



Electric kilns for glass processing





Electric toploaders with lid heating

4



Electric fusing kilns up to 950 °C

5



Electric fusing kilns up to 1000 °C

6–7



Control units

8



Equipment

8

We at **Helmut ROHDE GmbH** dispose of more than 25 years of experience in manufacturing kilns and machinery for processing and firing of ceramics. Our product range has been extended by various kilns for heat treatment over the past years.

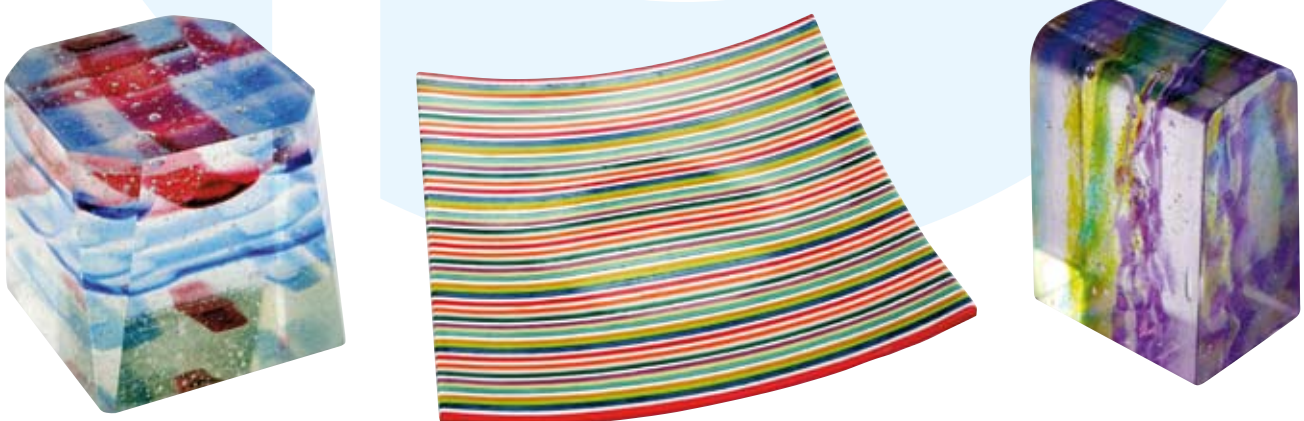
Since 2001 we have also been providing fusing kilns, making our product range highly relevant for applications in glass processing, glass arts and glass crafts.

In 2006 we optimized this product segment in co-operation with a renowned glass artist and drew 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 respectively working surfaces ranging from 520x520 mm to 3050x1550 mm.

A novelty in our range of products is the comfortable table top kilns Fusing 40 and Fusing 230. With this brochure we would also like to introduce a segment of our toploader kiln models, which can be configured particularly for the heat treatment of glass.

We supply the entire European market with the help of a network of qualified specialised retailers which guarantees individual solutions and excellent local service.

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



Electric toploders with lid heating up to 1320°C



TE 75 MCC[®] DH

ROHDE Toploaders with lid heating

We have designed this flexible kiln based on our tried and tested Toploader 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), preheating 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 parts falling 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 controllers TC 504 or TC 507).

The kilns with lid heating are extendable with a supplementary ring (please see our Toploader catalogue). Please note that you can only operate the lid or the supplementary ring at any one time.

ROHDE Toploaders with lid heating – many options for the heat treatment of glass.

Your local specialized retailer will be happy to help you. Please contact us if you do not know a ROHDE partner in your area yet.



Model	T _{max} °C	Interior dimensions (mm)			Exterior dimensions (mm)			Output kW	Current A	Plug	Furniture plates mm	Weight net kg
		w	d	h	W	D	H					
TE 50 MCC [®] DH	1320	∅ 400	380	650	700	725	7,0	11	CEE 16	∅ 350	70	
TE 75 MCC [®] DH	1320	∅ 470	460	720	740	800	9,0	13	CEE 16	∅ 420	82	
TE 100 MCC [®] DH	1320	∅ 520	460	800	830	800	10,5	15	CEE 16	∅ 480	89	
TE 130 MCC [®] DH	1320	∅ 580	460	830	880	800	11,0	16	CEE 16	∅ 550	106	
TE 200 MCC [®] DH	1320	∅ 740	460	1000	1050	800	13,8	20	CEE 32	special	130	

Please ask for special voltage electric supply within EU.



