



Electric Kilns

for Glass Processing



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We at **Helmut ROHDE GmbH** can be proud of 25 years of experience in the development and manufacturing of kilns and machines for the processing and firing of ceramics. Over the last years we have extended our product range by a multitude of kilns for all types of heat treatment.

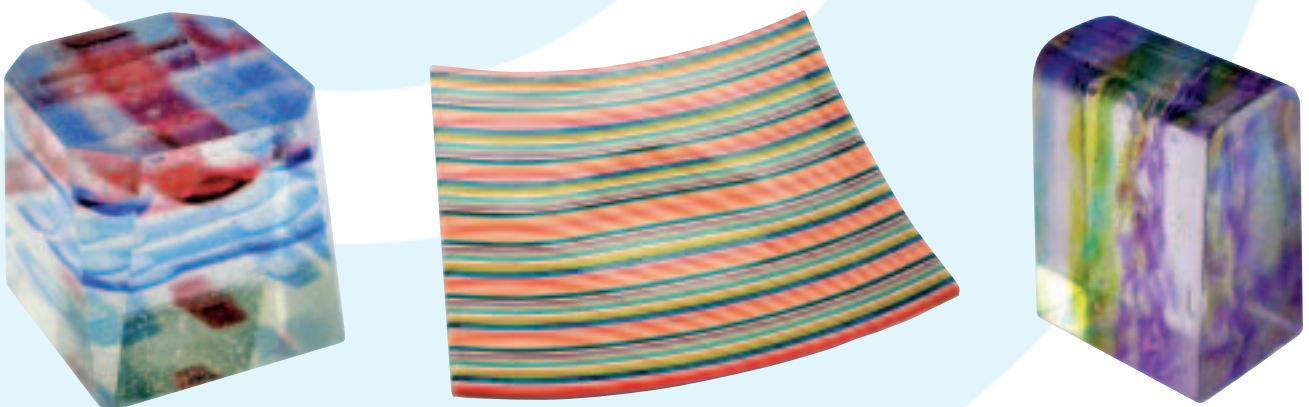
Since 2001 we are also provider of fusing kilns, making our product range highly relevant for applications in glass processing, glass arts and glass crafts.

In 2006 we have optimized this product segment in cooperation with a renowned glass artist and drawing on the experiences of our network of distributors. The result is a highly professional kiln series for fusing applications with kiln volumes from 75 to 1800 litres, and work surfaces from 520x520 mm to 3050x1550 mm.

With this brochure we would also like to introduce a segment of our top and front loader models, which can be configured particularly for the heat treatment of glass.

We supply to the entire European market with the help of a network of qualified specialized retailers – helping us to provide individual solutions and an excellent local service.

Please ask us for a competent ROHDE partner close to you.



Electric Fusing Kilns up to 1000°C



FE 100 N/S with base frame (optional)



FE 250

ROHDE Fusing Kilns FE Series

This ROHDE Fusing Kiln series uses the latest kiln technology and enables you to process glass safely and effectively. Our Fusing Kilns are designed according to modern design principles using state-of-the-art materials.

The entire steel structure is warp-resistant, components which are exposed to heat regularly are made of stainless steel. The stable steering rollers provide you with maximum flexibility when organising your workshop (for FE75 / 100 only at base frame).

The lids of kiln sizes 75 to 1000 are equipped with pressure springs, which makes opening the lid very easy and safe. All ROHDE Fusing Kilns are also available with an electric lid opening mechanism.

The insulation design of our Fusing Kilns combines a sturdy work surface made of insulating firebricks (fibre mat coating optional) and an excellently crafted fibre lid.

We are particularly careful to give our fibre material a clean and abrasion resistant surface, in order to prevent unnecessary contamination of your goods.

The spyholes are located at the sides of the kiln; this prevents the repeated contamination, as you don't have to open the lid, and it also offers the best possible overview of the entire firing chamber.

