

Quick Start Guide

Top Loaders

Top ..., F ...

M01.2089K ENGLISCH

Original instructions

■ Made
■ in
■ Germany

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1 Important

This operating instructions summary is a shortened version of the full operating instructions to give you an initial orientation. Read the operating instructions completely before initial start-up.

You can obtain the operating instructions for the kiln via the following link or by scanning this QR code: Apps to scan QR codes can be downloaded from the corresponding sources (app stores).



<https://nabertherm.com/en/downloads/instructions>

Keep a printed or stored version for later use. You may also request a printed version of the operating instructions. Contact us, stating the kiln model and serial number (see typeplate).

2 More information and tutorials



<https://nabertherm.com/en/downloads/video-tutorials>

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3 Defined Application

TOP series kilns are electrically heated kilns designed for firing ceramics. Firing cycles are started with the kiln at ambient temperature and are completed when the kiln has returned to ambient temperature after the firing cycle has ended. The lid may be opened only at temperatures below 200 °C Kilns in the **F** series are for glass fusing, glass, and porcelain painting.

Target group

The instructions are intended for operators and professionals. Repairs and maintenance work on the electrical equipment may be carried out only by a licensed electrician.

This kiln may be used by children aged 8 years and above and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, provided they are supervised or have received instructions in using the kiln safely and they understand the hazards involved.

4 General Safety Information

This section contains an overview of the most important safety information. Please also observe the detailed descriptions and other safety precautions in the complete operating instructions.

Installation location and constructional requirements

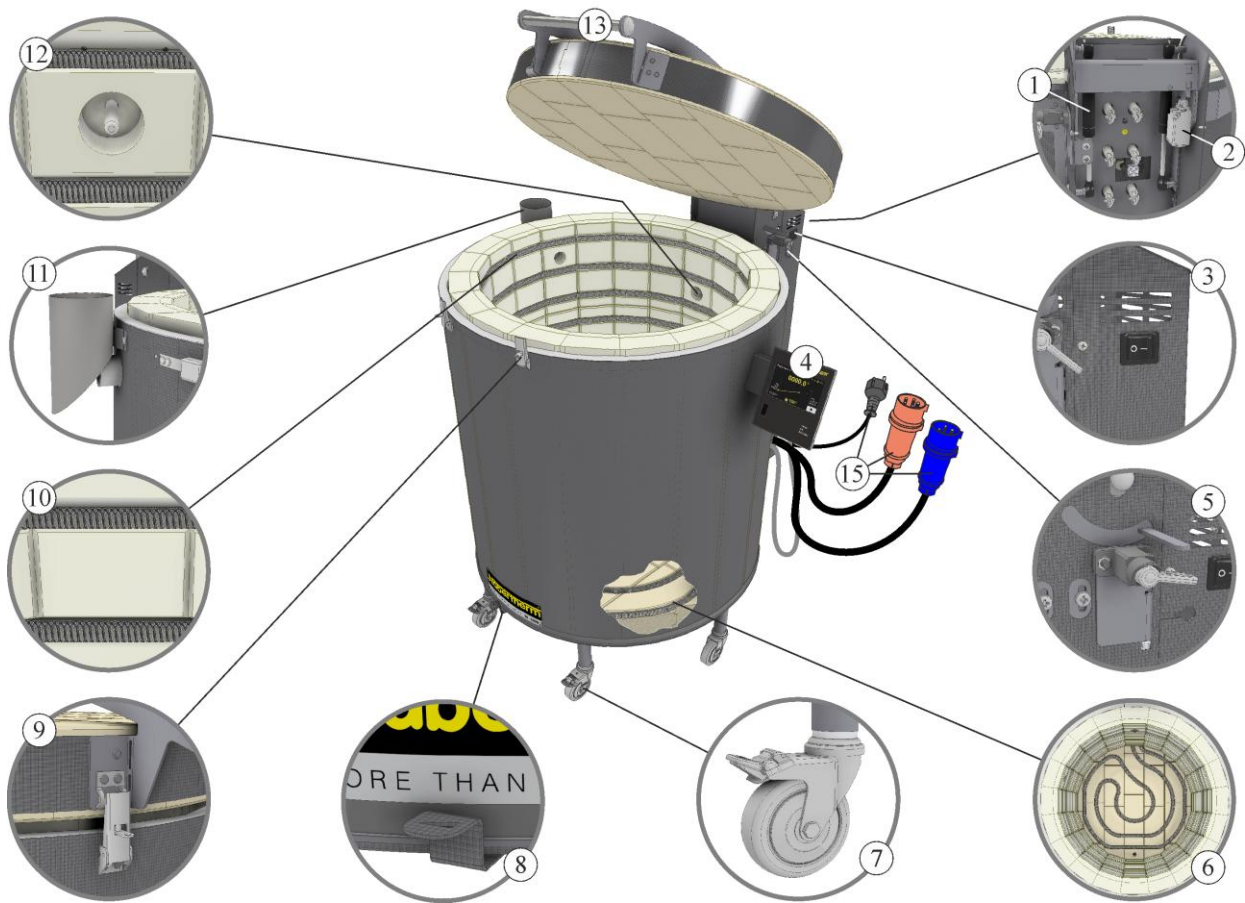
1. For safe operation, your kiln must be placed in a dry place that is protected against the weather but that is also well ventilated. The temperatures 5 °C to 40 °C must be maintained all year round.
2. Kilns radiate heat when they are operated. Ensure an all-round gap of 100 cm between the kiln and flammable and temperature-sensitive objects. The floor must not be made from flammable material. All flammable materials, such as drapes, plastics, furniture, rugs, etc., must be removed from the area around the kiln.
3. If an automatic extinguishing system is installed at the kiln installation location, ensure that it cannot be activated by the radiated heat. In this regard, also consider whether to open the kiln while it is hot. Observe local construction and fire prevention regulations.
4. The floor must have an adequate load-bearing capacity and must be level so that the kiln has a secure footing.
5. Access to the kiln must be restricted if the installation location can be accessed by unauthorized persons, children or pets.

