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Installation and Exhaust Air

Sustainability

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History of Nabertherm Kilns

The name Nabertherm stands for the highest quality and durability in kiln construction and kiln engineering. Our family-owned company has more than75 years of kiln manufacturing experience.

Nabertherm - Tradition meets innovation in kiln engineering!

Founder
Conrad Naber

Hobby kiln Hobby 70 from 1982

Top loader Top 60 from 2003

1947 Company founded by Conrad Naber in Bremen

1949 Introduction of Naber kilns as the first product line

1954 Relocation of the company to Lilienthal

1982 Introduction of the new hobby kiln series HO

2003 Introduction of the round top loader series

2006 Further development of chamber kilns

Model 14/S from 1949

Chamber kiln N 200 from 2006

Chamber kiln NW 300 from 2012

Ceramics Creates Passion.
Trust in Nabertherm.

Top loader Top 100 from 2015

Top loader HO 100 from 2018

Top loader Top 220 from 2024

2012

New controller series and design change to housing shell made from structured stainless steel

2015

Introduction of the NW series with drawer design for easy and ergonomic loading and unloading

2018

Relaunch of the HO and TOP series with energy-efficient insulation

2021

Introduction of the controller series with touch operation 500 and the "MyNabertherm" app

2024

Nabertherm Goes Solar

Our kilns combine optimal energy efficiency and deliver excellent firing results. With the "Solar Mode" on the controller, electricity from PV systems can be utilized.

Chamber kiln N 200 from 2015

Chamber kiln N 70 E from 2021

Chamber kiln NW 300 from 2024

Ceramics Creates Passion.
Trust in Nabertherm.

Facts

- Manufacturing of Arts & Crafts kilns, laboratory and dental furnaces since 1947
- Production site in Lilienthal/Bremen – Made in Germany
- 600 employees worldwide
- 150.000 customers in more than 100 countries
- Wide range of kilns
- One of the largest R&D-departments in the kiln industry
- High vertical integration

Global sales and service

- Manufacturing only in Germany
- Decentralized sales and service close to our customers
- Own sales organization and long term sales partners in all important world markets
- Individual on-site customer service and consultation
- Secured spare parts supply, many spare parts available from stock
- More information see page 67

Benchmarks in quality and reliability!

Model 14/S from 1949

Handcrafted
in Germany

Emotion, Tradition and Innovation


Our Top
Loaders

Our top loaders are the best choice for your hobby and workshop. These kilns impress with their elegant, appealing design, very high-quality workmanship and an outstanding price-performance ratio. The stainless steel housing not only gives the kiln a modern look, but also stands for robustness and durability. The intuitive controller with colored touch display makes operation very simple. Your Nabertherm top loader is not just a kiln, but a reliable and faithful partner in your workshop. And because we know how important every firing is for you, we developed the free MyNabertherm app. It allows you to monitor your firings on mobile devices and track the firing progress at all times.

With our top loaders you can be sure of top performance and quality. Experience our top of the line firing technology and realize your creative projects with TOP firing results.

The following equipment applies to all top loaders in this chapter:

- Exclusive use of insulation materials without categorization according to EC Regulation No 1272/2008 (CLP). This explicitly means that alumino silicate wool, also known as “refractory ceramic fiber” (RCF), which is classified and possibly carcinogenic, is not used.
- Freeware NTEdit for convenient program input via Excel™ for MS Windows™ on the PC
- Optimized insulation construction for a perfect balance between the best possible energy consumption and short cycle times
- NTLog Basic for Nabertherm controller: recording of firing data with USB-flash drive
- Controller can be switched to “Solar Mode” to use electricity from PV systems with and without battery
- Freeware NTGraph for evaluation and documentation of firings using Excel™ for MS Windows™ on the PC
- Defined application within the constraints of the operating instructions

“When it comes durability, a Nabertherm top loader is unbeatable.”

