1 Door can be opened wide (> 180°)
  - 1 Customised products possible at any time



Model	Volume [I]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Height Loading edge [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
CTH 500 L	506	640	930	850	1110	1790	1800	660	27	400 3N~	3x40 CEE63	1000	750
CTH 860 L	863	690	1250	1000	1160	2110	1940	650	36	400 3N~	3x52 CEE63	1000	1050
CTH 1000 L	1000	800	1250	1000	1270	2110	1940	650	55	400 3N~	3x80	1000	1300
CTH 1500 L	1500	1000	1500	1000	1470	2360	1940	650	65	400 3N~	3x95	1000	1900
CTH 2000 L	2000	1000	2000	1000	1470	2860	1940	650	90	400 3N~	3x130	1000	2300
CTH 3000 L	3000	1250	2400	1000	1720	3260	1940	650	125	400 3N~	3x185	1000	3500
CTH 4000 L	4000	1250	3200	1000	1720	4060	1940	650	140	400 3N~	3x203	1000	4500
CTH 6000 L	6000	1250	4000	1200	1720	4860	2140	650	160	400 3N~	3x232	1000	6600
CTH 8000 L	8050	1250	4600	1400	1720	5460	2340	650	200	400 3N~	3x290	1000	8000
CTH 500	506	640	930	850	1190	1830	1800	660	36	400 3N~	3x52 CEE63	1320	850
CTH 860	863	690	1250	1000	1240	2150	1940	650	55	400 3N~	3x80	1320	1200
CTH 1000	1000	800	1250	1000	1350	2150	1940	650	65	400 3N~	3x95	1320	1500
CTH 1500	1500	1000	1500	1000	1550	2400	1940	650	90	400 3N~	3x130	1320	2200
CTH 2000	2000	1000	2000	1000	1550	2900	1940	650	125	400 3N~	3x181	1320	2700
CTH 3000	3000	1250	2400	1000	1800	3300	1940	650	140	400 3N~	3x203	1320	3900
CTH 4000	4000	1250	3200	1000	1800	4100	1940	640	160	400 3N~	3x232	1320	5100
CTH 6000	6000	1250	4000	1200	1800	4900	2140	640	200	400 3N~	3x290	1320	7300
CTH 8000	8050	1250	4600	1400	1800	5500	2340	640	240	400 3N~	3x348	1320	8800





#### **Optionally available:**



The supply air flaps at both sides are opened either manually or under automatic thermocomputer (TC) control.

Inspection hole (including bung) The inspection hole in the door makes it possible to observe the ware during the firing procedure.

#### Other available options:

- Doors and bogie hearths at at two sides, front and rear •
- **Electrical lifting door(s)** (safety laser scanner recommended) .
- Automatic exhaust flaps (controlled via TC) •
- **Fan cooling, manual or automatic** (controlled via TC) •
- Exhaust hood above the kiln •
- Parallel swing door •
- Door hinge on the left
- Additional bogie hearth •
- Electric bogie hearth drive, on rails (safety laser scanner recom-• mended)



More information about the INDUSTRIAL-LINE CTH bogie hearth furnace can be found directly at www.kittec.eu - simply scan in the QR code!

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- 3-zone controller .
- **APM heating elements** .
- Bogie hearth charging for higher loading weight
- Semiconductor relay (noiseless) An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.
- Temperature selection limiter (watchdog)
- Maximum temperature 1,350 °C or 1,400 °C • Bricks, heating elements and insulation designed for 1,350 or 1,400 °C
- **Different controllers available** (see page 87)



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## INDUSTRIAL-LINE XRS/XTS electric front-loaders, up to 1,320 °C

The KITTEC front-loaders with drawer mechanism from the XRS and XTS model series allow the kiln bottom to be comfortably and easily pulled out for loading. The mechanism makes it significantly easier to load these front-loader kilns. This leads to a more ergonomic, primarily back-friendly, and time-saving kiln loading.

You can conveniently load the kiln from three sides. The pull-out kiln bottom is ball-bearing mounted, making it extremely stable and smooth in operation. In the retracted state, it is sealed by an insulating cord, preventing any draught from below.

The XRS models feature a 5-sided heating in grooved bricks. The XTS models provide the 5-sided heating on support bars.



- Optimum heat distribution thanks to 5-sided heating
- ESP Energy Saving Package: High-quality and innovative multi-layer premium insulation, low energy consumption
- and fastest heating, even in the upper temperature range Adjustable door hinges
- Drying area with integrated perforated sheet metal on top of the kiln
- 1 Stable SiC ceiling plate – no contamination from above SiC bottom cover for the heating elements with a maxi-
- mum of thermal conductivity
- Hearth air inlet slide valve including drip tray 1
- 1 Stainless steel housing and frame
- 1 Continuous mortar-free brick lining reduces cracking
- Extremely solid lightweight refractory brick ASTM 26 in regions with considerable mechanical stress
- Adjustable door lock
- **~** Wide door opening angle for easy loading (approx. 150°)
- Bypass exhaust air nozzle on the right side, condensation-proof
- Pairs of legs with adjustable height V
- Customised products by request





Stainless steel frame as a drying area

# **Optionally available:**

## Inspection hole (including bung)

The inspection hole in the door makes it possible to observe the ware during the firing procedure.

#### Other available options:

- Door hinge and exhaust on the left, controller on the right •
- Exhaust flap control (only with TC 505, 507, 705 or 707)
- Supply air flap control (only with TC 505, 507, 705 or 707)
- 2-zone controller (only with TC 505, 507, 705 or 707) •
- 3-zone controller (only with TC 505, 507, 705 or 707) Cooling fan, manual or automatic •
- (only with TC 505, 507, 705 or 707)
- Different controllers available (see page 87)

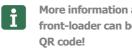
#### **INDUSTRIAL-LINE XRS model series**

Model	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
XRS 100	103	410	500	500	700	1160	1520-1880	8.5	400 3N~	3x13 CEE16	1320	330
XRS 150	149	430	560	620	720	1220	1520-1760	11	400 3N~	3x16 CEE16	1320	350
XRS 190	189	480	580	680	770	1240	1580-1820	14	400 3N~	3x20 CEE32	1320	420
XRS 230	235	480	720	680	770	1380	1580-1820	17	400 3N~	3x25 CEE32	1320	470
XRS 310	317	550	720	800	840	1380	1700-1940	22	400 3N~	3x32 CEE32	1320	540
XRS 380	381	610	780	800	900	1440	1700-1940	27	400 3N~	3x40 CEE63	1320	620
XRS 520	524	660	810	980	950	1570	1760-1880	34	400 3N~	3x50 CEE63	1320	700
XRS 680	687	730	960	980	1020	1720	1760-1880	43	400 3N~	3x63 CEE63	1320	880
XRS 780	790	730	1040	1040	1020	1800	1820-1940	52	400 3N~	3x76	1320	1000
XRS 1060	1053	810	1040	1250	1100	1800	2100	65	400 3N~	3x95	1320	1320

All data subject to technical change without notice.

