

# Kilns and Furnaces for Ceramic and Glass



Firing  
Sintering  
Debinding  
Decorating  
Drying  
  
Bending  
Slumping  
Tempering  
Cooling  
Fusing  
  
Laboratory



## Chamber Kilns KK 50/09 – KK 300/14

T max 900 °C – 1400 °C



- For temperatures up to 900, 1280, 1340 and 1400 °C
- Double-lined casing with rear ventilation > Low outer-casing temperature, corrosion protection due to absence of condensation
- With bottom damper and exhaust outlet in top of kiln
- High-quality, multilayer insulation with refractory bricks featuring special rear insulation > Low heat loss, low power consumption
- Heating from 5 sides (left, right, rear wall, door, bottom) > Extraordinarily uniform temperature distribution
- High-quality heating elements > Long service life
- Heating elements wound on ceramic tubes, mounted in front of the kiln wall > Allows free heat radiation into chamber, no heat accumulation
- Bottom heating elements covered with SiC plate > Protection of bottom elements, charging made easy by level support
- Base for convenient charging included as standard

Technical data (Kilns for operating temperatures of 1400 °C as well as other sizes on request)

Model	T max [°C]	Inside dimensions [mm] width x depth x height	Litres [l]	External dimensions [mm] width x depth x height*	Power [kW]	Weight [kg]	Voltage [V]
KK 50/09	900	350 x 400 x 350	50	910 x 1070 x 1375	2,5	125	230 1/N
KK 70/09	900	350 x 450 x 450	70	910 x 1100 x 1460	5	165	400 3/N
KK 120/09	900	450 x 500 x 530	120	1010 x 1140 x 1550	7	230	400 3/N
KK 150/09	900	450 x 530 x 600	140	1010 x 1160 x 1640	9	280	400 3/N
KK 200/09	900	500 x 530 x 750	200	1060 x 1185 x 1820	10,5	310	400 3/N
KK 250/09	900	520 x 550 x 800	230	1090 x 1230 x 1850	13	360	400 3/N
KK 300/09	900	560 x 710 x 800	310	1120 x 1340 x 1850	16	420	400 3/N
KK 50/12	1200	350 x 400 x 350	50	910 x 1070 x 1375	3,5	125	230 1/N
KK 70/12	1200	350 x 450 x 450	70	910 x 1100 x 1460	6,5	165	400 3/N
KK 120/12	1280	450 x 500x 530	120	1010 x 1140 x 1550	9	230	400 3/N
KK 150/12	1280	450 x 530 x 600	140	1010 x 1160 x 1640	10,5	280	400 3/N
KK 200/12	1280	500 x 530 x 750	200	1060 x 1185 x 1820	15	310	400 3/N
KK 250/12	1280	520 x 550 x 800	230	1090 x 1230 x 1850	17	360	400 3/N
KK 300/12	1280	560 x 710 x 800	310	1120 x 1340 x 1850	20	420	400 3/N
KK 50/13	1300	350 x 400 x 350	50	910 x 1070 x 1375	5,5	125	400 3/N
KK 70/13	1300	350 x 450 x 450	70	910 x 1100 x 1460	7,5	165	400 3/N
KK 120/13	1340	450 x 500 x 530	120	1010 x 1140 x 1550	10,5	260	400 3/N
KK 150/13	1340	450 x 530 x 600	140	1010 x 1160 x 1640	15	320	400 3/N
KK 200/13	1340	500 x 530 x 750	200	1060 x 1185 x 1820	20	360	400 3/N
KK 250/13	1340	520 x 550 x 800	230	1090 x 1230 x 1850	23	420	400 3/N
KK 300/13	1340	560 x 710 x 800	310	1120 x 1340 x 1850	27	480	400 3/N

\* Incl. base

## Chamber Kilns KK 500/09 – KK 2100/14

T max 900 °C – 1400 °C

- For temperatures up to 900, 1280, 1340 and 1400 °C
- With bottom damper and manually operated exhaust air flap in top of kiln
- Additional performance features as in chamber kilns up to 300 l

