

Kilns for Ceramics, Glass and Porcelain

Top loading kilns

Chamber kilns

Program controllers

Accessories + equipment



THERM  **CONCEPT**

Building kilns is a special challenge for us...



Using clay in creative ways demands craft skills, artistic gifts and imagination. The artist concentrates on what he wants to create: utility objects or works of art. The aids that the artist requires have to work reliably and be easy to operate. These principles apply equally to the kilns. But THERMCONCEPT kilns offer more than that:

Broad range of kilns – An appropriate selection

- From the top loading kilns to professional chamber kilns
- Kilns for hobby users and for the production of ceramics

Superb results – For highest standards

- Exceptionally uniform distribution of temperature
- Exact temperature control by means of solid-state relays for almost all models
- Good ventilation of kilns

High efficiency – To save you money

- Attractive price, low purchase cost
- Low energy consumption due to excellent thermal insulation (lightweight refractory bricks with special rear insulation)
- Utilisation of low-cost night tariffs due to short firing cycles
- Low operating costs as a result of attractive prices for spare parts

Convenient and safe operation – For hands-free working

- Extraordinarily low outer-wall temperatures due to double-walled housing with rear ventilation (at all chamber kilns)
- Charging made easy by level SiC plate in kiln floor
- Easy-to-operate controller
- Door safety switch
- Standard equipment includes a base for convenient charging of kiln, or, in the case of top loading kilns, a base on wheels for easy movement
- Manufactured according to all relevant safety regulations

Long service life – So that your investment pays off

- Exceptionally corrosion resistant, because condensation water is largely avoided by double-walled housing (or stainless steel housing in the case of top loading kilns)
- Use of high-quality heating elements (Kanthal A 1)
- Wear-free switching using solid-state relays for almost all models, extended service life of heating elements

Customised features – For your individual needs

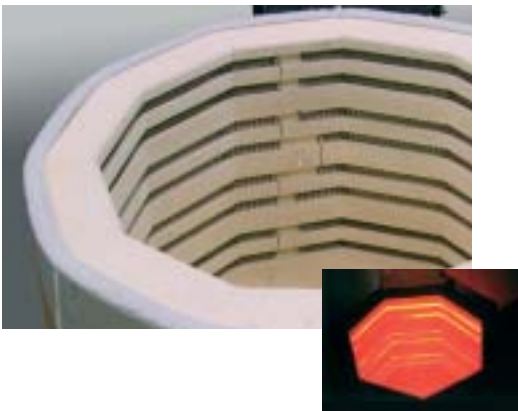
- Standard version includes extensive range of ready-fitted equipment
- Optional extras, e.g.
 - Stainless steel housing
 - Observation hole
 - Base on wheels
 - Door mounted on right side
- Other sizes on request



Top Loading Kilns: Solidly built and powerful

Your creativity knows no limits ... so you shouldn't allow it to be confined by an inferior kiln. Our top loading kilns give you every desirable option, are versatile in use, powerful and solidly built

- Two working temperatures: 1280 °C and 1340 °C
- Kiln housing made of stainless steel, so no problems with rust
- High-quality, multilayer insulation of lightweight refractory bricks with special rear insulation
- Durable heating elements (Kanthal A1), wound in grooves for protection against damage
- Lid safety switch
- Kiln mounted on rollers for ease of movement
- Easy, safe operation of the kiln cover



We recommend the TC 40 and TC 60 program controllers for these kilns.

Technical data

Model	T max [°C]	Inside dimensions Ø x height [mm]	Litres [l]	External dimensions Ø x height* [mm]	Power [kW]	Weight [kg]	Voltage [V]
SK 30/12	1280	350 x 345	30	555 x 580	3,5	38	230 1/N
SK 45/12	1280	410 x 345	45	600 x 580	3,5	55	230 1/N
SK 60/12	1280	410 x 455	60	600 x 695	4,0	65	400 3/N
SK 100/12	1280	525 x 455	100	745 x 665	7,5	80	400 3/N
SK 125/12	1280	620 x 455	125	815 x 665	8,5	98	400 3/N
SK 200/12	1280	620 x 685	200	815 x 895	11,0	120	400 3/N
SK 30/13	1340	350 x 345	30	555 x 580	3,5	42	230 1/N
SK 45/13	1340	410 x 345	45	600 x 580	4,0	60	400 3/N
SK 60/13	1340	410 x 455	60	600 x 695	4,0	70	400 3/N
SK 100/13	1340	525 x 455	100	745 x 665	7,5	85	400 3/N
SK 125/13	1340	620 x 455	125	815 x 665	8,5	100	400 3/N
SK 200/13	1340	620 x 685	200	815 x 895	11,0	140	400 3/N

*Height including rollers

Chamber kilns for the demanding ceramic artists

Do you prefer to work with a chamber kiln? If so, the kilns in our Economy line are just right for your needs. Upgrading to a chamber kiln is less difficult than you might think. You will be surprised at the excellent value for money that these kilns offer.