Marta G. Palacios,
ohyokoceramics.com

Optimal Energy Efficiency and Excellent Firing Results

Our top loaders have a long and economical life.

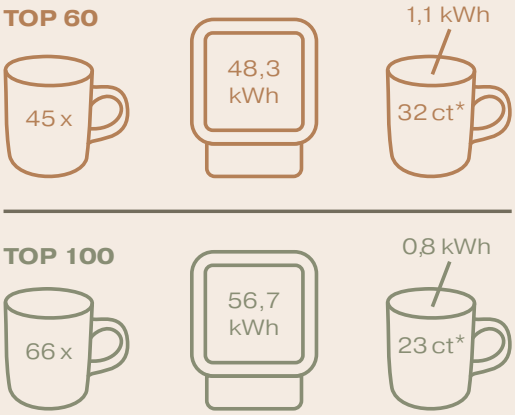
Each kiln is handcrafted with love in our factory in Germany. We use the highest quality materials we can source in every aspect of the kiln. The kiln uses energy efficiently, whilst giving you the best firing results.

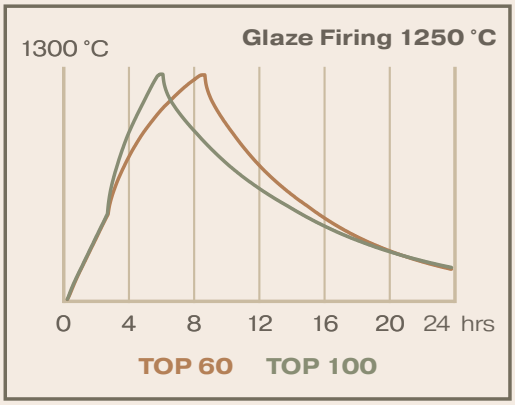
You can rely on Nabertherm:

- Optimal insulation - thanks to our proven insulation concept, we have been setting standards in terms of efficiency for years
- Shorter cool down times than most comparable models – you can fire faster and more efficiently
- Our unique controller turns every program setting into an intuitive experience
- By installing the finest materials, we can minimise the energy demand
- Excellent temperature uniformity for optimal and reliable firing results

That‘s what we call sustainability!

Costs for bisque and glaze firing using our models TOP 60 and TOP 100 as examples:

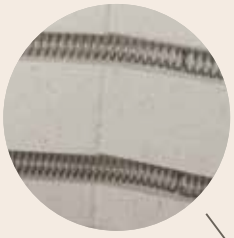




*Bisque firing 950 °C, glaze firing 1250 °C. Charge weight incl. kiln furniture: Top 60 - 18 kg, Top 100 - 30 kg. Calculated energy price: 0.30 €/kWh.

Detailed Overview

Ceramics Creates Passion.
Trust in Nabertherm.



APM wire heating elements, protected in grooves

Thermocouple type S protected in the insulation

Solid state relays ensure low noise heater operation

Bypass connector for an exhaust air pipe

Gas-pressured springs as lid lifter

Multi-layer insulation

Removable controller with touch operation (see page 58)

Quick-release lock

Mobile monitoring with the MyNabertherm app

Infinitely adjustable air inlet in opening in the kiln bottom for good ventilation and short cooling times

Robust professional castors

Structured stainless steel housing

Additional Equipment

Raised frame for Top 45 and Top 60

Controller with touch operation C540 with 10 programs with each 20 segments

Kiln furniture set, consisting of ceramic shelves and ceramic supports for loading on several levels

Bottom heating and manual zone control from 80 liters:
Does your work need a very precise temperature uniformity? In this case we recommend the optional bottom heating for our top loaders from 80 liters. With our controllers, you can control the bottom heating as a second zone. Set your firing curve on the controller as usual. If you find that the temperature uniformity has to be changed from top to bottom, you simply adjust the ratio.