### Options:

- Multi-zone control
- Automatic control of exhaust flaps
- Automatic cooling system
- Temperature log recorder
- kWh meter, working hour meter
- Interface for PC controlling or monitoring of all functions



Technical data (Kilns for operating temperatures of 1400 °C as well as other sizes on request)

Model	T max [°C]	Inside dimensions [mm] width x depth x height	Litres [l]	External dimensions [mm] width x depth x height	Power [kW]	Weight [kg]	Voltage [V]
KK 500/09	900	650 x 750 x 1000	490	1475 x 1460 x 1825	20	700	400 3/N
KK 750/09	900	750 x 900 x 1100	740	1550 x 1605 x 1925	28	920	400 3/N
KK 1000/09	900	800 x 1000 x 1260	1000	1570 x 1775 x 2120	40	1950	400 3/N
KK 1500/09	900	950 x 1200 x 1350	1540	1760 x 1885 x 2160	55	2350	400 3/N
KK 2100/09	900	1000 x 1400 x 1500	2100	2200 x 2500 x 2500	70	2700	400 3/N
KK 500/12	1280	650 x 750 x 1000	490	1475 x 1460 x 1825	30	700	400 3/N
KK 750/12	1280	750 x 900 x 1100	740	1550 x 1605 x 1925	45	920	400 3/N
KK 1000/12	1280	800 x 1000 x 1260	960	1570 x 1775 x 2120	55	2100	400 3/N
KK 1500/12	1280	950 x 1200 x 1350	1540	1760 x 1885 x 2160	75	2600	400 3/N
KK 2100/12	1280	1000 x 1400 x 1500	2100	2200 x 2500 x 2500	105	2900	400 3/N
KK 500/13	1340	650 x 750 x 1000	490	1475 x 1460 x 1825	40	770	400 3/N
KK 750/13	1340	750 x 900 x 1100	740	1550 x 1605 x 1925	60	990	400 3/N
KK 1000/13	1340	800 x 1000 x 1260	960	1570 x 1775 x 2120	75	2300	400 3/N
KK 1500/13	1340	950 x 1200 x 1350	1540	1760 x 1885 x 2160	110	2950	400 3/N
KK 2100/13	1340	1000 x 1400 x 1500	2100	2200 x 2500 x 2500	130	3300	400 3/N

## Bogie-hearth Kilns WK 1000/09 – WK 7000/14

T max 900 °C – 1400 °C



- For temperatures up to 900, 1280, 1340 and 1400 °C
- Double-lined casing with rear ventilation  
> Low outer-casing temperature, corrosion protection due to absence of condensation
- Kiln door designed for simple and easy operation
- Rugged bogie hearth on highly rigid rubber casters  
> Freely movable, easily steered
- Bottom heating elements in the bogie hearth covered with SiC plates > Protection of bottom heating elements, charging made easy by level support
- With bottom damper and manually operated exhaust air flaps in top of kiln
- High-quality, multilayer insulation with refractory bricks featuring special rear insulation > Low heat loss, low power consumption
- Heating from 5 sides (left, right, rear wall, door, bogie hearth)  
> Extraordinarily uniform temperature distribution
- High-quality heating elements > Long service life
- Heating elements wound on ceramic tubes, mounted in front of the kiln wall > Allows free heat radiation into chamber, no heat accumulation



### Options:

- Kilns completely insulated with fibre and with meander-shaped heating elements for fast firing cycles
- Electrohydraulic lifting door
- Rail-mounted bogie-hearth with electrical drive
- Transverse shunting device in front of kiln (for rail-mounted operation)
- Multi-zone control
- Automatic control of exhaust flaps
- Automatic cooling system
- Temperature recorder
- kWh meter, working hour meter



Technical data (Kilns for operating temperatures of 1400 °C as well as other sizes on request)