- Operating temperatures ranging between 900 °C and 1280 °C, or up to 1300 °C for short run
- Heating from three sides (from two sides in the KK 50/E and 90/E)
- Double-walled kiln housing, very corrosion resistant, because condensation water is largely avoided
- High-quality, multilayer insulation with lightweight refractory bricks featuring special rear insulation
- Durable heating elements (Kanthal A1), wound in grooves for protection against damage
- Heating elements in bottom of kiln are covered by a SiC plate, providing level base for stacking
- Door safety switch

We recommend the TC 40 and TC 60 program controllers for these kilns.

Technical data

Model	T max [°C]	Inside dimensions width x height x depth [mm]	Litres [l]	External dimensions width x height* x depth [mm]	Power [kW]	Weight [kg]	Voltage [V]
KK 50/E	1150	350 x 350 x 400	50	530 x 1360 x 810	3,5	95	230 1/N
KK 90/E	1280	450 x 410 x 490	90	630 x 1420 x 890	7,0	125	400 3/N
KK 120/E	1280	450 x 500 x 540	120	630 x 1510 x 940	9,0	165	400 3/N
KK 190/E	1280	550 x 590 x 590	190	860 x 1510 x 1140	12,0	230	400 3/N
KK 220/E	1280	550 x 660 x 610	220	860 x 1510 x 1160	15,0	280	400 3/N
KK 300/E	1280	600 x 810 x 610	300	940 x 1770 x 1160	18,0	310	400 3/N

*Height including base

For professional ceramics: Chamber kilns with 5-side heating and much, much more

Professionals will not accept compromises – the kiln must meet the highest standards as regards quality and fittings. THERMCONCEPT KK 120/12 – KK 300/13 chamber kilns provide everything needed for use in potteries, art and ceramics enterprises: robust construction,

optimal electrical parameters for short firing times, very good temperature distribution and durability of all technical components. And all this at an attractive price.

- Temperatures ranging from 900 °C to 1340 °C
- Double-lined kiln housing, very corrosion resistant because condensation water is largely avoided, low external temperatures
- Low heat loss, hence low power consumption due to high-quality, multilayer insulation with lightweight refractory bricks and special rear insulation
- Excellent temperature uniformity owing to heating from 5 sides (left, right, rear wall, door bottom)
- Heating elements wound on ceramic tubes, mounted in front of kiln wall, for free heat radiation
- Heating elements in bottom of kiln are covered by a SiC plate, providing level base for charging
- Precision control of kiln by means of solid-state relays that ensure high switching frequency and wear-free, noiseless operation. Extended service life for heating elements
- Good ventilation by means of air inlet in bottom and exhaust opening in roof of kiln
- Door safety switch
- Practical optional extras, e.g.
 - stainless steel housing
 - safety controller
 - automatic exhaust flap control
 - kWh meter or counter for operating hours

We recommend the TC 60 and TC 507 program controller for these kilns.



Technical data (other sizes are available)

Model	T max [°C]	Inside dimensions width x height x depth [mm]	Litres [l]	External dimensions width x height* x depth [mm]	Power [kW]	Weight [kg]	Voltage [V]
KK 120/12	1280	450 x 530 x 500	120	865 x 1510 x 1140	9	230	400 3/N
KK 150/12	1280	450 x 600 x 520	140	865 x 1510 x 1160	11	280	400 3/N
KK 200/12	1280	500 x 750 x 520	200	945 x 1725 x 1160	15	310	400 3/N
KK 250/12	1280	520 x 800 x 550	230	945 x 1775 x 1210	17	360	400 3/N
KK 300/12	1280	550 x 800 x 700	310	1025 x 1775 x 1340	20	420	400 3/N
KK 120/13	1340	450 x 530 x 500	120	865 x 1510 x 1140	11	260	400 3/N
KK 150/13	1340	450 x 600 x 520	140	865 x 1510 x 1160	15	320	400 3/N
KK 200/13	1340	500 x 750 x 520	200	945 x 1725 x 1160	20	360	400 3/N
KK 250/13	1340	520 x 800 x 550	230	945 x 1775 x 1210	23	420	400 3/N
KK 300/13	1340	550 x 800 x 700	310	1025 x 1775 x 1340	27	480	400 3/N

*Incl. base



Enameling kilns

Our small muffle kilns are admirably suited for enameling. Fitted with a resistant fibre module, they are excellently equipped for robust, continuous use. The flap door enables fast opening and closing, so heat loss can be kept to a minimum.