Top Loaders up to 1320 °C

Discover the fascinating world of Nabertherm top loaders – they combine appealing design, easy handling and an unbeatable price-performance ratio. For you this means not only excellent firing results, but also the perfect support for your creative passion and projects in the workshop.

We are sure you know the feeling of opening your kiln after firing and admiring the results of your work with excitement. Our top loaders will not let you down. The particularly easy-to-use controller reliably regulates your firing programs. Our top loaders are not simply kilns, they are a reliable partner for your everyday pottery work and support you in realizing your creative ideas.

Insulation
Our top loaders are equipped with energy-efficient refractory insulation inside the chamber and microporous rear insulation that allows you to reach a top temperature of 1320 °C with minimum energy consumption.

- Three layers of high-quality 15 mm microporous rear insulation for top loaders up to 60 liters to ensure that you reach your firing temperature reliably
- Two layers of high-quality 20 mm microporous rear insulation for top loaders from 80 liters for a well-balanced ratio between energy-saving heating and shorter cooling times for the kiln

Controller

- Controller with touch operation B500 (5 programs with each 4 segments), controls description see page 58

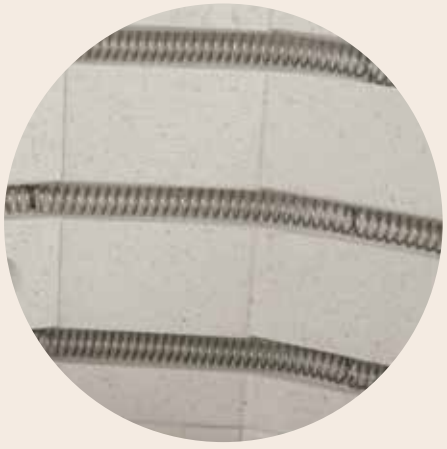
Treat yourself to something special for your hand-crafted works of art!

"Each time I open the kiln, I'm just as excited as I was after the first firing."

Marta G. Palacios,
ohyokoceramics.com

Additional equipment see page 13

Top loader Top 45



All-round heating elements, protected in grooves made of APM wire

Three layers insulation for top loaders up to 60 liters

Two layers insulation for top loaders from 80 liters

Model	Tmax	Inner dimensions in mm			Volume in	Outer dimensions[2] in mm			Connected load[3]	Electrical	Weight in
	°C	w	d	h	l	W	D	H	kW	connection*	kg
Top 45/L	1320	Ø 410		340	45	600	890	790	2.9	1-phase	66
Top 45	1320	Ø 410		340	45	600	890	790	3.6	1-phase	66
Top 60/L	1200	Ø 410		460	60	600	890	910	2.9	1-phase	74
Top 60	1320	Ø 410		460	60	600	890	910	3.6	1-phase	74
Top 80	1320	Ø 480		460	80	660	960	920	5.5	3-phase[1]	88
Top 100	1320	Ø 480		570	100	660	960	1030	7.0	3-phase	97
Top 130	1320	Ø 590		460	130	780	1080	940	9.0	3-phase	115
Top 140	1320	Ø 550		570	140	750	1040	1050	9.0	3-phase	117
Top 160	1320	Ø 590		570	160	780	1080	1050	9.0	3-phase	122
Top 190	1320	Ø 590		690	190	780	1080	1170	11.0	3-phase	135
Top 220	1320	930	590	460	220	1120	1050	960	15.0	3-phase	154

[1]Heating only between two phases

*Please see page 62 for more information about supply voltage

[2]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

[3]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Top Loaders up to 1320 °C
with increased connected load

Additional equipment see page 13

With their increased connected load and specially designed heating elements, our kilns in the Top .. R range are ideal for frequent use at high temperatures up to1290 °C. They therefore represent an attractively priced alternative to our chamber kilns that meets professional requirements.

The increased connected load enables the kilns to heat up much faster. Regardless whether for biscuit firing, earthenware, overglaze firing, soft-paste porcelain or stoneware – our Top .. R kilns are designed ideally to meet your creative needs. The compact tabletop model Top 16/R even offers the option of perfecting glaze or sample specimens on a laboratory scale. Alternatively, for permanent professional use, we recommend our chamber kilns with five side heating.