Model	T max [°C]	Inside dimensions [mm] width x depth x height	Litres [l]	External dimensions [mm] width x depth x height	Power [kW]	Weight [kg]	Voltage [V]
WK 1000/09	900	1000 x 1300 x 900	1170	1700 x 2000 x 1900	32	1500	400 3/N
WK 1500/09	900	1000 x 1500 x 1000	1500	1800 x 2200 x 2000	55	1800	400 3/N
WK 2000/09	900	1000 x 2000 x 1000	2000	1800 x 2700 x 2000	70	2200	400 3/N
WK 3000/09	900	1100 x 2500 x 1100	3000	1900 x 3200 x 2200	105	2500	400 3/N
WK 5000/09	900	1100 x 3300 x 1400	5080	1900 x 4000 x 2500	120	3200	400 3/N
WK 7000/09	900	1100 x 4600 x 1400	7080	1900 x 5300 x 2500	145	4000	400 3/N
WK 1000/12	1280	1000 x 1300 x 900	1170	1700 x 2000 x 1900	45	1500	400 3/N
WK 1500/12	1280	1000 x 1500 x 1000	1500	1800 x 2200 x 2000	70	1800	400 3/N
WK 2000/12	1280	1000 x 2000 x 1000	2000	1800 x 2700 x 2000	95	2200	400 3/N
WK 3000/12	1280	1100 x 2500 x 1100	3000	1900 x 3200 x 2200	130	2500	400 3/N
WK 5000/12	1280	1100 x 3300 x 1400	5080	1900 x 4000 x 2500	160	3200	400 3/N
WK 7000/12	1280	1100 x 4600 x 1400	7080	1900 x 5300 x 2500	195	4000	400 3/N
WK 1000/13	1340	1000 x 1300 x 900	1170	1700 x 2000 x 1900	65	1500	400 3/N
WK 1500/13	1340	1000 x 1500 x 1000	1500	1800 x 2200 x 2000	95	1800	400 3/N
WK 2000/13	1340	1000 x 2000 x 1000	2000	1800 x 2700 x 2000	115	2200	400 3/N
WK 3000/13	1340	1100 x 2500 x 1100	3000	1900 x 3200 x 2200	160	2500	400 3/N
WK 5000/13	1340	1100 x 3300 x 1400	5080	1900 x 4000 x 2500	200	3200	400 3/N
WK 7000/13	1340	1100 x 4600 x 1400	7080	1900 x 5300 x 2500	265	4000	400 3/N

## Chamber and Bogie-hearth Kilns, gas-fired

T max up to 1500 °C



**Performance features of chamber and bogie-hearth kilns:**  
**Reliable operation – high quality – low-maintenance**

- Universal kilns
- Superb firing results
- Low power consumption due to multilayer fireproof lining with best insulation properties
- Protection against contamination using optional lining with cordierite plates
- Proprietary burner systems with large performance range, specially designed to match the kiln
- Automatic control of burner atmosphere
- Start-up of kiln at low temperature with high temperature uniformity and without sudden temperature changes, by special control of the gas/air mixture
- Optimal temperature distribution by means of multizone control and special flue gas routing system
- Inner kiln chamber totally leakproof, kiln operation with overpressure
- Cutting-edge control and regulation system with optimal process control for fully-automatic operation, perfectly matching the needs of users
- Minimal maintenance required



### Applications:

- Table ware
- Building and sanitary ceramics
- Fireproof ceramics
- Technical ceramics
- Art ceramics
- Terracotta
- China ware
- Glass

### We supply:

- Periodic kilns (chamber and bogie-hearth kilns)
- Continuous kiln systems (tunnel kilns)
- Dryers
- Firing aids

### Optional equipment:

- Conveying equipment, charging and recharging systems
- Control and regulation systems
- Systems for heat recovery



## High-temperature Furnaces

T max up to 1800 °C

### Applications:

- Research and production
- Testing, firing, sintering
- Technical ceramics, dental ceramics, new materials