Fusing 230

ROHDE Fusing kilns

The concept for these new fusing kiln models is based on our toploader building concept tried and tested for more than 27 years. The kilns are available as table top models and are therefore suitable for integrating them in an individual workshop environment.

The controller disposes of 15 segments and can save up to 15 programs. It is comfortably integrated into the kiln and meets almost every requirement when it comes to fusing.

Particular characteristics: Fusing 40 and 230

- Insulation made of lightweight firebricks, no ceramic fibre
- High-quality infrared heating elements
- Max. temperature 950°C, low surface temperatures
- Silent and wearless Solid State Relays with exterior cooling element
- Lid easy-to-open supported by gas pressure springs
- Comfortable kiln control integrated into kiln body



Fusing 40



Controller TC 2088e

Characteristics of controller TC 2088e

- Saves up to 15 programs
- Each program with 15 segments
- Clear and easy-to-read display
- Additional switch outputs optional e.g. for signaling devices or similar
- USB interface optional for WinConfig and WinControl

Model	Tmax °C	Volume Liter	Interior dimensions (mm)			Exterior dimensions (mm)			Output kW	Current A	Plug	Weight kg
			w	d	h	W	D	H				
Fusing 40 L	950	42,0	500	400	210	850	650	530	2,9	13	Schuko*	70
Fusing 40	950	42,0	500	400	210	850	650	530	3,6	16	Schuko*	70
Fusing 230	950	218,4	1050	650	320	1400	1100	650	11,0	16	CEE 16 A	170
Fusing 230 sp	950	218,4	1050	650	320	1400	1100	650	11,0	48	-	170

*German grounded plug

Electric fusing kilns up to 1000°C



FE 100 N/S with base frame (optional)



FE 250

The ROHDE Fusing kiln series FE

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 castors allow maximum flexibility when organising your workshop (for FE 75/100 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 solid working 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 preventing repeated contamination, as you don't have to open the lid, and it also offers the best possible overview on 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 working 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. These relays switch absolutely soundless and are only subject to minimal wear. The combination of fibre insulation, heating by quartz radiators and power control with Solid State Relays allow a very exact and safe firing process.



FE 600



Model	T _{max} in °C	Interior dimensions (mm)			Exterior dimensions (mm)			Working height		Output kW	Current A	Plug	Weight kg
		b	t	h	B	T	H	Upper surface					
FE 75 *	1000	520	520	280	800	930	500	350	3,6	16	Schuko***	160	
FE 100 N*	1000	520	520	380	800	930	1000	350	3,6	16	Schuko***	200	
FE 100 S*	1000	520	520	380	800	930	1000	350	7,0	15	CEE 16	200	
FE 250	1000	1100	610	410	1700	1100	1800	800	11,0	16	CEE 16	325	
FE 600	1000	1700	850	410	2300	1200	1800	800	15,0	22	CEE 32	560	
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 top model (base frame optional equipment) **comes as hood kiln

***German grounded plug

Control units for electric kilns



Controller TC 88 e/2088 e

High-performance compact control unit with flexible program settings and up to 15 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
- 15 firing segments



Controller TC 405 / 30

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

- 30 ramps
 - Up to 80 firing programs freely selectable
- Optional equipment.



Controller 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 switch outputs (optional)
- Optional equipment.

Optional equipment for electric fusing kilns



Base frame for FE 75 and FE 100N/S



Electric lid opening mechanism for FE 250 to FE 1800



Floor heating for FE 250 to FE 1800

Your retailer:

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

Helmut Rohde GmbH

Ried 9, D-83134 Prutting
 Tel.: +49 (0)8036/674976-10, Fax: -19
 e-Mail: info@rohde-online.net
 Internet: www.rohde-brennofen.de

Technical changes and dimensional deviations in the course of further development reserved.