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INDUST	RIAL-LI	NE XTS r	nodel se	ries							"	
Model	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
XTS 80	80	380	440	480	720	1190	1520-1880	8	400 3N~	3x12 CEE16	1320	320
XTS 120	120	400	500	600	740	1250	1520-1760	9	400 3N~	3x13 CEE16	1320	380
XTS 160	154	450	520	660	790	1270	1580-1820	11	400 3N~	3x16 CEE16	1320	450
XTS 200	196	450	660	660	790	1410	1580-1820	14	400 3N~	3x20 CEE32	1320	500
XTS 270	267	520	660	780	860	1410	1700-1940	18	400 3N~	3x26 CEE32	1320	580
XTS 330	325	580	720	780	920	1470	1700-1940	22	400 3N~	3x32 CEE32	1320	650
XTS 450	453	630	750	960	970	1500	1760-1880	33	400 3N~	3x48 CEE63	1320	750
XTS 600	605	700	900	960	1040	1750	1760-1880	42	400 3N~	3x61 CEE63	1320	940
XTS 700	700	700	980	1020	1040	1830	1820-1940	50	400 3N~	3x73	1320	1050
XTS 1000	1026	900	1000	1140	1240	1850	2100	65	400 3N~	3x95	1320	1380



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Heating elements in grooved bricks (XRS)

Heating elements on support bars (XTS)

- Maximum temperature 1,350 °C or 1,400 °C
- Bricks, heating elements and insulation designed for 1,350 or 1,400 °C Semiconductor relay (noiseless) •
- An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.
- Flexible exhaust pipe

All data subject to technical change without notic

More information about the KITTEC INDUSTRIAL-LINE XRS/XTS front-loader can be found directly at www.kittec.eu - simply scan in the



## INDUSTRIAL-LINE CLL laboratory kilns model series, up to 1,400 °C

The heating coils of the CLL laboratory kilns are on support bars. The five-layer insulation structure is the guarantee of a low energy requirement. The 5-sided heating provides optimum temperature distribution, even in the upper temperature range. The low surface load of the Kanthal heating elements leads to less wear and tear and a long service life. The housing structure with all-round rear ventilation provides excellent corrosion protection. The use of stainless steel supports this protection to a considerable extent.

The SiC ceiling plate is an absolute innovation in kiln construction: No contamination of the ware by brick dust from the ceiling. The steel frame is extremely robust and has a stable door mounting. The covers of the electrical connections of the door heating elements are integrated in the steel structure of the door. The frame of the kiln is provided with hard-wearing industrial lacquer in powder coating. The side panels are made from stainless steel.



- Five-sided heating on support bars
- High-quality and innovative five-layer premium insulation for low energy consumption and fastest heating, even in
- the upper temperature range APM heating elements on Alsint support bars 1
  - (CLL-H only)
- Reduction-resistant lightweight refractory brick lining
- Hearth heating covered and protected by SiC plate
- ~ Central exhaust cowl at rear for exhaust pipe or hose
- Industrial quality door hinges, adjustable
- ✓ Door lintel made of V2A stainless steel, rustproof
- Continuous mortar-free brick lining reduces cracking
- Extremely solid lightweight refractory brick ASTM 26
- (CLL- H) or ASTM 28 (CLL-H) in regions with considerable mechanical stress
- Perforated sheet metal on the kiln to prevent moisture build-up
- Adjustable door lock
- **V** Door safety switch with positive break
- Stainless steel side panels with rear ventilation for low outside temperatures fulfil the industrial standards
- Easy and wide door opening (> 150°) 1
- Removable pair of legs for easier transport 1
- Customised products possible at any time

#### PROFESSIONAL-LINE CLL model series

PROFES	<b>STONA</b>	L-LINE (		iel serie	5								
Model	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Height Loading edge [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
CLL 15	16	250	250	250	640	870	1330	860	7	400 2N~	2x16 CEE16	1300	190
CLL 30	33	320	320	320	710	940	1400	860	8	400 3N~	3x12 CEE16	1300	260
CLL 60	64	400	400	400	790	1020	1500	880	11	400 3N~	3x16 CEE16	1300	340
CLL 120	125	500	500	500	890	1120	1600	880	15	400 3N~	3x22 CEE32	1300	390
CLL 180	180	600	600	500	990	1220	1600	880	20	400 3N~	3x29 CEE32	1300	490
CLL 15H	16	250	250	250	690	910	1330	820	8	400 3N~	3x12 CEE16	1400	250
CLL 30H	33	320	320	320	760	980	1400	820	10	400 3N~	3x15 CEE16	1400	330
CLL 60H	64	400	400	400	840	1060	1500	840	12	400 3N~	3x18 CEE32	1400	380
CLL 120H	125	500	500	500	940	1160	1600	840	18	400 3N~	3x26 CEE32	1400	480
CLL 180H	180	600	600	500	1040	1260	1600	840	22	400 3N~	3x32 CEE32	1400	590



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#### **Optionally available:**

## Inspection hole (including bung)

The inspection hole in the door makes it possible to observe the ware during the firing procedure.

#### Levelling feet



## Transport castors (up to 400 kg or 1,000 kg)

Two of the four castors have a locking brake.

#### Other available options:

- 2-zone or 3-zone controller .
- Door hinge on the left and controller on the right
- Parallel swing door and heat shield •
- Manual lifting door .
- 4 crane eyelets including frame reinforcement .
- Exhaust flap, manually operated
- **Hearth air inlet slide valve** (without drip tray) •
- Automatically controlled exhaust flap (via TC) •
- Automatically controlled supply air flap (via TC)



More information about the INDUSTRIAL-LINE CLL laboratory kiln can be found directly at www.kittec.eu - simply scan in the QR code!

# **MINITTEC**®

Door safety switch with positive break

- Manually or automatically controlled cooling fan (via TC) .
- Temperature selection limiter (watchdog)
- Semi gas tight version including protective gas connection •
- Semiconductor relay (noiseless) • An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.
- APM heating elements on Alsint support bars (standard on CLL-H models)
- **Different controllers available** (see page 87)



#### INDUSTRIAL-LINE CLM model series annealing and hardening kilns, up to 1,300 °C

The CLM model series is designed for annealing and hardening in normal or protective gas atmosphere operation. The heating elements of the CLM kilns are on support bars. The multi-layer insulation structure guarantees low energy consumption during annealing and hardening. The steel frame is extremely robust, and the housing design with rear ventilation provides excellent corrosion protection. The use of stainless steel supports this protection to a considerable extent. The low surface load of the Kanthal heating elements leads to less wear and tear and a long service life.



~	Kanthal heating elements on support bars in the base and at both sides
~	High-quality and innovative five-layer premium insulation for low energy consumption and fastest heating, even in the upper temperature range
/	Stable stainless steel structure
	Hearth heating covered and protected by SiC plate
/	Central exhaust cowl at rear for exhaust pipe or hose
	Heating element protection, 50 mm high at both sides
/	Continuous mortar-free brick lining reduces cracking
/	Stainless steel sheet as shelf space on top of the kiln door (up to CLM 90)
/	Lightweight refractory brick ASTM 26 in door frame reduces wear and tear
	Perforated sheet metal on the kiln to prevent moisture build-up
	Flexible door seal protects the brick lining
/	Kiln housing with rear ventilation protects from corrosion and lowers the outside temperature
/	Stainless steel side panels with rear ventilation for low outside temperatures fulfil the industrial standards
/	Quiet switching procedures thanks to electronic semicon- ductor relay (up to CLM 30)
/	Door safety switch with positive break
/	Heat shield as protection against heat radiation
/	Customised products possible at any time

#### **PROFESSIONAL-LINE CLM model series**

Model	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Height Loading edge [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]	
CLM 10	8	250	250	120	690	820	720	440	3.3	230 N~	15	1300	135	
CLM 20	18	250	350	200	690	920	750	390	6	400 2N~	2x15 CEE16	1300	160	
CLM 30	25	250	500	200	690	1070	750	390	9	400 3N~	3x13 CEE16	1300	200	
CLM 50	44	350	500	250	930	1400	1640	890	13	400 3N~	3x19 CEE32	1300	330	
CLM 70	66	350	750	250	930	1650	1810	890	20	400 3N~	3x29 CEE32	1300	380	
CLM 90	88	350	1000	250	930	1900	1970	890	22	400 3N~	3x32 CEE32	1300	410	
CLM 110	113	500	750	300	1230	2020	1910	900	22	400 3N~	3x32 CEE32	1300	800	
CLM 170	165	550	750	400	1280	2020	2110	900	30	400 3N~	3x44	1300	1150	
CLM 340	330	750	1100	400	1480	2270	2150	870	48	400 3N~	3x70	1300	1360	
CLM 670	650	1000	1300	500	1730	2600	2390	870	69	400 3N~	3x100	1300	1900	



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CLM 50 on special hardening bench

#### **Optionally available:**

#### Hardening box



Including lid. Also available with protective gas connection, optionally at front or rear. We also optionally provide a fork for removing the hardening box.