### We supply:

- Chamber furnaces
- Bogie-hearth furnaces
- Top-hat and elevator furnaces

### Optional equipment:

- Cooling fan
- With purging air preheating
- Start-up switch
- Automatic control of exhaust flaps
- Catalytic and thermal cleaning of exhaust air
- Fully-automated systems for control and regulation
- Comprehensive process documentation

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[www.therm-concept.de](http://www.therm-concept.de)



## Chamber Furnaces for debinding ceramics

### Air-circulation Furnaces up to 750 °C

KU 120/75 DB – KU 500/75 DB

Debinding technical ceramics requires very homogenous distribution of temperatures in the furnace chamber, especially during the heating-up phase. Air-circulation furnaces are particularly suited to this purpose, because the forced circulation of air in the furnace ensures excellent temperature uniformity in the chamber. These debinding furnaces are also fitted with ventilation and automatic exhaust flap control, and the casing is effectively gas-tight.

- Furnace casing welded for gas-tightness
- Inner liner made of heat-resistant stainless steel
- Furnace door with additional seals
- 3 trays included as standard
- Ball valve for additional ventilation
- Exhaust air flaps with automatic flap control
- Gas inlet and outlet for operation under inert gas



### Chamber Furnaces up to 1340 °C, with purging air preheating

KK 120/13 DB – KK 300/13 DB

Chamber furnaces with purging air preheating enable debinding and sintering processes without transition. The debinding process is supported by supply of preheated purging air. This results in excellent temperature uniformity inside the furnace chamber. Exhaust air is discharged from the kiln through automatically controlled exhaust air flaps. When debinding has been completed at approx. 550 °C, addition of purging air is switched off and the sintering process is initiated without transition - i.e. without an intermediate cooling phase.

- Double-lined casing with rear ventilation > Low casing temperature, corrosion protection due to absence of condensation
- Heating from 5 sides (left, right, rear wall, door, bottom)  
> Extraordinarily uniform temperature distribution
- Bottom heating elements protected by SiC plate  
> Charging made easy by level support
- Purging air preheating: preheated air is blown horizontally into the furnace
- Automatic control of exhaust flaps
- Fully-automated systems for control and regulation



Technical data (other sizes on request)

Model	T max [°C]	Inside dimensions [mm] width x depth x height	Litres [l]	Power [kW]	Voltage [V]
KU 120/75 DB	750	450 x 600 x 450	120	9	400 3/N
KU 250/75 DB	750	600 x 750 x 600	250	18	400 3/N
KU 500/75 DB	750	750 x 900 x 750	500	27	400 3/N
KK 120/13 DB	1340	390 x 500 x 530	100	26	400 3/N
KK 200/13 DB	1340	440 x 530 x 750	200	31	400 3/N
KK 300/13 DB	1340	500 x 710 x 800	300	38	400 3/N

## Fusing furnaces

T max 1000 °C



- Fusing furnaces for temperatures up to 1000 °C
- Wide range of standard furnaces, as well as production of customized furnaces
- High-performance infrared heating in the hood > Optimal temperature uniformity, resistant to gases possibly released
- High-quality fibre insulation with rear insulation > Low heat absorption, for short cycle times, low power consumption
- Several ventilation ports with refractory dampers > Rapid cooling, also for monitoring the charge
- Fitted with exhaust openings, infinitely controllable in larger models
- Rugged design with base, also available with rollers as optional extra
- Gas pressure springs making it easy to move the hood



Technical data (other sizes on request)