6. Do not use an extension cable to connect the kiln. The power cable must be laid so that it does not touch hot parts of the kiln and so that no one can trip over it.
7. The workplace must be properly ventilated. Harmful vapors must be directed from the work room outdoors via professionally installed exhaust air piping.
8. The furnace must not be operated at locations above 2000 meters (6560 ft) above sea level

Operation

1. Check the kiln before switching it on. If there are external changes that could indicate a fault, the kiln must not be operated. If, during operation, changes take place or the kiln makes strange noises, switch the kiln off for safety reasons.
2. It is important to take care when working with the kiln. During operation, areas on and around the kiln can become hot and cause burns if they are touched accidentally.
3. Before starting production, check and make sure that only authorized persons are in the working area.
4. The lid must be completely open and secured before you load or unload the kiln. To do this, open the lid until it is secured by the locking bolt at the back of the kiln.
5. The kiln is not suitable for drying. Place only almost dry materials and furniture in the kiln. Objects with a high level of residual moisture can crack, split and cause corrosion on the kiln housing.
6. Do not place flammable materials in the kiln. Remove paper, wood and plastics. Materials that melt, produce flammable gases, explode or release harmful vapors must not be placed in the kiln.
7. Opening a hot kiln at temperatures above 200 °C is not permitted and will lead to increased wear of the insulation, heating elements and the kiln housing. There is also a risk of burning injuries. For your safety and to protect the kiln and your ceramics, we recommend that you do not open the kiln until the program has finished and the kiln has cooled down completely.
8. If the kiln has to be opened before it has cooled completely, you must wear suitable, heat-resistant protective clothing. Make sure that your clothing does not come into contact with hot surfaces. There is a risk that your clothing may catch fire or stick to the surface.
9. The closed lid can be secured with a lock. This is highly recommended if the installation location is accessible to unauthorized persons (such as children).
10. If a serious natural disaster is announced, such as storms, flooding or an earthquake, unplug the kiln or use the circuit breaker to disconnect the kiln from the power supply.