#### Atmos box

Including flap which can be swivelled upwards. Also available with protective gas connection, optionally at front or rear.

#### Other available options:

- 4 crane eyelets including frame reinforcement
- Manual exhaust flap •
- Exhaust or supply air flap, automatically controlled (via TC)
- Cooling fan, manually or automatically controlled (via TC) ۰
- 2-zone or 3-zone controller
- Temperature selection limiter (watchdog) •
- APM heating elements and/or Alsint support bars
- Inspection hole in door (including bung)
- Counterweights at side instead of rear for less depth space • requirement

#### **Additional Equipment:**

#### Hardening bench

The KITTEC hardening bench is available in different versions:

- Small hardening bench HS-S (oil and/or water basin optional)
- Large hardening bench HS-B (including oil and water basin)
- Bench dimensions without basin: Height 610 mm, depth 735 mm, width 750 (HS-S) or 1,300 mm (HS-B) .
- Basin volume approx. 55 I, including charging basket with dripping mechanism
- Optionally available: • Fan set for forced cooling (for HS-B only)
- Heating element for water and/or oil bath including thermostat (3 kW, 230 V)

More information about the INDUSTRIAL-LINE CLM annealing and İ hardening kiln can be found directly at www.kittec.eu - simply scan in the QR code!





- Higher side heating element protection (2/3 SiC instead of 1/3 Cordierite)
- Electro-pneumatic lifting door (with foot switch)
- Semi gas tight version including protective gas connection Semiconductor relay (noiseless) •
- An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing. Standard up to CLM 30, optional from CLM 50 to CLM 670. Maximum temperature 1,350 °C or 1,400 °C •
- Bricks, heating elements and insulation designed for 1,350 or 1,400 °C Different controllers available (see page 87)



#### INDUSTRIAL-LINE HCB/HSQ model series bell kilns, up to 1,320 °C

The KITTEC bell kilns in the HCB and HSQ model series have the major advantage of easy loading, not only in the ceramic and art area, but also the industrial area. The base plate is freely accessible, and the workpiece only has to be lifted a few centimetres.

This ergonomic advantage makes working considerably easier.

Our bell kilns are particularly suitable for very heavy or very high workpieces such as sculptures or large glass or metal parts.

The electric heating system of these kilns is in the bell. Once charging is complete, the kiln is closed by lowering the bell, and can then be heated. After firing or heat treatment, the bell is raised above the device and the workpieces can be removed in a simple and ergonomic way.





- 1 Firing chamber volume of about 200 to 500 litres
- Ideal for large vessels and individual items and series production
- Manual raising and lowering of the hood using a hand winch with pull cable
- Footprint of kiln round (HCB) or square (HSQ) ~
- 1 Powder-coated steel frame available in one of six colours.
- Continuous mortar-free brick lining reduces cracking
- Stainless steel fastening clamps, welded on rust-proof and easy moving
- V Gas pressure spring support for easy lid opening
- ~ Ergonomic charging
- 1 Customised products possible at any time

We developed this small front-loader in collaboration with a dental laboratory, and tested it thoroughly in daily continuous workshop operation. The main feature of this muffle kiln is the extremely fast heating time. The M4 reaches 1,000 °C within 45 minutes, and 1,100 °C after a further 15 minutes.

The high-quality insulation made from lightweight refractory bricks is very robust, and also makes high firing temperatures of up to 1,320 °C possible. Our laboratory kiln series is ideally suitable for many applications, not least because of the unbelievable price/performance ratio. It is designed for years of reliable use in workshop and industrial operation.



#### **Optionally available:**

- Lid heating kiln can be extended into a combination kiln for conven-• tional firing procedures and other applications (such as glass fusing)
- Inspection hole in the body (including bung) makes it possible to observe the ware during the firing procedure
- Hearth heating •
- Hearth air inlet slide valve (without drip tray), operated manually, makes it possible to optimise the firing procedure for special materials. Can also be used to speed up the cooling procedure.

#### **INDUSTRIAL-LINE HCB/HSQ model series**

Electronic semiconductor relay (silent)									
used instead of the electric contactor, and makes noiseless switching									
procedures possible durina firina.									

- 2-zone or 3-zone controller (only with TC 505, 507, 705 or 707)
- Maximum temperature 1,350 °C • Bricks, heating elements and insulation designed for 1,350 °C Different controllers available (see page 87)
- Exhaust on the left instead of on the right •
- /// L Weight [kg] Output [kW] Voltage [V] Current [A] Model height width [mm] depth [mm] HCB 200 3x19 CEE32 1320 round 194 590 710 900 1200 1800 13.4 400 3N~ 250 HCB 260 round 254 930 900 1200 400 3N~ 3x24 CEE32 1320 280 590 HCB 270 266 290 round 690 710 1000 1300 1800 17 400 3N~ 3x25 CEE32 1320 HCB 350 1000 325 round 348 690 930 1300 2020 400 3N~ 3x29 CEE32 1320 20 HCB 380 380 1390 round 590 --900 1200 2480 19 400 3N~ 3x28 CEE32 1320 340 HCB 520 round 520 690 1390 1000 1300 2480 400 3N~ 3x37 CEE63 1320 400 HSQ 230 square 223 560 560 710 870 1170 400 3No 3x22 CEE32 1320 270 HSQ 300 292 560 930 870 1170 3x26 CEE32 1320 300 square 3x32 CEE32 HSQ 440 1390 870 1170 22 400 3N/ 1320 360 436 560 560 2480 square All data subject to tech nical change without notice

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More information about the INDUSTRIAL-LINE HCB/HSQ bell kilns can be found directly at www.kittec.eu - simply scan in the QR code!





#### **Optionally available:**

• Stainless steel exhaust pipe (execution in accordance with your specifications)

#### INDUCTOTAL LINE M model cories

INDUSTRIAL-LINE M model series													
Model	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Loading edge height [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
M 4	4	180	190	114	420	430	450	220	1.2	230 N~	6	1320	28
M 10	10	240	250	170	480	490	505	220	2.4	230 N~	11	1320	40



More information about the INDUSTRIAL-LINE M muffle kiln can be found directly at www.kittec.eu - simply scan in the QR code!





#### INDUSTRIAL-LINE model series M muffle kilns, up to 1,320 °C

~	Heating elements protected in grooves for short heat-up times.
~	Multi-layer insulation for low energy consumption
~	High-quality insulation made from lightweight refractory bricks, without ceramic fibres
~	Practical folding door (90° opening), can be used as a shelf
~	Stainless steel components, rust-proof, low outside temperature
~	Continuous mortar-free brick lining reduces cracking
~	Thermocouple installed so that it is protected from breaking
1	Tested door safety switch with positive break
~	Controller directly at the kiln with high-quality industrial plug-in connection
~	Safety contactor in accordance with VDE + electronic semiconductor relay (noiseless switching)
1	Central exhaust cowl in the rear wall

- **Different controllers available** (see page 87) •
- Flexible exhaust pipe

All data subject to technical change without notice



#### INDUSTRIAL-LINE model series CLU circulating-air chamber kilns, up to 850 °C

The KITTEC CLU kilns have a frame made from powder-coated sheet steel and an interior made from stainless steel. They are perfectly designed for stress relief annealing, tempering, precipitation and keeping warm.