Model	T max [°C]	Inside dimensions [mm] width x depth x height	Litres [l]	External dimensions [mm] width x depth x height	Power [kW]	Weight [kg]	Voltage [V]
GF 75/09	950	500 x 500 x 350	75	850 x 750 x 1270	3,6	80	230 1/N
GF 75/09/R	950	500 x 500 x 350	75	850 x 750 x 1270	5,5	80	400 2/N
GF 200/10	1000	1000 x 500 x 400	200	1300 x 800 x 1450	8	180	400 3/N
GF 340/10	1000	1000 x 850 x 400	340	1300 x 1200 x 1450	12	290	400 3/N
GF 480/10	1000	1200 x 1000 x 400	480	1500 x 1400 x 1450	18	360	400 3/N
GF 560/10	1000	1650 x 850 x 400	560	2000 x 1200 x 1450	20	390	400 3/N
GF 760/10	1000	1650 x 1150 x 400	760	2000 x 1400 x 1450	22	590	400 3/N
GF 920/10	1000	2000 x 1150 x 400	920	2500 x 1500 x 1450	24	680	400 3/N
GF 1050/10	1000	2200 x 1200 x 400	1050	2700 x 1500 x 1450	30	790	400 3/N
GF 1250/10	1000	2400 x 1300 x 400	1250	2700 x 1900 x 1450	35	860	400 3/N

## Air-circulation Furnaces for tempering, cooling and decorating of glass

T max 450 °C - 850 °C

Air-circulation furnaces are used when a very homogenous distribution of temperatures in the furnace chamber is required. Fans ensure that air is properly circulated. A temperature uniformity up to  $\pm 3$  K or better is achieved. Air-circulation furnaces are suitable for tempering, for cooling special glass, and for glass decoration.

### Air-circulation Chamber Furnaces

- Casing made of high-quality steel plates, rugged design
- Inner liner made of heat-resistant stainless steel
- Fitted with sheet-metal trays or racks made of stainless steel
- High-quality heating system with long service life
- Short heat-up times
- Horizontal or vertical air circulation, temperature uniformity of up to  $\pm 3$  K and better
- Inlet and exhaust pipes with manual or automatic flap control
- Cooling fan for fast, controlled cooling available as optional extra
- Control and regulation systems for fully automatic operation



### Air-circulation Bogie-hearth furnaces

- Casing made of high-quality steel plates
- Inner liner made of heat-resistant stainless steel
- Bogie hearth can be moved manually, or mounted with electrical drive on rails
- High-quality, multilayer insulation, cost-efficient operation
- Heating elements with long service life
- Short heat-up times
- Horizontal or vertical air circulation, temperature uniformity up to  $\pm 3$  K
- High rate of air circulation volume
- Cooling fan for fast, controlled cooling available as optional extra
- Control and regulation systems for fully automatic operation



## Laboratory Muffle Furnaces KL 03/11 – KL 15/12

T max up to 1200 °C



**Universal muffle furnaces for many laboratory applications, superb value for money.**

- Temperature ranges: 1100 °C and 1200 °C > Flexibility of use
- Stainless steel casing > Long service life, extremely resistant
- Hardened fibre module as inner chamber > High mechanical resilience, short firing cycles, low power consumption
- Heating wire embedded in ceramic plates > Heating wire protected against damage; service-friendly and cost-efficient
- Exhaust pipe in rear wall > Any gases possibly released can escape
- Door safety switch > Power supply interrupted when door is opened

## Laboratory Chamber Furnaces KL 06/13 – KL 30/13

T max 1340 °C

**Chamber furnaces for temperatures up to 1340 °C. Rugged refractory brick insulation, cooling system for casing.**



- Stainless steel casing > Long service life, extremely resistant
- Double-lined casing with rear ventilation fan cooling > Exceptionally low outer-casing temperature
- Multilayer insulation made of microporous material and refractory bricks > Low energy consumption, low operating costs, high mechanical durability
- High-quality heating wire > Long service life
- Exhaust pipe in rear wall > Any gases possibly released can escape
- Door safety switch > Power supply interrupted when door is opened