- Operating temperatures of up to 1100 °C
- Kiln housing made of stainless steel, so no problems with rust
- High-quality insulation, multilayered structure
- Durable heating elements (Kanthal A1), embedded in ceramic plates for protection against damage
- High-precision temperature control due to state-of-the-art control technology with microprocessor program controller.

Technical data

Model	T max [°C]	Inside dimensions width x height x depth	Litres [l]	Power [kW]	Weight [kg]	Voltage [V]
KK 03/09	1100	180 x 100 x 140	3	1,2	20	230 1/N
KK 05/09	1100	230 x 130 x 170	5	2,4	35	230 1/N
KK 09/09	1100	230 x 170 x 240	9	3,0	45	230 1/N
KK 15/09	1100	250 x 170 x 340	15	3,6	55	230 1/N



Firing aids

We supply you with an extensive range of high-quality firing aids to match our kilns. For more details, get in touch with us.



Equipment and machinery

Professional work in the field of ceramics requires machinery and equipment. We will supply you with

- Mills
- Feed rollers
- Compressors
- Spray booths
- Spray guns
- Blungers
- Presses
- Potter's wheels

Kilns and accessories for ceramics production: all from a single source!

Temperature control: Simple and reliable

THERMCONCEPT kilns are fitted with next-generation Bentrup controllers. Bentrup controllers set the standard for all hobby and professional ceramic artworks – small, compact and featuring all key functions. They also provide a level of reliability and protection that is very difficult to find in kilns of this category.

Operating the controllers takes only minutes to learn. You can use fixed programs or you design your own firing curve. By pressing a few buttons, you go through the firing curve and change the values before pressing the START button to commence firing – you can't get any simpler than that!

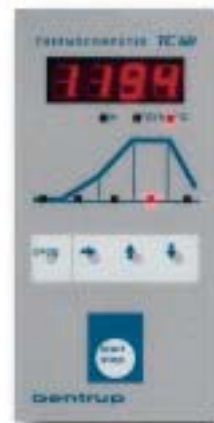
Program controller TC 40

- Very simple to operate
- Controller with one program and a simple firing curve
- Slow heat-up in 5 selectable stages to 580 °C
- Further heat-up with maximum power to an adjustable final temperature
- Soaking time selectable in 5 stages
- Programs: 1 (preset firing curve is retained)



Program controller TC 60

- Simple, straightforward operation
- Automatic start time of the kiln programmable
- Linear heat-up in two stages
- Controlled cooling is programmable
- All elements of the firing curve can be freely selected
- Programs: 5 self-defined programs, remain stored



Program controller TC 507

- Simple, straightforward operation, supported by LED position lights
- Efficient PID controller for complex requirements and greater convenience
- Automatic start time of the kiln programmable
- Up to 99 adjustable program segments
- Control of additional functions that can be activated in-process
- Programs: 99 (depending on segmentation)

Extras:

- Multizone control
- RS 232 or RS 485 interface for connection to PC





Glass decorating kiln



Our product range

THERMCONCEPT is your partner for hobby and professional ceramics and glass. We supply a wide range of

- electrically and
- gas heated

chamber, bogie hearth and hood kilns, also as high-temperature furnaces for temperatures up to 1800 °C. Ask for our special brochures.

Economical standard kilns – Specific solutions for special requirements

Many requirements can be met with our extensive range of standard kilns. The advantages for you: Proven and reliable kilns, excellent value for money, quick delivery times.

Of course, we also supply customised kilns specially designed to meet your specific applications and requirements.

Needless to say, our kilns and furnaces are built in compliance with all relevant safety regulations.

Experts in kilns

The management of THERMCONCEPT has many years of experience in the kiln business. We are well aware of your needs and requirements. This explains why we supply kilns and furnaces that are designed and constructed not only for hobby use but also for continuous production under tough conditions in ceramics enterprises.

The benefits you gain

- Proven, reliable products
- Innovative technology
- Top quality
- Excellent value for money

THERMCONCEPT offers you more than other suppliers, namely that all-important value-added. Don't be satisfied with inferior performance. Get in touch with us!