#### Short heat-up times Temperature distribution within the usable space ± 5 °C 1 (with soaking times of > 30 minutes), based on DIN17052 High-quality and energy saving insulation using mineral 1 fibre boards 1 Horizontal air circulation Powder-coated steel frame Stainless steel interior Stainless steel side panels with rear ventilation for low outside temperatures fulfil the industrial standards Heating system with long service life ⁄

- Industrial quality door hinge system, adjustable
- CLU 15 comes as a table-top model, all others with 1 removable pair of legs for easier transport



#### CLU 15 table-top model

#### **PROFESSIONAL-LINE CLU model series**

				501105								
Model	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
CLU 15-45	15	300	350	150	500	900	440	2.4	230 N~	11	450	50
CLU 40-45	36	300	400	300	540	1050	1270	3	230 N~	13	450	115
CLU 70-45	70	350	500	400	590	1150	1370	4	400 3N~	3x6 CEE16	450	130
CLU 140-45	135	450	600	500	690	1250	1470	5.5	400 3N~	3x8 CEE16	450	205
CLU 270-45	270	600	750	600	840	1450	1620	9.5	400 3N~	3x14 CEE16	450	370
CLU 540-45	540	750	900	800	990	1600	1820	13.5	400 3N~	3x20 CEE32	450	540
CLU 800-45	800	800	1250	1200	1245	1845	1800	24	400 3N~	3x35 CEE63	450	850
CLU 15-65	15	300	350	150	500	900	440	2.4	230 N~	11	650	50
CLU 40-65	36	300	400	300	540	1050	1270	4	400 3N~	3x6 CEE16	650	125
CLU 70-65	70	350	500	400	590	1150	1370	8	400 3N~	3x12 CEE16	650	140
CLU 140-65	135	450	600	500	690	1250	1470	12	400 3N~	3x18 CEE32	650	220
CLU 270-65	270	600	750	600	840	1450	1620	16	400 3N~	3x24 CEE32	650	390
CLU 540-65	540	750	900	800	990	1600	1820	24	400 3N~	3x35 CEE63	650	560
CLU 800-65	800	800	1250	800	1665	2100	1855	35	400 3N~	3x51 CEE63	650	895
CLU 15-75	15	300	350	150	500	900	440	3	230 N~	13	750	50
CLU 40-75	36	300	400	300	660	1030	1350	5.2	400 3N~	3x8 CEE16	750	135
CLU 70-75	70	350	500	400	710	1130	1420	7.4	400 3N~	3x11 CEE16	750	150
CLU 140-75	135	450	600	500	810	1270	1515	14	400 3N~	3x20 CEE32	750	240
CLU 270-75	270	600	750	600	940	1500	1670	21	400 3N~	3x31 CEE32	750	415
CLU 540-75	540	750	900	800	1090	1660	1810	28	400 3N~	3x41 CEE63	750	580
CLU 800-75	800	800	1250	800	1290	2225	2055	40	400 3N~	3x58 CEE63	750	1105
CLU 15-85	15	300	350	150	500	900	440	3	230 N~	13	850	50
CLU 40-85	36	300	400	300	850	1360	1470	6	400 3N~	3x10 CEE16	850	290
CLU 70-85	70	350	500	400	900	1460	1570	10	400 3N~	3x15 CEE16	850	360
CLU 140-85	135	450	600	500	1000	1560	1670	14	400 3N~	3x20 CEE32	850	580
CLU 270-85	270	600	750	600	1150	1710	1770	20	400 3N~	3x29 CEE32	850	770
CLU 540-85	540	750	900	800	1300	1860	1970	30	400 3N~	3x44 CEE63	850	920
CLU 800-85	800	800	1250	800	1380	2260	2125	40	400 3N~	3x58 CEE63	850	1340

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#### **Optionally available:**

#### **Different controllers available**



available controllers/thermocomputers can be found on page 87.

#### Other available options:

- PC connection including WinControl professional software
- Protective gas connection



in the QR code!





More information about the INDUSTRIAL-LINE CLU circulating-air chamber kilns can be found directly at www.kittec.eu - simply scan



High-quality controllers make it possible to adapt temperature curves or include soaking times. Even a firing progress documentation can be transmitted to your PC (using a USB stick or a Bluetooth connection). More information about all of the

Semiconductor relay (noiseless) • An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.

#### INDUSTRIAL-LINE model series KTQ sintering kilns, up to 1,800 °C

The KTQ model series developed for you is the result of decades of experience in industrial kiln construction. Our atmospheric sintering kiln for demanding thermal processes combines well-tried technology and innovative components. With chamber volumes of 5 I to 120 I, the KTQ model series covers the individual requirements of sintering kilns for your demanding thermal processes up to 1,800 °C.

By customer request, the system can be equipped with automatic exhaust flap control, which is freely programmable by the operator within the temperature range of < 800 °C. Programming and process gas control take place using the well-tried, self-developed input system via an HMI or an industrial controller. Furthermore, an air supply system with and without air preheating, a process gas regulator or fibre-free insulation is optionally available.

The heating elements made from molybdenum disilicide or SiC with the optimised arrangement are the guarantee of uniform chamber temperatures and gas emission-free sintering. All heating elements are connected in parallel, meaning that in the event of an element break, only the affected one fails and the remaining ones continue to operate. Their symmetrical wiring and ease of access make quick replacement easier.



#### Two-sided heating SiC or molybdenum disilicide-heated kiln chamber 1 Heating elements with optimised arrangement Very fast ramp rate and fast cooling Fail-safe sintering process by means of parallel connec-1 tion Compact TC 707 program controller for firing curves with up to 99 segments and program storage locations. **V** Solid brick base Universal loading options 1 Stable frame with 4 crane eyelets (not with KTQ 5) ~

KTQ 5 models are constructed as table-top models

PROFESSI												
Model	Volume [l]	Firing chamber width [mm]	Firing chamber depth [mm]	Firing chamber height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Output [kW]	Voltage [V]	Current [A]	Max. temperature [°C]	Weight [kg]
KTQ 5 - 1450	5	160	160	200	750	530	700	By request	400 3N~	By request	1450	200
KTQ 10 - 1450	10	200	250	200	750	600	700	By request	400 3N~	By request	1450	220
KTQ 20 - 1450	20	280	280	260	1170	650	760	By request	400 3N~	By request	1450	280
KTQ 40 - 1450	40	300	400	360	680	930	1750	By request	400 3N~	By request	1450	370
KTQ 60 - 1450	60	340	400	450	750	930	1900	By request	400 3N~	By request	1450	500
KTQ 80 - 1450	80	400	400	500	800	930	1900	By request	400 3N~	By request	1450	650
KTQ 120 - 1450	120	500	500	500	880	1080	1900	By request	400 3N~	By request	1450	750
KTQ 5 - 1600	5	160	160	200	750	530	700	By request	400 3N~	By request	1600	200
KTQ 10 - 1600	10	200	250	200	750	600	700	By request	400 3N~	By request	1600	220
KTQ 20 - 1600	20	280	280	260	1170	650	760	By request	400 3N~	By request	1600	280
KTQ 40 - 1600	40	300	400	360	680	930	1750	By request	400 3N~	By request	1600	370
KTQ 60 - 1600	60	340	400	450	750	930	1900	By request	400 3N~	By request	1600	500
KTQ 80 - 1600	80	400	400	500	800	930	1900	By request	400 3N~	By request	1600	650
KTQ 120 - 1600	120	500	500	500	880	1080	1900	By request	400 3N~	By request	1600	750
KTQ 5 - 1700	5	160	160	200	750	530	700	By request	400 3N~	By request	1700	200
KTQ 10 - 1700	10	200	250	200	750	600	700	By request	400 3N~	By request	1700	220
KTQ 20 - 1700	20	280	280	260	1170	650	760	By request	400 3N~	By request	1700	280
KTQ 40 - 1700	40	300	400	360	680	930	1750	By request	400 3N~	By request	1700	370
KTQ 60 - 1700	60	340	400	450	750	930	1900	By request	400 3N~	By request	1700	500
KTQ 80 - 1700	80	400	400	500	800	930	1900	By request	400 3N~	By request	1700	650
KTQ 120 - 1700	120	500	500	500	880	1080	1900	By request	400 3N~	By request	1700	750
KTQ 5 - 1800	5	160	160	200	750	530	700	By request	400 3N~	By request	1800	200
KTQ 10 - 1800	10	200	250	200	750	600	700	By request	400 3N~	By request	1800	220
KTQ 20 - 1800	20	280	280	260	1170	650	760	By request	400 3N~	By request	1800	280
KTQ 40 - 1800	40	300	400	360	680	930	1750	By request	400 3N~	By request	1800	370
KTQ 60 - 1800	60	340	400	450	750	930	1900	By request	400 3N~	By request	1800	500
KTQ 80 - 1800	80	400	400	500	800	930	1900	By request	400 3N~	By request	1800	650
KTQ 120 - 1800	120	500	500	500	880	1080	1900	By request	400 3N~	By request	1800	750