### Technical data

Model	T max [°C]	Inside dimensions [mm] width x depth x height	Litres [l]	External dimensions [mm] width x depth x height	Power [kW]	Weight [kg]	Voltage [V]
KL 03/11 .../12	1100/1200	180 x 140 x 100	3	380 x 415 x 400	1,2	20	230 1/N
KL 05/11 .../12	1100/1200	230 x 170 x 130	5	430 x 445 x 425	2,4	35	230 1/N
KL 09/11 .../12	1100/1200	230 x 240 x 170	9	430 x 515 x 465	3,0	45	230 1/N
KL 15/11 .../12	1100/1200	250 x 340 x 170	15	450 x 615 x 465	3,5	50	230 1/N
KL 06/13	1340	200 x 230 x 150	6	600 x 715 x 580	1,5	60	230 1/N
KL 09/13	1340	230 x 230 x 170	9	600 x 715 x 580	2,0	64	230 1/N
KL 15/13	1340	250 x 250 x 250	15	620 x 715 x 665	2,4	79	230 1/N
KL 30/13	1340	310 x 310 x 310	30	680 x 800 x 770	3,2	87	230 1/N

## Laboratory Chamber Furnaces KC 20/13 – KC 120/14

T max 1300 °C and 1400 °C

Chamber furnace for complex laboratory applications, up to and including simulation of production processes for temperatures up to 1400 °C. Extremely short heat-up times, excellent temperature uniformity.

- Double-lined casing design with rear ventilation > Exceptionally low outer-casing temperature, pleasant working conditions
- Multilayer insulation made of microporous material and refractory bricks > Low energy consumption, low operating costs
- Heated from 5 sides (left, right, door, rear wall, bottom) > Excellent temperature uniformity in the chamber up to +/- 5 K in accordance with DIN 17052, short heat-up times
- Heating elements wound on ceramic tubes, mounted in front of the furnace wall > Allows free heat radiation into chamber, resultant energy savings and long service life
- Bottom heating elements covered by silicon carbide plates



### Technical data

Model	T max [°C]	Inside dimensions [mm] width x depth x height	Litres [l]	External dimensions [mm] width x depth x height*	Power [kW]	Weight [kg]	Voltage [V]
KC 20/13 .../14	1300/1400	270 x 270 x 270	20	840 x 826 x 1180	8/9	160	400 3/N
KC 40/13 .../14	1300/1400	350 x 350 x 350	40	945 x 962 x 1468	9/11	170	400 3/N
KC 80/13 .../14	1300/1400	430 x 430 x 430	80	985 x 1066 x 1540	12/13	280	400 3/N
KC 120/13 .../14	1300/1400	500 x 500 x 500	120	1073 x 1049 x 1435	15/18	350	400 3/N

\* Incl. base

## Test furnaces for glass panes up to 1000 °C

Special furnace for testing glass panes, e.g. for testing fire protection glass using the standard time-temperature curve in the FTP Code.

- Chamber furnaces with door and a second frame that can be moved in front of the chamber for insertion of the test pane
- Special frame design enables quick changing of samples
- Heating elements mounted in rear wall, radiation directly onto glass surface
- High-quality fibre insulation, high performance (45 kW), hence short cycle times
- Measuring thermocouple for samples
- PC interface and multichannel printer for documenting processes
- Chamber area (in mm) 500 wide x 500 high, larger sizes on request



## Process control and documentation

State-of-the-art control technology is fitted as standard in THERMCONCEPT kilns and furnaces. Microprocessor controllers ensure precise furnace regulation of both simple and complex processes. The program controllers are extremely user-friendly. This means that the control system can be extended at required. Software packages for managing the controller and for evaluating the processes are available, as is visualisation software. Multizone

control is used when temperature uniformity must meet very high standards.

In addition to our proven standard systems, we also design control panels according to the customer wishes, in compliance with special plant standards and equipment regulations.