Standard equipment

- Like top loaders, see page 14

Let your art shine in a new dimension!

Top loader Top 16/R as a tabletop model

Top loader Top 100/R

Increased connected load for frequent high working temperatures

Robust heating elements made of APM wire with increased connected load to heat your kiln faster

Nabertherm's Top Loaders are Simply Perfect.

Model	Tmax °C	Inner dimensions in mm w	d	h	Volume in l	Outer dimensions[2] in mm W	D	H	Connected load[3] kW	Electrical connection*	Weight in kg
Top 16/R	1320	Ø 290		230	16	490	740	560	2.6	1-phase	40
Top 45/R	1320	Ø 410		340	45	600	890	790	5.5	3-phase[1]	66
Top 60/R	1320	Ø 410		460	60	600	890	910	5.5	3-phase[1]	74
Top 80/R	1320	Ø 480		460	80	660	960	920	7.0	3-phase[1]	88
Top 100/R	1320	Ø 480		570	100	660	960	1030	9.0	3-phase	97
Top 140/R	1320	Ø 550		570	140	750	1040	1050	11.0	3-phase	117
Top 190/R	1320	Ø 590		690	190	780	1080	1170	13.5	3-phase	135

[1]Heating only between two phases

*Please see page 62 for more information about supply voltage

[2]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

[3]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Top Loaders Rectangular

Do you need a top loader with the quality features of a professional chamber kiln? Then the HO range is the perfect choice. These kilns are your reliable companions to help you achieve impressive results.

The freely radiating heating elements on support tubes, which can also be replaced very easily after a long period of use, always guarantee outstanding firing results and thus create the basis for your creative projects. The infinitely adjustable fresh-air opening in the floor and exhaust air opening in the side ensure good ventilation of the kiln chamber and faster cooling times. Our castors allow you to move the kiln easily.

Standard equipment

- Heating elements on support tubes ensure free heat radiation
- Heating from both sides
- Robust professional-grade castors
- Two layers of energy-saving high-quality 30 mm microporous rear insulation for shorter cooling times

Controller

- Controller with touch operation B500 (5 programs with each 4 segments), controls description see page 58

Welcome to your inspiring workshop!

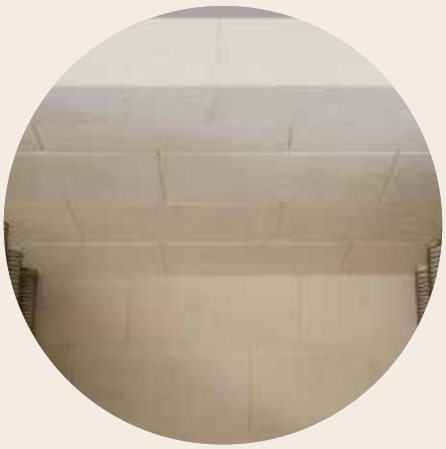
Additional equipment see page 13

"My top loader transforms my work into real masterpieces."

Will Martin,
williamjohnmartin.com

Top loader HO 70/R

Heating elements on support tubes on both sides ensure free heat radiation



Two layers insulation

Robust professional castors

Built with Tradition.

Model	Tmax °C	Inner dimensions in mm w	d	h	Volume in l	Outer dimensions[2] in mm W	D	H	Connected load[3] kW	Electrical connection*	Weight in kg
HO 70/L	1200	440	380	420	70	1025	830	830	3.6	1-phase	145
HO 70/R	1320	440	380	420	70	1025	830	830	5.5	3-phase[1]	145
HO 100	1320	430	480	490	100	1015	930	900	8.0	3-phase	160

[1]Heating only between two phases

*Please see page 62 for more information about supply voltage

[2]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

[3]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.