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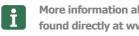
## 



- The KTQ model series consists of 7 kiln sizes, each with 4 selectable maximum temperatures: 1,450 °C, 1,600 °C, 1,700 °C or 1,800 °C.
- By request, both intermediate sizes and also op-• tional components which improve your particular process can be realised.

#### **Available options:**

- Selectable maximum temperature •
- Fibre-free insulation •
- PLC control with touch-panel •
- Colour touch-screen with multilingual menu
- Active air injection (heated or non-heated)



KTO 5 table-top model

## 



• If you have any special requirements, we would be pleased to conduct a feasibility check and will provide you with an individual quote.

- Automatic exhaust flap control
- Program-controlled process gas supply •
- KTQ 5 as a floor-mounted appliance •
- Protective gas connection

More information about the INDUSTRIAL-LINE KTQ sintering kiln can be found directly at www.kittec.eu - simply scan in the QR code!



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#### INDUSTRIAL-LINE model series XA melting kilns, up to 850 °C

The stainless steel KITTEC melting kilns in the XA model series are particularly designed for the so-called wax melting procedure, a forming procedure for casting metal and glass.

The models used to be made of wax, but nowadays more and more of them are made from plastic. The models are encased, which creates a cavity mould around the model. The original model now has to be "melted out" so that the residue-free cavity mould remains.

KITTEC melting kilns provide the suitable conditions for numerous mould materials: Clays, prepared loams, guartz-sand mixtures or zirconium or olivine sand with synthetic binding materials.

The entire firing procedure is controlled by a digital controller. This leaves you with plenty of scope with regard to choice of time and temperature, but also has reliable fixed programmes. The microprocessor control with the digitally storable firing curves and the exact temperature measurement with the platinum rhodium thermocouple allows you to determine the firings yourself and repeat them exactly at any time. The controller that is the most appropriate for your application depends on the firing curve you require.



Long-lasting Kanthal heating elements

ESP Energy Saving Package: High-quality and innovative multi-layer premium insulation for low energy consump-

- tion Tight-closing swinging lid system by means of unique pendulum mounting
- Stainless steel grate with outlet pipe through the base of the kiln
- 1 Stainless steel frame, rust-proof
- **~** Continuous mortar-free brick lining reduces cracking
- Lightweight refractory brick ASTM 26 at the upper body edge, which is subjected to the most stress
- Lid lock with lockable eyelet
- Extra-large exhaust air opening at side with bypass exhaust air system
- Gas pressure spring support for easy lid opening ~
- Large lid opening angle the opening allows access to the complete firing chamber diameter
- Practical, decentralised X-handle (side)
- Stainless steel guard bracket in front of the loading edge
- Stainless steel mount for controller on side of kiln
- Transport castors on the rear axle
- Customised products possible at any time



#### **Optionally available:**



#### Flexible exhaust pipe

#### **Different controllers available**



High-quality controllers make it possible to adapt temperature curves or include soaking times. Even a firing progress documentation can be transmitted to your PC (using a USB stick or a Bluetooth connection). More information about all of the available controllers/thermocomputers can be found on page 87.

#### Drip tray with lid

By request, you will receive the drip tray with heating, including thermostat.

#### Other available options:

- Cylindrical stainless steel retort with milling in the lid and heating element protection
- Lid handle and controller on the right, exhaust on the left
- Heating for outlet pipe stainless steel grate • (including on/off toggle switch)



More information about the INDUSTRIAL-LINE XA sintering kiln can be found directly at www.kittec.eu - simply scan in the QR code!

#### //// **PROFESSIONAL-LINE XA model series** Output [kW] Curren [A] Voltage [V] Weight [kg] Mode without frame width [mm] depth [mm] height [mm] [mm] XA 70 S round 79 430 555 700 700 1060 5.6 400 2N~ 2x12 CEE16 850 110 780 XA 190 S round 194 590 710 860 1130 11 400 3No 3x16 CEE16 850 170 XA 260 S round 266 690 710 980 980 1080 1130 16 400 3N~ 3x24 CEE32 850 210 850 XA 380 S round 378 690 1010 980 1080 1380 18 400 3N~ 3x26 CEE32 250

All data subject to technical change without notice

## **MINITTEC**®

• 2-zone or 3-zone controller



<sup>•</sup> Semiconductor relay (noiseless) An electronic semiconductor relay is used instead of the electric contactor, and makes noiseless switching procedures possible during firing.



## **DEVICES & EQUIPMENT DIY MATERIALS & KILN ACCESSORIES**

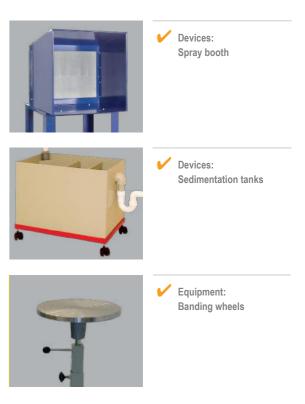
We can provide you with a comprehensive range of accessories and DIY materials for your project with our kilns! Here you will find everything that extends your facilities, from slab rollers, clay presses, banding wheels etc. to controllers and furniture sets for the kiln of your choice.





Kiln accessories: Furniture sets









**V** Kiln accessories: Controllers (Thermocomputers)

#### **KITTEC devices: Slab rollers**

#### The robust professional devices.

All KITTEC slab rollers are designed for years of reliable use in workshop and industrial operation. You can achieve the best results in just a few steps. KITTEC provides you with both free-standing models and table-top models.

#### RM1 and RM2 slab rollers

With the RM1 and RM2 slab rollers, the drive engages smoothly and without jerking when the force is transmitted via the rack and pinion. Via a single adjusting wheel in the centre the height can be set conveniently, continuously variable and precisely, using the measuring scale to achieve the best results.

The KITTEC RM slab rollers can be used both free-standing and also as a table-top model.

The KITTEC RM2 slab roller has cloth rails with cloths at both sides. Ideal if you regularly work with 2 different types of clay.



- Continuously variable height adjustment using a central 1 spindle, operated conveniently and centrally. Precision measuring scale for setting with millimetre
- accuracy. 8-way rolling device control with high-quality, encapsu-
- 1 lated ball bearings - exact control of the carriage with no jamming
- Large handwheel with maximum grip for easy operation no slipping, you have the clay under control.
- Rolling device with rack and pinion propulsion, precise control - robust, durable and exact
- Galvanised roller with large diameter minimal amount of 1 force during rolling procedure.
- Table top made from moisture-resistant Multiplex always the best, absolutely flat slabs
- Robust linen cloth, easy to change and well secured
- Solid table frame with removable feet can also be used as table-top model
- Optional: Levelling feet for compensating for floor unevenness





#### CreaP table top slab roller

RS table slab roller

Larger slabs can also be made by using two linen cloths.