5 Complete Overview of the Kiln



Top loader Top 100 (similar to picture)

No.	Name	No.	Name
1	Gas struts F kilns have tension springs	9	Quick-release fastener, door can be locked with a padlock
2	Lid contact switch (heating is switched off if the lid is opened)	10	Heating elements, protected in grooves
3	Power switch (to switch the kiln on and off)	11	Bypass to connect an exhaust air pipe
4	Removable controller with touch operation	12	Thermocouple protected in the insulation
5	Automatic lid lock when open	13	Handle to raise the lid
6	Floor heating from Top 80 (additional equipment)	14	Heating elements in the lid
7	Castors	15	Country-specific plug
8	Adjustable air inlet in kiln floor for good ventilation and extraction		

Transporting the kiln



Notice

Wear protective gloves when installing the kiln.
The kiln should be transported by at least two people.

- When the kiln is delivered, check the transport packaging for possible damage. Remove straps from the transportation packaging.
- Compare the delivered items with the delivery note and the purchase order documents.
- Carefully lift the cardboard box. The pallet contains a packaging unit with accessories (e.g., power cable, bypass connection, ceramic shelves and castors).
- To carry the kiln, place your hands beneath the sides (near the feet) and make sure that you have a good grip. Lift the kiln from the pallet and carefully lower it at the point where it is to be installed.
- The packaging material inside and around the kiln must be removed completely. All packaging material can be recycled.

6 Requirements for the installation location

When choosing a place to install the kiln, make sure that the room is dry. Temperatures should be between +5 °C and +40 °C, with maximum 80% humidity. The surface (floor or bench) where the kiln is to be installed must be level to enable the kiln to stand upright. Place the kiln on a non-flammable surface. The load-bearing capacity of the bench must be suitable to take the weight of the kiln plus accessories.

Flammable materials must be kept at least 1 m from the kiln on all sides. In some cases, the distance must be greater in order due to local conditions. The minimum distance between the kiln and non-flammable materials may be reduced to 0.2 m at the sides. If the charge emits gases or vapors, ensure adequate ventilation at the installation site and/or a suitable exhaust gas venting system. If required, the customer must provide a suitable extraction system for exhaust air.

7 Assembly, Installation, and Connection

Installing the castors

The castors that are delivered can be attached to the kiln feet. We recommend that the castors with the locking brake are attached to the front of the kiln. The number of castors depends on the number of feet and varies depending on the kiln model. Kiln model Top 16/R (tabletop model) is delivered without castors. Only lift the kiln from the bottom.



Note

The kiln must NOT be placed on its side as this will damage the insulation/heating elements and thus destroy the kiln. Wear protective gloves when assembling the castors or when lifting the kiln.

Installing the controller

Attach the supplied controller with holder to the kiln. At the controller position, there are screws to attach the holder; these must be unscrewed beforehand.

- Place the controller holder with the screws loosened on to the correct position on the kiln and fasten it with suitable tools.
- Tighten the screws of the holder and check that it sits properly.
- Place the controller in the holder on the kiln.

Installing the bypass connection

The bypass connection that is part of the delivery is fixed to the side of the kiln. Depending on the model, the ventilation is in the middle of the lid or on the side of the stove. The bypass socket included in the scope of delivery must be mounted on the lateral ventilation. The bracket on the bypass connection can be adapted to suit the respective kiln model (housing circumference).

- Carefully bend the bracket at the slits using pliers until the bracket fits the shape of the kiln housing
- Undo the two screws where the bypass connection will be installed

- Place the bypass connection with the screws loosened on to the correct position on the kiln and fasten it with suitable tools
- When the bypass connection has been attached to and aligned on the kiln, you can then install an exhaust gas system if this is required

8 Venting Exhaust Fumes

When ceramics are fired, depending on the quality of the clay and/or glaze, they can emit gases and vapors that are harmful to health. It is therefore necessary to make sure that the exhaust gases emitted from the exhaust air opening are directed outdoors in a suitable manner (ventilate the working area). If adequate ventilation cannot be ensured at the working area, the “exhaust gases” must be removed via suitable heat-resistant ducting. For detailed information and detailed requirements for exhaust ducting, refer to the kiln operating instructions.