### Program Controllers



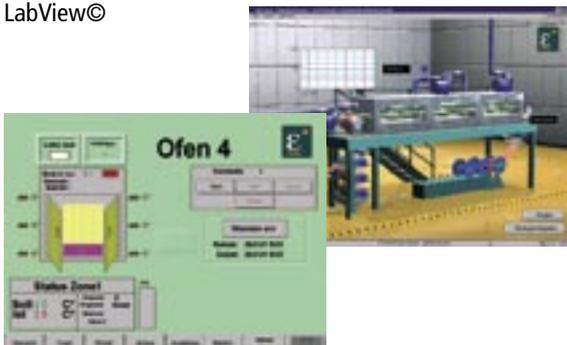
### Process documentation

Various printer options are available



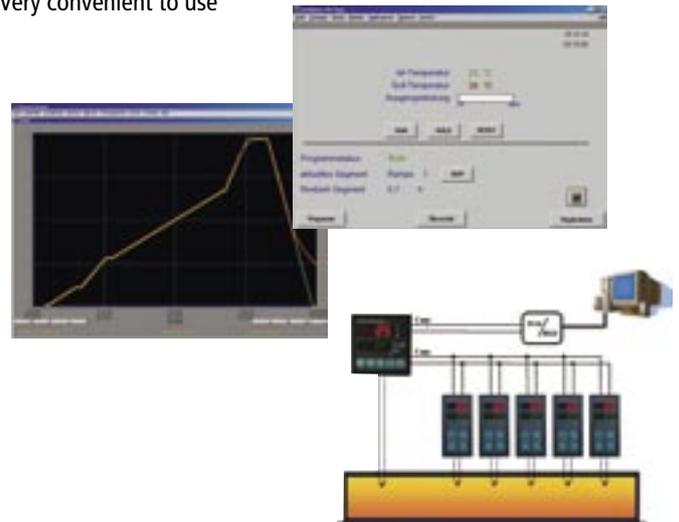
### Process visualisation

Wonderware InTouch©  
LabView©



### THERMcontrol software for analysis and control

- Management of several kilns and furnaces simultaneously
- Furnace control from a central PC
- Sensing of temperature / temperature-time profile in accordance with DIN ISO 9000 ff.
- Documentation of batch data
- Very convenient to use



### Control panel technology

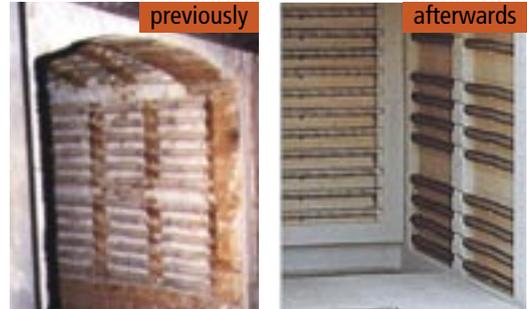
- Contactor control systems up to thyristor control
- Multi-zone control
- Automatic flap control systems



## Professional service

With our skilled workforce we are able to provide you from the outset with a wide range of professional services.

- Expert advice on applications and uses, so that you make the right investment decisions
- Simulation of your processes in our test centre
- DKD calibration / plant calibration on site or in our laboratories
- Inspection, maintenance and repairs
- Fast delivery of replacement parts
- Information and training in our laboratory



Repairs, reconstruction and modernization of furnaces and kilns, renovation of insulation and mechanical components.