The CreaP table-top slab roller is used to roll clay into evenly thick or thin slabs. In order to do this, the table-top slab roller is placed onto a non-slip table or the work surface in the pottery studio. The roller presses onto the clay with up to eight weights, and can gently roll over the table by means of two ball bearings. The weight of the slabs alone rolls the clay, meaning that this slab roller is also very suitable for persons with handicaps. The height adjustment sets the required slab thickness. The length of the slab of clay depends on the length of your table top. The CreaP can be swivelled up after use to save space.





#### **KITTEC slab rollers**

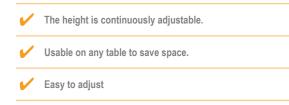
Model	Length [mm]	Width [mm]	Height [mm]	Effective area length [mm]	Effective area width [mm]	Effective area height [mm]	Weight [kg]
RM1	1160	850	1300	800	675	0-90	90
RM2	1160	850	1300	800	675	0-90	90
RS	590 (770)	900	330	900	500	0-60	26
CreaP	790	530	Individual	300	500	1.5-25	35

All data subject to technical change without



Developed for use in environments with a limited amount of space such as schools or pottery courses, the KITTEC RS table top slab roller with its quality and durability is also a valuable tool for professional potters and ceramic workshops. Thanks to its extra large working dimensions, which has not always been the case in this product area, the KITTEC RS is suitable for many purposes. Once the work is done, it is quickly and easily dismantled and put away, therefore saving space. The well-tried mechanism of the KITTEC RS table slab roller makes it easy to form clay into perfect slabs. Two galvanised cylinders running in opposite directions roll the clay into slabs with equivalent characteristics. The thickness of the slab can be adapted by turning a single, centrally installed adjusting crank. The integrated, millimetre accuracy scale is the guarantee of exact and reproducible slab thicknesses.

The large working area of the KITTEC RS also makes it easy to roll large slabs. The slab size is not limited by the dimensions of the work area when doing this.



More information about the KITTEC slab rollers can be found directly at www.kittec.eu - simply scan in the QR code!



#### KITTEC devices: SB1 spray booth

The KITTEC SB1 spray booth provides a dust-free working environment when spraying on glazes or ceramic inks. The booths have a working area which is closed all round and only open at the front. Inside the booth, a suction fan generates negative pressure so that fine glaze/ink particles cannot escape from the spray booth.

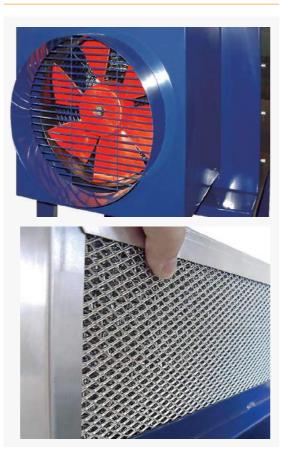
The KITTEC SB1 spray booth is ideal for small workshops, and is designed as a circulating air model. The air that is drawn in is discharged into the room after being cleaned by filtering. The robust and durable metal filter has several offset filter inserts. The cleaned air is led back into the workshop at the rear. To clean the galvanised metal filter, simply remove it from its guide and clean it under running water.

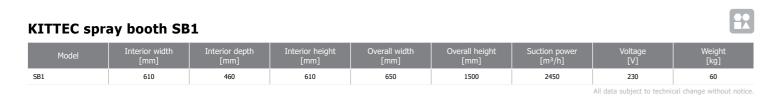
The KITTEC SB1 spray booth can be placed on a table or the provided base can be used. It is made from solid steel and is supplied ready for use. A banding wheel for putting down and moving workpieces inside the KITTEC SB1 spray booth can be optionally ordered.



Powerful suction fan

Galvanised metal filter, easy to clean





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More information about the KITTEC spray booth can be found directly at www.kittec.eu - simply scan in the QR code!

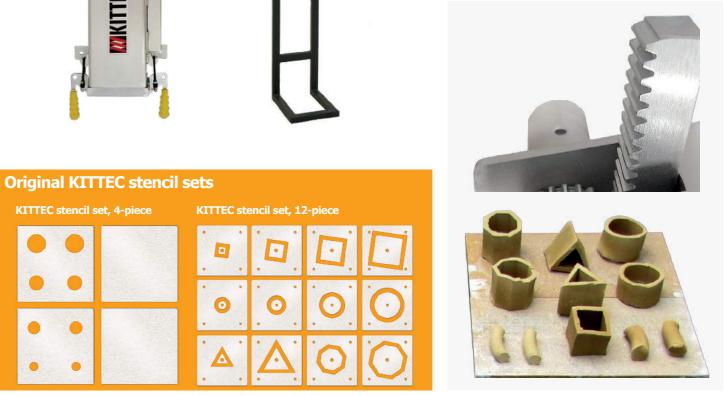


#### **KITTEC devices: TP clay press**

The KITTEC TP clay press is based on a simple but very well thought-out method with which potters can create clay strips for their creations. The container for the clay can be filled with an entire 12.5 kg slab of clay. By means of a downwards movement of the ratchet lever, the clay is pressed through an individually selectable stencil on the underside of the container. Hollow round, rectangular or octagonal strands of clay are produced depending on the design of the stencil.

The KITTEC TP clay press is fully galvanised, and can be fitted to stable concrete, wooden or masonry walls. However, we can optionally provide a special frame which merely requires attaching to the floor.





KITTEC TP cl	ay press						
Model	Cylinder width [mm]	Cylinder depth [mm]	Cylinder height [mm]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Weight [kg]
ТР	140	140	400	260	210	860	20

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Developed in collaboration with the specialist trade
Wide range of clay strips for individual creations.
Extra-large cylinder for an entire slab of clay
Excellent force transmission: Rack and pinion
Little force required thanks to quality ratchet
Including set of 4 stencils (basic equipment)
Quick release connection for fast stencil changes
Optional: Convenient ratchet with extendible lever
Optional: 12-Piece stencil set made from stainless steel
Optional: Steel frame for firm footing

All data subject to technical change

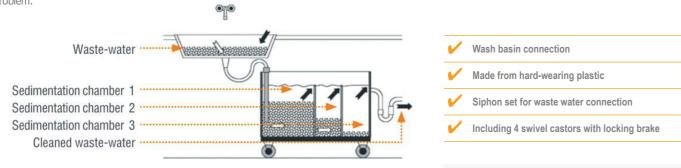
More information about the KITTEC clay press can be found directly at www.kittec.eu - simply scan in the QR code!



#### **KITTEC devices: AB sedimentation tank**

The sedimentation tank, which is also known as a glaze and clay separator, is used to keep glazes, clays and engobe residue out of the sewer system.

The sedimentation tank is fitted beneath the wash basin. The separable substances in the waste water settle on the bottom of the basin via the simple but highly effective three-chamber system. This prevents pipe blockages and protects the environment, and adherences to the waste water regulations is no longer a problem.



#### **Optionally available:**

- Cover for the sedimentation tank
- Alternative basin height: 10 cm lower •
- Special sizes by request



KITTEC AB	sedimentati	ion tank						
Model	Length [mm]	Width [mm]	Height including rollers [mm]	Chambers	Inflow and outflow Ø [mm]	Height of inflow [mm]	Height of outflow [mm]	Weight [kg]
AB	610	410	530	3	40	630	370 ± 10	10
							All data subject to technic	cal change without notice.

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More information about the KITTEC sedimentation tank can be found directly at www.kittec.eu - simply scan in the QR code!



#### **KITTEC equipment: Clay container TB**

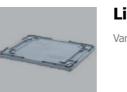
Clay that has been stored correctly remains malleable for longer The clay container consists of hard-wearing plastic with a smooth inner wall and recessed handles. A suitable trolley is optionally available for each type of clay container. The almost hermetically sealed lid makes proper storage of the clay possible.