9 Connecting the Kiln to the Power Supply



 <small>MORE THAN HEAT 30-3000 °C</small>		
Nabertherm GmbH Bahnhofstr. 20, 28865 Lilienthal/Bremen, Germany Tel +49 (04298) 922-0, Fax +49 (04298) 922-129 contact@nabertherm.de		
<small>Made in Germany</small>		
<small>www.nabertherm.de</small>		
Top 160	SN 123456	2025
TOP1034-N3	1320 °C	 7,0 kW
-	240 V 3/N/PE~	-
50 Hz	30,4 A	7,0 kW

Kiln with plug

Insert the plug into a suitable socket. Pay attention to the information on the type plate as regards voltage, supply type and max. power consumption. Do not use extension cables or power strips.

The distance between the kiln and the socket should be as short as possible, which is why extension cables may not be used.

The plug (kilns with plug) connects/disconnects the kiln and switchgear to/from the power supply. The plug must be easy to reach while the kiln is operating so that it can be removed quickly in case of an emergency (see “What to Do in An Emergency”).

Before switching the kiln on, make sure that the plug and socket match. An electrician must check the continuity of the grounding via the socket. Use of sockets that support several standards (“universal sockets”) is not recommended as this could lead to dangerous conditions.

The power cable must not be damaged. Do not place any objects on the power cable. Lay the cable in such a way that no one can stand on it or trip over it.

Power cables may be replaced only with similar, approved cables.

Hard-wired kiln (without plug)

The power supply cable must be permanently connected to the terminals provided for this purpose or to the main switch in the switchgear. When carrying out this work, pay attention to the information on the type plate as regards voltage, supply type and max. power consumption. The fuse protection and the cross-section of the required power connection depend on local conditions, the length of the cable and how it is installed. For this reason, the type of protection and how it should be installed must be decided by a qualified electrician. Local binding standards must be observed.

- Do not place any objects on top of the cable. Install the power cable so that it does not touch hot parts of the kiln and no one can trip over it. Replace cables only with similar, approved cables
- The power cable must not be damaged. Lay the cable in such a way that no one can stand on it or trip over it.
- The continuity of the protective conductor must be checked in accordance with the applicable regulations.

10 Initial Start-Up and Initial Heating

Before starting the furnace for the first time, allow it to acclimatize at its installation location for 24 hours.

When the furnace is put into operation, the following safety information must also be observed to prevent injuries and damage to property.

- Make sure that the instructions and information in the operating manual and the controller instructions are observed and followed.
- Before starting the furnace for the first time, make sure that all tools, parts that do not belong in the furnace and transportation securing equipment have been removed.
- Before you switch on the furnace, make sure that you know what to do in case of faults or emergencies.

Before placing materials in the furnace, check whether they could harm or destroy the insulation or the heating elements. Materials that could damage the insulation include: alkalis, alkaline earths, metal vapors, metal oxides, chlorine compounds, phosphorous compounds, and halogens. **If applicable, read the labels and instructions on the packaging of materials that you use.**

Heat the kiln to dry out the insulation and to get a protective oxide coating on the heating elements. **The life of the heating elements is dependent on obtaining a good oxide coating.** There may be some unpleasant odors while the kiln is heating. This is due to binder being emitted from the insulation material. It is advisable to ventilate the room in which the kiln is located well during the first heating phase.

1. Fully open the fresh-air slider.
2. Close the lid and secure it with the lid lock
3. Switch on the kiln/controller at the power switch
4. Run the pre-set program "Program 01"
5. When the program ends, allow the kiln to cool naturally

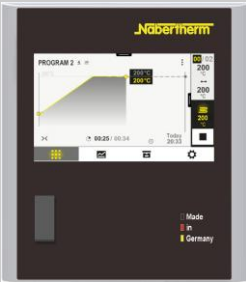


The insulation materials and furniture have natural residual moisture. During the first firings, condensation may accumulate.

11 Operation



Notice

See the separate operating instructions for a description of how to enter temperatures and times and to "start" the kiln.

Switch on the controller			
	Procedure	Display	Comments
	Switch on the power switch		Set the power switch to "I". (Power switch type varies according to design/ kiln model)
	The kiln status is displayed. After a few seconds, the temperature is displayed. The first time you switch on the kiln, a wizard is displayed that enables you to enter some basic settings, such as language.		When the temperature is shown on the controller, the controller is ready for operation.