The Fusing Kiln FE 1800 is designed as a hood kiln with portal construction. The kiln hood is lifted up vertically by a manually operated mechanism. This facilitates handling pieces with large surfaces as well as charging the entire kiln with compact parts.

The work table of these models can be moved around freely when the hood has been lifted. Optionally the hood can also be lifted with a hydraulic mechanism.

All Fusing Kilns are equipped with high-grade infrared quartz radiators, the operation is controlled by solid state relays – SSR. These relays switch absolutely soundless and are only subject to minimal wear.

The combination of fiber insulation, heating by quartz radiators and power control with solid state relays provide for a very exact and safe firing process.



FE 600



Model	Tmax	Internal dimensions (mm)			External dimensions (mm)			Working height	Performance	Current	Plug	Weight
Capacity	in °C	b	t	h	B	T	H	upper surface	kW	Ampere		kg
FE 75 *	1000	520	520	280	800	930	500	350	3,6	16	Schuko	60
FE 100 N*	1000	520	520	380	800	930	1000	350	3,6	16	Schuko	80
FE 100 S*	1000	520	520	380	800	930	1000	350	7,0	15	CEE 16	80
FE 250	1000	1100	610	410	1700	1100	1800	800	11,0	16	CEE 16	350
FE 600	1000	1700	850	410	2300	1200	1800	800	15,0	22	CEE 32	500
FE 1000 N	1000	2200	1200	410	2800	1600	1900	800	22,0	32	CEE 32	800
FE 1000 S	1000	2200	1200	410	2800	1600	1900	800	30,0	43	CEE 63	800
FE 1800**	1000	3050	1550	410	3500	1900	1900	800	43,0	63	CEE 63	1600

*Table model (base frame optional equipment) **Style like hood kiln

Electric Top Loader with Lid Heating up to 1320°C



ROHDE Top Loader with Lid Heating

We have designed this flexible kiln based on our tried and tested Top Loader series TE-MCC®.

It has been extended by a heated lid and is suitable for the firing of ceramics and applications in glass processing (e.g. Pâte de verre), pre-heating as well as glass fusing.

The heating elements in the lid are mounted on high-quality carrying rods – they can radiate freely and are at the same time perfectly held in place.

This unique way of fastening the heating elements prevents contamination from the lid insulation – the top shelf of the kiln can therefore be used without restrictions.

The lid heating can be switched off by pulling the connection plug in the terminal box.

You may also opt for an automatic 2-zone control (only in connection with TC 504 and TC 507).

The kilns with lid heating are extendable with a supplementary ring (see Top Loader brochure); please note that you can only operate the lid **or** the supplementary ring at any one time.

ROHDE Top Loaders with Lid Heating – many options for the heat treatment of glass.

Our qualified retailer in your area will be happy to advise you. Please contact us to find the ROHDE partner nearest to you.

Model	T _{max} °C	Internal Dimensions (mm)			External Dimensions (mm)			Performance kW	Current A	Plug	Bats mm	Weight Netto kg
		w	d	h	W	D	H					
TE 75 MCC® DH	1320	ø470	460	720	740	800	6,0	13	CEE 16	ø420	82	
TE 100 MCC® DH	1320	ø520	460	800	830	800	7,0	15	CEE 16	ø480	89	
TE 130 MCC® DH	1320	ø580	460	830	880	800	7,3	16	CEE 16	ø550	106	
TE 200 MCC® DH	1320	ø740	460	1000	1050	800	9,2	20	CEE 32	special	130	

Special voltage for all EU power networks on request



ROHDE Electric Front Loaders

Our kiln range for the heat treatment of glass (e.g. pre-heating, Pâte de verre, glass melting and many more) is extended by a great variety of Front Loaders.

For the KE-N and KE-S series the heating elements are mounted on 5 sides of the firing chamber. This provides for exact temperatures as well as an optimal and even heating performance throughout the firing chamber.