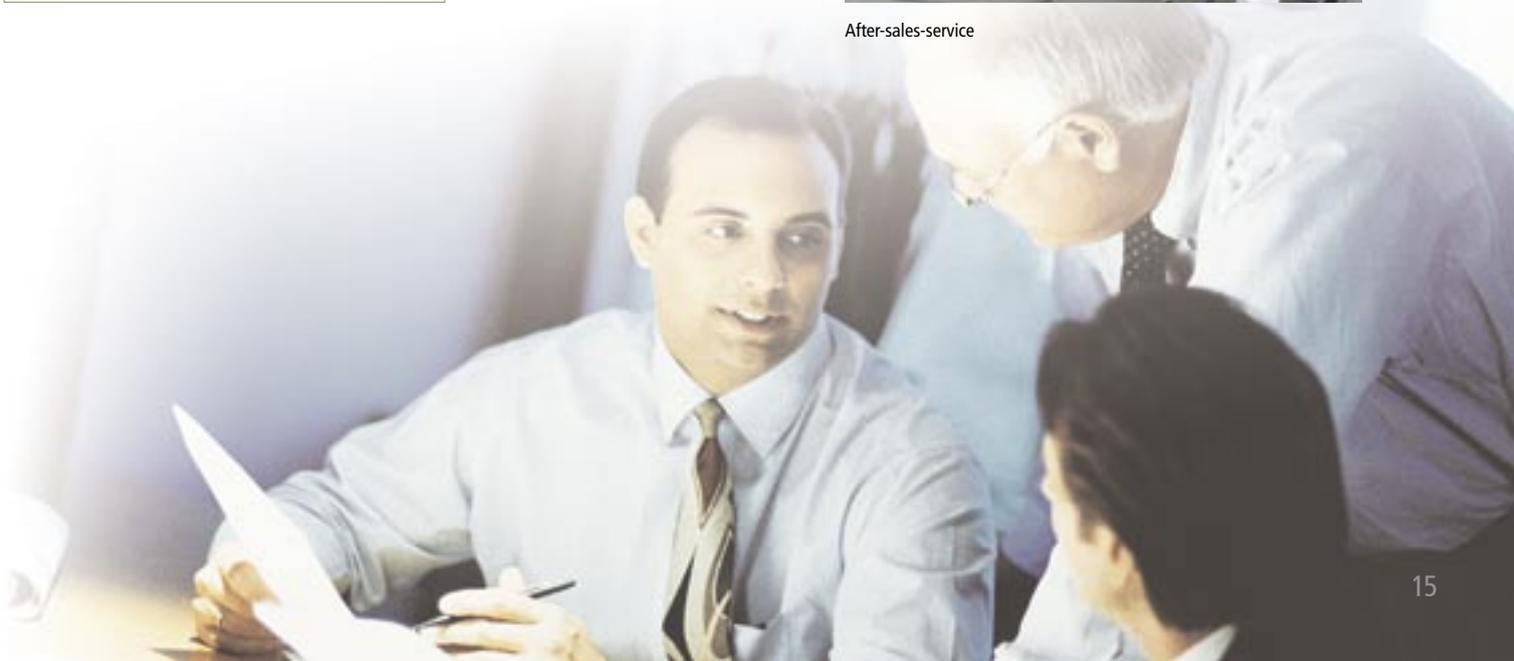
Accessories and spare parts



Control of temperature uniformity with calibrated instruments in accordance to certified procedures. Supply, renovation and modernization of switchgears



After-sales-service



## Experts in Kilns and Furnaces

THERMCONCEPT is your partner for kilns and furnaces for ceramic and glass. We supply an extensive range of

- electrical and
- gas-fired

chamber, top-hat, shaft, bogie-hearth and elevator kilns and furnaces for temperatures up to 1800 °C.



### Proven technology:

Our kilns and furnaces are made using only the best materials from world-renowned suppliers. Thus ensures maximum efficiency, reliable operation and a long service life.

### Cutting-edge design:

The kilns and furnaces are planned and executed in strict accordance with economic considerations. Direct contact with users enables us to design kilns and furnaces that are practical to use. Our aim is to deliver crucial technical and financial benefits.

### Wide range of standard kilns and furnaces:

Many applications can be achieved with our extensive range of standard kilns and furnaces. The advantages for you: proven, fully-developed models, excellent value for money and quick delivery times.

### Customer-specific solutions:

Of course, we also supply customised kilns and furnaces specially designed to meet your specific application. In close consultation with you, we create a kiln or furnace system with which you can perform your challenging tasks both reliably and economically.

### Professional service:

With our skilled workforce we are able to provide you from the outset with a wide range of professional services relating to kilns and furnaces, to help you make the right decisions.



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