Our
Chamber
Kilns
PLUS DE
FLEURS

Our chamber kilns are carefully handcrafted using high quality materials and are truly worthy of the "Made in Germany" label. This quality level ensures reliable performance for many years, making our chamber kilns the ideal partner for everyday use. Their appealing design, including the intuitive color touch screen controller, gives our chamber kilns an aesthetic presence in your workshop. Excellent temperature uniformity delivers outstanding results that turn every firing into a true experience. We are well aware of how important every firing is for you, so we developed the free MyNabertherm app. This allows you to monitor your firings on mobile devices and track firing progress at all times.

The following equipment applies to all chamber kilns in this chapter:

- Exclusive use of insulation materials without categorization according to EC Regulation No 1272/2008 (CLP). This explicitly means that alumino silicate wool, also known as "refractory ceramic fiber" (RCF), which is classified and possibly carcinogenic, is not used.
- NTLog Basic for Nabertherm controller: recording of firing data with USB-flash drive
- Freeware NTGraph for evaluation and documentation of firings using Excel™ for MS Windows™ on the PC
- Freeware NTEdit for convenient program input via Excel™ for MS Windows™ on the PC
- Optimized insulation construction for a perfect balance between the best possible energy consumption and short cycle times
- Controller can be switched to "Solar Mode" to use electricity from PV systems with and without battery
- Defined application within the constraints of the operating instructions

"I trust my Nabertherm kiln.
It fires quickly, reliably and
economically."

Katharina Pasternak,
leelahloves.de

Detailed Overview

Ceramics Creates Passion.
Trust in Nabertherm.

Multi-layer refractory insulation with light-weight refractory bricks

Door seal “brick on brick”

Removable controller with touch operation (see page 58)

Mobile monitoring with the MyNabertherm app

Motorized exhaust air flap for chamber kilns from 440 liters

Exhaust air opening for chamber kilns up to 300 liters

Dual shell housing provides for low temperatures

Protected door contact switch

Solid state relays ensure low noise heater operation

Manual air inlet sliding damper for chamber kilns from 440 liters

Semi-automatic air inlet flap for chamber kilns up to 300 liters

Additional Equipment

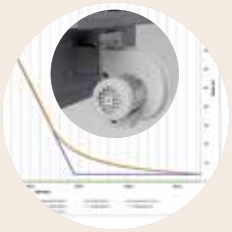
Multiple-zone control to optimize temperature uniformity in the work space

Motorized air inlet flap that can be opened and closed in relation to the program

Cooling fan incl. motorized air inlet flap for kilns up to 300 liters to reduce process times

Switchable contact for switching on a customer site exhaust air extraction fan (for chamber kilns N 100 - N 660/H, N 140 E - N 280 E, NW 150 - NW 660/H)

Controlled cooling, including cooling fan from 440 liters to reduce process times



Stainless steel exhaust hood

Door locking kit as set consisting of two door locks with 2 keys (not for chamber kilns N 40 E - N 100 E)

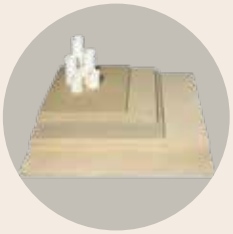
Door hinges on the left side (not for chamber kilns N .. E)

Base in special height (not for chamber kilns N 40 E - N 100 E)

Base mounted on castors (not for chamber kilns N 140 E – N 280 E)

Charging frame for ergonomic loading and unloading in front of the kiln

Kiln furniture



Observation hole in the kiln door, 15 mm diameter (not for chamber kilns N .. E)

Second bogie for NW kilns from 440 liters

Chamber Kilns up to 1300 °C
heated from five sides

Welcome to the world of professional firing. With their high-quality workmanship, attractive design, long service life and excellent temperature uniformity, our kilns in the N range set new standards. Our chamber kilns from 100 to 2200 liters, heated from five sides, have a maximum firing temperature of 1300 °C and are the creative companion for arts and crafts professionals.