In the KE-L series kiln, heating is effected from 3 sides – this series is particularly suitable for pre-heating glass objects or for keeping them warm.

The firing chambers of all Front Loaders are exclusively lined with high-quality firebricks – a durable and harmless insulation material.

Since 1992 we've been employing our own "System ROHDE" lid construction for all Front Loaders, which has been tried and tested in thousands of kilns by now.

The combination of supports made from high-quality industrial ceramics and the accurately and mortar-free fitted fire bricks prevents the contamination of the goods by particles falling from the kiln roof.

Each of our kilns can be combined with our micro-processor control units, the result is a precise and safe unit of production equipment.

For information on the exact equipment and possible options please read our detailed control unit brochure.

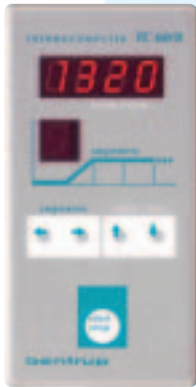
These are the data of our KE-S series – the versatile kiln series for applications in glass and ceramics processing.

For further data and information on all our Front Loader series please read our latest Front Loader brochure.



Model	Tmax	Internal Dimensions (mm)			External Dimensions (mm)			Performance	Current	Plug	Bats	Weight
Capacity	°C	b	t	h	B	T	H	kW	A		mm	Netto
KE 100 S	1320	410	470	540	750	970	1640	8,0	12	CEE 16 A	400x370	300
KE 150 S	1320	460	470	690	800	950	1730	10,5	16	CEE 16 A	420x400	380
KE 200 S	1320	460	630	690	800	1110	1730	13,2	20	CEE 32 A	560x400	410
KE 250 S	1320	520	630	770	860	1110	1740	16,5	25	CEE 32 A	560x480	450
KE 330 S	1320	580	710	800	920	1190	1740	22,0	32	CEE 32 A	600x500	530
KE 480 S	1320	630	770	995	970	1250	1760	32,0	47	CEE 63 A	580x350 (2)	620
KE 600 S	1320	710	820	1030	1050	1300	1770	40,0	59	CEE 63 A	370x335 (4)	730
KE 750 S	1320	710	1020	1030	1050	1500	1770	50,0	73	-	475x335 (4)	780
KE 1000 S	1320	910	1005	1145	1250	1490	1890	70,0	100	-	480x435 (4)	1150

Control Units for Electric Kilns



Control Unit TC 60/8

High-performance compact control unit with flexible program settings and up to 8 consecutive segments. Highest possible safety and reliability for applications in glass, metal and ceramics processing.

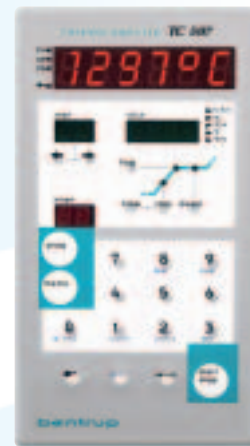
- 15 firing programs freely selectable
- delay time can be programmed
- 8 firing segments



Control Unit TC 405/30

High-performance control unit with highest safety standards, extremely user-friendly with ideal options for application in glass, metal and ceramics processing.

- control unit for 30 ramps
 - up to 80 firing programs freely selectable
- Optional equipment.



Control Unit TC 507

High-performance 30-ramp control unit with highest safety standards and many special features for demanding applications in workshops and laboratories as well as in glass fusing.

- up to 80 firing programs freely selectable
 - 2- or 3-zone control (optional)
 - 2 additional switching outputs (optional)
- Optional equipment.

Optional Equipment for Electric Fusing Kilns



Base frame for FE 75 and FE 100NS



Lid opening mechanism, electric for FE 250 to FE 1800



Floor heating for FE 250 to FE 1800

Your specialised retailer:

For further information please ask your retailer, visit our website or contact us directly.

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