Clay container TB 100 / TB 200

#### **Optionally available:**



#### Lid for clay container

Varies depending on the type



## Trolley for clay container

Varies depending on the type

#### **KITTEC clay container TB**

ТВ ТҮРЕ	Interior width [mm]	Interior depth [mm]	Interior height [mm]	Volume [l]	Overall width [mm]	Overall depth [mm]	Overall height [mm]	Total height including lid [mm]	Total height including lid and rollers [mm]	Material	Colour	Weight [kg]
TB 100	570	370	415	88	600	400	420	440	520	PP	grey	5
TB 200	770	570	405	178	800	600	420	440	520	PP	grey	8
TB 760	1110	710	610	535	1200	800	790	830	940	PP	grey	37



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Clay container TB 760

All data subject to technical

More information about the KITTEC slab containers can be found directly at www.kittec.eu - simply scan in the QR code!



#### **KITTEC equipment: Banding wheels**

The KITTEC banding wheels are the ideal helpers for painting and shaping ceramics. Thanks to their precision mounting, they impress with a long, quiet and even run. The centring grooves allow the objects to be aligned exactly, making it possible for you to work precisely. We have the right model for any application with our different versions.

#### KITTEC kiln accessories: Controllers (thermocomputers)

#### Versatile control – the thermocomputer

Top quality, extremely user-friendly controllers for your KITTEC kilns. Depending on the model, they provide individually adjustable firing curves (lead time, controlled heat-up in stages to an adjustable final temperature, soaking time, controlled cooling) for a wide range of firing processes, e.g. in ceramic, glass and steel processing and in many heat treatment applications. All of the controllers have reliability and a thermal cut-off safety switch as overburning protection.



#### KITTEC banding wheels

Model	Туре	Diameter [mm]	Height [mm]	Material	Weight [kg]
RSL 220 N	Banding wheel	220	48	Steel, lacquered	3.2
RSL 220 H	Banding wheel	220	123	Steel, lacquered	3.3
RSV 220 H	Banding wheel	220	123	Steel, galvanised	3.3
RSG 260 N	Banding wheel	260	58	Cast iron	5.2
RSG 260 H	Banding wheel	260	130	Cast iron	5.9
RAB 220 N	Banding wheel	220	48	Aluminium	1.3
RAB 220 H	Banding wheel	220	123	Aluminium	1.5
RAB 300 N	Banding wheel	300	58	Aluminium	2.5
RAB 300 H	Banding wheel	300	150	Aluminium	3
RSG 220 ST	Pedestal banding wheel	220	780-1225	Cast iron	7.5
RAB 260 ST	Pedestal banding wheel	260	780-1225	Aluminium	8.5

All data subject to technical change without notice.

More information about the KITTEC banding wheels can be found directly at www.kittec.eu - simply scan in the QR code!



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#### **Thermocomputer TC44**

High-quality, extremely user-friendly control system with an adjustable firing curve: Heating to 580 °C (fixed) in 7 selectable stages, then heating to an adjustable final temperature at maximum speed. Then a soaking time which can be selected in stages. Then end of program with (non-controlled) cooling.

#### **Thermocomputer TC88e**

Powerful control system from the compact class which has been specially designed for complex firing curves (e.g. glass processing). The firing curve consists of up to 30 segments. This results in just as many heating, holding and cooling processes. The exact time can be programmed in each ramp. A lead time can also be entered. Up to 30 firing curves can be stored as a program.

#### **Thermocomputer TC505**

The firing curve of the TC505 consists of a lead time, two adjustable heating and soaking times and a (controlled) cooling phase. All values are freely adjustable. Six of the programs are fixed, and 23 others can be individually stored. The controller also has a locking button and a power consumption indicator.

The new TC70x controllers are introducing a new operating and display concept. A high-contrast LC display which is tailored to the application shows all of the essential process values at a glance. A deviating process value changes from green to red.

#### Thermocomputer TC705

The temperature profile of the TC705 consists of 4 segments (ramp and soaking time, shown graphically on the display) and is therefore typical for ceramic applications and heat treatment. This means extremely easy handling during programming and a display while the process is running. Up to 99 programs can be stored. The integrated firing progress documentation can be transferred to your PC using a USB stick. The USB stick can also be used for locking.







#### **Thermocomputer TC66**

All values of the typical ceramic firing curve (lead time, controlled heating in two segments to an adjustable final temperature, soaking time, controlled cooling) can be set as required. You can adapt and save six programs in accordance with your requirements.



#### **Thermocomputer TC507**

Like the TC505, but with a completely variable firing curve shape. Up to 99 segments can be freely entered, therefore any number of heating, holding and cooling processes. Simultaneous entry of the ramps in °C/h or time. Possibility of manual intervention in the program. Several EVENTs etc. Up to 99 programs can be stored. The TC507 is the successor to the TC405/30 and therefore becomes the standard in thermal glass processing, for example.



#### **Thermocomputer TC707**

Designing the firing curve is completely flexible with the TC707, and up to 99 programs can be stored. The integrated firing progress documentation can be transferred to your PC using a USB stick (can also be used for locking). Includes a Bluetooth connection to the WebBox Smartphone app or the WinControl software, with which the program can be started (e.g. kiln ready for operation on Monday at 7 o'clock at start of shift) or terminated in real time.

## *W***KITTEC**<sup>®</sup>

#### KITTEC kiln accessories: Furniture sets

#### Wide selection for perfect firing

With KITTEC furniture sets made from high-quality, heat-resistant shelves with different shapes and sizes and suitable props, you can distribute your ware on several levels and fire several individual items at the same time. The furniture sets withstand extreme temperatures without problems.



Furniture set	Number of shelves	Shelf dimensions [mm]	Number of props 50 mm	Number of props 100 mm	Number of props 150 mm	Number of props 200 mm	Ceramic stilt set	Batt wash 1 kg	Cordierite blocks for bottom layer	Total weight [kg]
0	2	ø 260	6	3			1	1	3	3
А	3	ø 350	6	6			1	1	3	7
В	4	ø 380	9	6	3		1	1	3	11
С	4	ø 470	6	6	3		1	1	3	21
D	4	ø 520	9	6	3		1	1	3	31
E	4	ø 585	9	6	3		1	1	3	40
CB 220 S	4	2x1/2 ø520 +500x220	18	12	6		1	1	6	47
CB 330 S	5	2x1/2 ø520 +500x330	18	18	6		1	1	6	68
CB 380 S	5	2x1/2 ø520 +500x400	18	18	6		1	1	6	74
CB 460 S	6	2x1/2 ø585 +500x350	18	18	12		1	1	6	98
CB 520 S	6	2x 500x600	12	12	12		1	1	8	108
SQ 11	2	180 x 180	6	3			1	1	4	3
SQ 50	3	340 x 330	6	6			1	1	4	10
SQ 70	4	340 x 330	9	9			1	1	4	14
SQ 90	4	400 x 400	9	9			1	1	4	19
SQ 140	5	400 x 400	9	9	3		1	1	4	24
SQ 150	4	500 x 500	9	9			1	1	4	35
SQ 220	5	500 x 500	9	9	3		1	1	4	44
SQ 165	8	400 x 350	12	12	8		1	1	8	34
SQ 235	8	490 x 350	20	12	8		1	1	8	46
SQ 350	10	500 x 400	20	12	8	8	1	1	8	63
SQ 390	12	500 x 400	20	12	12	8	1	1	8	75
CBN 15	2	240 x 190	6	3			1	1	4	4
CBN 33	2	300 x 290	6	3			1	1	4	6
CBN 50	3	340 x 310	6	6			1	1	4	10
CBN 70	3	350 x 340	6	6	3		1	1	4	11
CBN 100	4	400 x 350	9	6	3		1	1		17
CBN 140	4	470 x 400	9	6	3		1	1		23
CBN 200	4	500 x 460	9	6	6		1	1		33
CBN 280	5	570 x 500	9	3	6	3	1	1		56
CBN 330	5	600 x 500	9	3	6	3	1	1		59
CL 43	3	370 x 310	6	6			1	1		10
CL 60	3	370 x 310	6	6	3		1	1		11
CL 100	4	400 x 360	9	6	3		1	1		17
CL 140	4	500 x 400	9	6	3		1	1		24
CL 210	4	500 x 480	9	6	6		1	1		35
CL 280	5	540 x 500	9	3	6	3	1	1		53
CL 330	5	560 x 500	9	9	6	6	1	1		57
CL 440	10	560 x 320	12	12	9	9	1	1		66
CL 600	12	600 x 370	15	15	12	12	1	1		98
CT 40-3	3	370 x 280	6	6			1	1		9
CT 55-3	3	370 x 280	6	6	3		1	1		10
CT 90-3	4	370 x 330	9	6	3		1	1		15
CT 130-3	4	500 x 380	9	6	3		1	1		23
CT 190-3	4	500 x 400	9	6	6		1	1		25
CT 250-3	5	540 x 480	9	3	6	3	1	1		46
CT 310-3	5	570 x 500	9	9	6	6	1	1		57
CT 400-3	10	540 x 320	12	12	9	9	1	1		58
CT 580-3	12	600 x 370	15	15	12	12	1	1	I data subject to technical	98