These chamber kilns have proven their worth for many years, firing stoneware, porcelain and glass, even when tightly stacked and at high working temperatures. No matter whether you are working in your ceramic workshop, a studio, a hospital, a school or in the private sphere – our chamber kilns will meet your needs. They are a reliable partner even if you pack your kiln tightly and fire it frequently, guaranteeing excellent temperature uniformity.

Standard equipment

- Heating elements on support tubes ensure free heat radiation
- Heating from five sides and a special arrangement of the heating elements ensure excellent temperature uniformity
- SiC shelves to protect the floor heating and provide a level setting surface
- Frame
- Door cover made from structured stainless steel
- Semi-automatic air inlet flap that closes automatically after the drying phase in the heating program for chamber kilns up to 300 liters
- Motor-driven exhaust air flap in the middle of the kiln roof for optimum ventilation of the kiln chamber for chamber kilns from 440 liters

Controller

- Controller with touch operation B500 (5 programs with each 4 segments), controls description see page 58

Our chamber kilns are more than just kilns – they represent inspiration and passion for your unique projects!

Chamber kiln N 300

Additional equipment see page 23

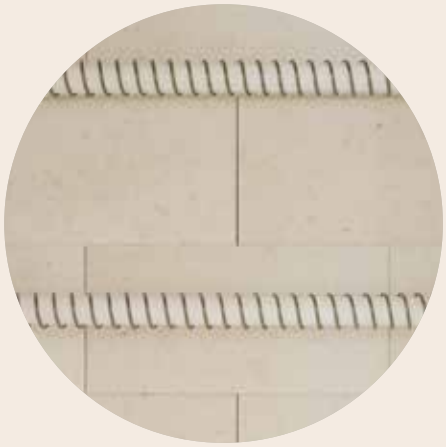
For Eternity.

„Craftsmanship for happiness.“

Tanja Möwis,
bremen-keramik.de

Heating from five sides on support tubes and a special arrangement of the heating elements ensure excellent temperature uniformity

SiC shelves to protect the floor heating and provide a level setting surface



Durable refractory insulation ensures clean firing results

Model	Tmax	Inner dimensions in mm			Volume in	Outer dimensions[2] in mm			Connected load[3]	Electrical	Weight in
	°C	w	d	h	l	W	D	H[1]	kW	connection*	kg
N 100	1300	400	530	460	100	710	1130	1440	9	3-phase	280
N 150	1300	450	530	590	150	760	1130	1570	11	3-phase	320
N 200	1300	470	530	780	200	790	1130	1760	15	3-phase	380
N 300	1300	550	700	780	300	870	1300	1760	20	3-phase	450
N 440	1300	600	750	1000	440	1000	1410	1830	30	3-phase	820
N 660	1300	600	1100	1000	660	1000	1750	1830	40	3-phase	950
N 1000	1300	800	1000	1250	1000	1390	1850	2140	57	3-phase	1800
N 1500	1300	900	1200	1400	1500	1590	2050	2290	75	3-phase	2500
N 2200	1300	1000	1400	1600	2200	1690	2250	2490	110	3-phase	3100

[1]Base included

*Please see page 62 for more information about supply voltage

[2]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

[3]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Chamber Kilns up to 1340 °C
heated from five sides

Our chamber kilns in the N .. H range have a maximum firing temperature of 1340 °C. The kilns combine the product benefits of the N range but the insulation and heating elements are designed especially for firing at higher temperatures.

They are especially robust and are the ideal partner for professional ceramists. This kiln range is particularly durable and is guaranteed to serve you reliably and safely for many years. The excellent temperature uniformity is achieved with five side heating elements on support tubes.

Standard equipment

- Like chamber kilns, heated from five sides, see page 24

Controller

- Controller with touch operation B500 (5 programs with each 4 segments), controls description see page 58

The attractive design makes a professional chamber kiln an eye-catcher in your workshop!