You can obtain the operating instructions for the controller via the following link or by scanning this QR code: Apps to scan QR codes can be downloaded from the corresponding sources (app stores).

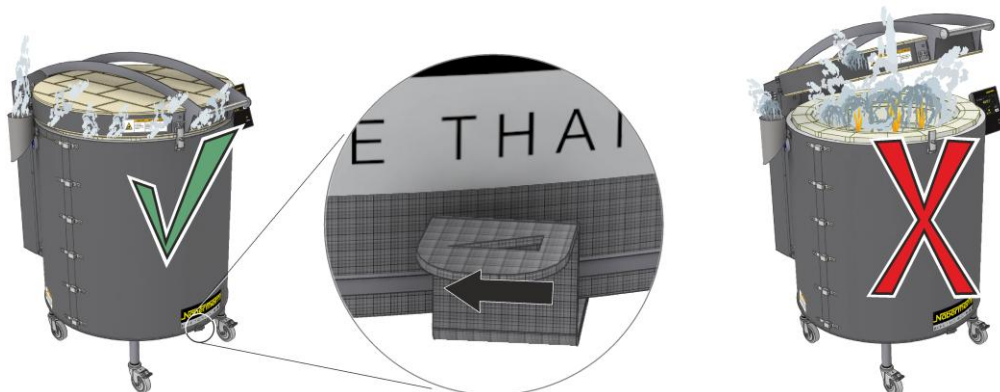


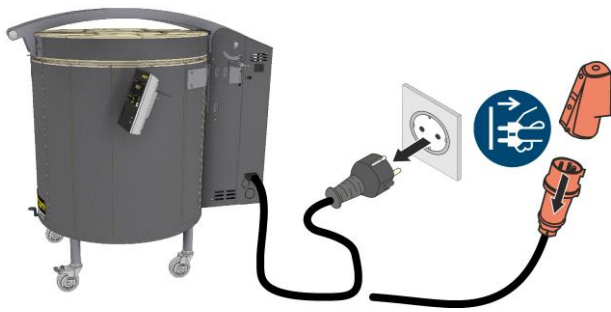
<https://nabertherm.com/en/downloads/instructions>

12 Basic Measures in Case of Emergency

In case of unexpected incidents in the kiln (for example, a lot of smoke), switch the kiln off immediately and keep the lid closed. Allow the kiln to cool with the power disconnected.

Disconnect the kiln from the power supply immediately by pulling the plug or via the circuit breaker.





Kiln with plug



Kiln with hard wiring

13 Loading the Kiln

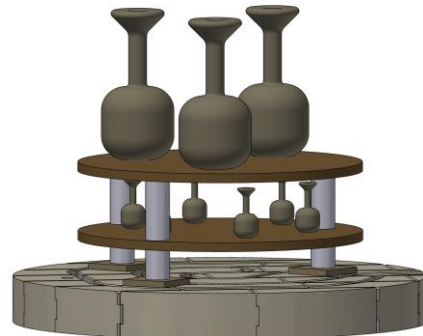
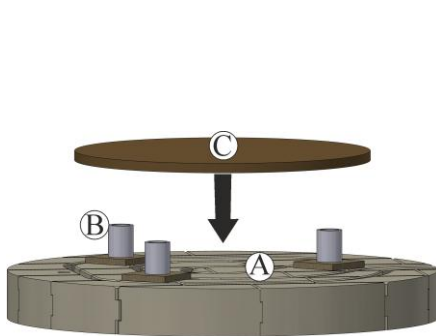
Three ceramic shelves are included with the delivery to stabilize the props and the shelves. We recommend that you use this three-point setup for good firing results.



Notice

The positioning of the ceramic shelves and props and the load have a considerable influence on the result of the firing. A proper set-up also ensures a long service life for the furniture and the kiln.

Therefore, please observe the operating instructions.



Pre-set programs

Several programs are pre-set on the controller and can be started directly. The example programs for ceramic applications are stored in the factory in programs “P02 - P05”.

- For example, for a biscuit firing (950 °C), choose the stored program “P02” from the overview.
- The program is now loaded and can be started.
- Acknowledge the subsequent security prompt with “Yes”.==== Ende der Liste für Textmarke Inhalt ====