Furniture set	Number of shelves	Shelf dimensions [mm]	Number of props 50 mm	Number of props 100 mm	Number of props 150 mm	Number of props 200 mm	Ceramic stilt set	Batt wash 1 kg	Cordierite blocks for bottom layer	Total weight [kg]
CT 35-5	3	280 x 280	6	6			1	1		7
CT 50-5	3	280 x 280	6	6	3		1	1		8
CT 80-5	4	330 x 330	9	6	3		1	1		13
CT 120-5	4	460 x 380	9	6	3		1	1		22
CT 170-5	4	470 x 450	9	6	6		1	1		31
CT 220-5	5	480 x 470	9	3	6	3	1	1		41
CT 270-5	5	540 x 500	9	9	6	6	1	1		55
CT 360-5	10	540 x 280	12	12	9	9	1	1		52
CT 520-5	12	600 x 330	15	15	12	12	1	1		88
XR 100	3	440 x 350	9	6	3		1	1	4	15
XR 150	4	500 x 370	9	9	6	3	1	1	4	25
XR 190	4	500 x 400	6	6	6	6	1	1	4	27
XR 230	4	600 x 400	6	6	6	6	1	1	4	36
XR 310	5	600 x 500	9	9	6	6	1	1	4	61
XR 380	10	560 x 350	12	12	9	9	1	1	8	73
XR 520	12	600 x 370	15	15	12	12	1	1	8	98
XR 680	12	600 x 400	15	15	12	12	1	1	8	105
XR 780	14	600 x 450	18	15	12	12	1	1	8	149
XR 1060	28	470 x 370	36	32	32	24	1	1	16	165
XT 80	3	400 x 350	9	6	3		1	1	4	13
XT 120	4	470 x 370	9	9	6	3	1	1	4	24
XT 160	4	490 x 420	6	6	6	6	1	1	4	32
XT 200	4	600 x 400	6	6	6	6	1	1	4	36
XT 270	5	600 x 480	9	9	6	6	1	1	4	58
XT 330	10	560 x 340	12	12	9	9	1	1	8	71
XT 450	12	600 x 350	15	15	12	12	1	1	8	93
XT 600	12	600 x 400	15	15	12	12	1	1	8	105
XT 700	14	600 x 450	18	15	12	12	1	1	8	149
XT 1000	28	460 x 400	36	28	28	24	1	1	16	162
XG 250	4	600 x 400	6	6	6	6	1	1	4	36
XG 350	5	600 × 500	9	9	6	6	1	1	4	61
XG 500	12	550 x 400	15	15	12	12	1	1	8	87
XG 770	12	600 × 500	18	15	12	12	1	1	8	143
XG 1000	24	460 x 400	36	28	28	24	1	1	16	142

All data subject to technical change without



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All data subject to technical change without notice

#### KITTEC DIY materials for gas kilns and Raku kilns

Apart from being independent of electrical connections, the possibility of firing under a reduction atmosphere is a particularly strong argument in favour of using gas kilns.

We can provide you with DIY materials such as bottle connectors, burners etc. and much more for constructing individual gas and Raku kilns. In order to successfully master the popular Raku technique, you will find a comprehensive range of equipment and accessories such as Raku boxes and Raku tongs.

#### Gas technology:



Pot burner for gas kilns 20 kW propane pot burner – extremely quiet and easy to regulate



#### **Propane Raku burner**

Extremely quiet, easy to regulate (including foot) Optionally 20 kW or 30 kW



#### **Bottle connector**

Pressure regulator with manometer and 1.5 m hose, including all of the fittings between the burner and the gas bottle.



2-bottle adapter Including changeover device

#### **DIY** materials:



5 different brick types from 1,320 °C to 1,540 °C, which are characterised by having low heat conductivity – for low outside temperatures and outstanding insulation.

#### Insulating plates

Insulating plates are excellent as rear insulation for front-loaders.

- Calcium silicate plates up to 1,050 °C Micro-porous premium insulating plates
- up to 1.000 °C
- Vermiculite plates up to 900 °C



#### **Temperature measurement**

Thermocouple and temperature indicator (battery-powered) up to 1,440 °C

optional: Mains adapter 230 V for temperature indicator



#### Raku complete package

- The components that are required for building a Raku kiln yourself are not only available individually, but also as a complete package:
- Raku accessory A complete package: Raku burner 20 kW including foot, bottle connector, thermocouple, temperature indicator (battery operated)
- Raku accessory B complete package: Raku burner 30 kW including foot, bottle connector, thermocouple, temperature indicator (battery operated)

#### **Raku equipment and accessories**

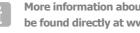
#### Raku box

Dimensions approx. 650 x 500 x 300 mm, Variant 1: Not lacquered on the inside, lacquered on the outside Variant 2: made from stainless steel



## Raku gloves

Variant 1: up to a maximum of 400 °C Variant 2: up to a maximum 1,000 °C







#### Fibre mat

The binder-free mats have excellent heat insulating characteristics.

- Fibre mat 1,200 °C ceramic fibre free
- Fibre mat 1,430 °C made from ceramic fibres



#### Raku tongs

Variant 1: galvanised, with teeth Variant 2: made from stainless steel, with circular jaws for round containers

More information about KITTEC DIY materials for gas and Raku kilns can be found directly at www.kittec.eu - simply scan in the QR code!





# INFORMATION & SERVICE

www.kittec.eu 93



## **KITTEC** CONSULTATION

#### Good advice, right from the start!

For personal consultation we would be pleased to notify you of your nearest KITTEC dealer. We would be pleased to answer your questions or take your orders by telephone or email.

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## Your contact to KITTEC: Tel.: +49-8031-892462 E-mail: info@kittec.eu

## **KITTEC DELIVERY AND INSTALLATION SERVICE**

#### Reliably delivered, securely installed.

We can also provide a delivery and installation service if required.



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## **KITTEC SPARE PARTS SERVICE**

for our first kilns in stock at all times. accordance with your specifications. Just send us your enquiry!

## **KITTEC**

### Quick service, always reliable

how to proceed.

**WKITTEC**°

MKITTEC



#### Quickly delivered, always correct.

Heating elements, support bars, switching contactors, thermocouples, control systems, insulating material – we have the most popular spare parts and also those

We can also manufacture heating elements for any other kiln manufacturer in

# **REPAIR SERVICE**

We can carry out heating coil replacement and other repairs if you require. Just give us a call, and we will give you a non-binding quote for the service work and discuss







## **KITTEC**<sup>®</sup>

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