Additional equipment see page 23

"A Nabertherm is your best friend in the ceramics studio."

Will Martin,
williamjohnmartin.com

Chamber kiln N 300/H

Heating from five sides on support tubes and a special arrangement of the heating elements ensure excellent temperature uniformity

SiC shelves to protect the floor heating and provide a level setting surface

Increased connected load for frequent high working temperatures

Model	Tmax	Inner dimensions in mm			Volume in	Outer dimensions[2] in mm			Connected load[3]	Electrical	Weight in
	°C	w	d	h	l	W	D	H[1]	kW	connection*	kg
N 100/H	1340	400	530	460	100	760	1150	1440	11	3-phase	330
N 150/H	1340	430	530	620	150	790	1150	1600	15	3-phase	380
N 200/H	1340	500	530	720	200	860	1150	1700	20	3-phase	450
N 300/H	1340	550	700	780	300	910	1320	1760	27	3-phase	540
N 440/H	1340	600	750	1000	440	1000	1410	1830	40	3-phase	900
N 660/H	1340	600	1100	1000	660	1000	1750	1830	52	3-phase	1250
N 1000/H	1340	800	1000	1250	1000	1390	1850	2140	75	3-phase	2320
N 1500/H	1340	900	1200	1400	1500	1590	2050	2290	110	3-phase	2700
N 2200/H	1340	1000	1400	1600	2200	1690	2250	2490	140	3-phase	3600

[1]Base included

*Please see page 62 for more information about supply voltage

[2]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

[3]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Drawer and Shuttle Kilns up to 1300 °C
heated from five sides

Immerse yourself in the fascinating world of our chamber kilns in the NW range – a combination of tried and tested quality and innovative technology. With these kilns, you not only fire to 1300 °C, you create art.

Do you prefer to load your kiln conveniently and ergonomically? In this case, the NW product line is the ideal choice for your ceramics. With an easy-to-use drawer mechanism in the models up to 300 liters, the floor can be easily pulled out of the kiln. This considerably simplifies loading from three sides outside the kiln and helps protect your back and prevent back pain. The models from 440 liters have a bogie that can be loaded effortlessly outside the kiln.

Developed for ceramic workshops, studios, hospitals and schools, this product line is recommended as a trusted companion for everyday use. Most of our chamber kilns are available immediately and larger models can usually be delivered within a short time.

Standard equipment
- Like chamber kilns, heated from five sides, see page 24
- Ergonomic, effortless loading from three sides

Controller
- Controller with touch operation B500 (5 programs with each 4 segments), controls description see page 58

Discover how effortless and inspiring firing can be – welcome to your personal creative oasis!

Chamber kiln NW 300

Additional equipment see page 23

The Magic of Opening the Kiln.

Ergonomic, effortless loading from three sides

Heating from five sides on support tubes and a special arrangement of the heating elements ensure excellent temperature uniformity

SiC shelves to protect the floor heating and provide a level setting surface

Model	Tmax	Inner dimensions in mm			Volume in	Outer dimensions[1] in mm			Connected load[2]	Electrical	Weight in
	°C	w	d	h	l	W	D	H	kW	connection*	kg
NW 150	1300	430	530	620	150	810	1150	1600	11	3-phase	420
NW 200	1300	500	530	720	200	880	1150	1700	15	3-phase	490
NW 300	1300	550	700	780	300	930	1320	1760	20	3-phase	590
NW 440	1300	600	750	1000	450	1070	1410	1830	30	3-phase	850
NW 660	1300	600	1100	1000	660	1070	1750	1830	40	3-phase	1180
NW 1000	1300	800	1000	1250	1000	1460	1760	2230	57	3-phase	2100

[1]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request *Please see page 62 for more information about supply voltage

[2]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Drawer and Shuttle Kilns up to 1340 °C
heated from five sides

You like to load your kiln effortlessly and ergonomically and fire frequently to just above 1300 °C? In this case, we recommend our chamber kilns with a drawer or removable bogie up to 1340 °C.

These kilns have all the product benefits of the NW product line as well as more robust insulation and stronger heating elements that are designed for firing at higher temperatures. The high electrical rating also allows the kilns to heat up much faster. This combination of technical properties gives the kiln range the power to fire your works of art to 1340 °C.

Standard equipment

- Like chamber kilns, heated from five sides, see page 24
- Ergonomic, effortless loading from three sides

Controller

- Controller with touch operation B500 (5 programs with each 4 segments), controls description see page 58

You can look forward to a reliable and safe firing experience!

Additional equipment see page 23

Effortlessly and Ergonomically.

Shuttle kiln NW 440/H

Heating from five sides on support tubes and a special arrangement of the heating elements ensure excellent temperature uniformity

Drawer mechanism for NW chamber kilns up to 300 liters

Increased connected load for frequent high working temperatures

Model	Tmax	Inner dimensions in mm			Volume in	Outer dimensions[1] in mm			Connected load[2]	Electrical	Weight in
	°C	w	d	h	l	W	D	H	kW	connection*	kg
NW 150/H	1340	430	530	620	150	810	1150	1600	15	3-phase	520
NW 200/H	1340	500	530	720	200	880	1150	1700	20	3-phase	590
NW 300/H	1340	550	700	780	300	930	1320	1760	27	3-phase	670
NW 440/H	1340	600	750	1000	450	1070	1410	1830	40	3-phase	940
NW 660/H	1340	600	1100	1000	660	1070	1750	1830	52	3-phase	1310
NW 1000/H	1340	800	1000	1250	1000	1460	1760	2230	75	3-phase	2700

[1]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request *Please see page 62 for more information about supply voltage
[2]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Chamber Kilns
heated from two sides

Are you looking for a kiln that you can load from the front via a large door and that also has an outstanding price-performance ratio? In this case, the NE product line from 40 to 100 liters is the perfect choice for your ceramics. The heating elements are protected in grooved bricks to ensure that they are not damaged when you load the kiln. With its appealing design, this kiln product line is the perfect choice to meet your needs.

These versatile chamber kilns are ideal for ceramics but can also be used for glass or porcelain painting or simple fusing work. Most of our models are in stock and can be delivered immediately. The infinitely adjustable fresh-air opening in the door and the exhaust air opening in the roof not only optimize ventilation of the kiln chamber, they also speed up cooling so that you can touch and be fascinated by your unique works of art sooner.

Standard equipment
- Heating elements protected in grooves
- Heating from both sides
- Designed as a tabletop model, base available as an accessory
- Infinitely adjustable fresh-air inlet
- Scope of delivery includes an option for connecting an exhaust air pipe (80 mm diameter)

Controller
- Controller with touch operation B500 (5 programs with each 4 segments), controls description see page 58

Art that's fun!

Additional equipment see page 23

Chamber kilns N 70 E with base as additional equipment

Chamber kiln N 40 E as a tabletop model

Two-sided heating with elements protected in grooves

Insulation made from refractory and large format bricks ensures clean firing results

Model with base as additional equipment

Model	Tmax	Inner dimensions in mm			Volume in	Outer dimensions[3] in mm			Connected load[4]	Electrical	Weight in
	°C	w	d	h	l	W	D	H[2]	kW	connection*	kg
N 40 E	1300	350	330	350	40	640	800	600	2.9	1-phase	95
N 40 E/R	1300	350	330	350	40	640	800	600	5.5	3-phase[1]	95
N 70 LE	1200	400	380	450	70	690	850	700	2.9	1-phase	120
N 70 E	1300	400	380	450	70	690	850	700	3.6	1-phase	120
N 70 E/R	1300	400	380	450	70	690	850	700	5.5	3-phase[1]	120
N 100 LE	1100	460	440	500	100	750	910	750	5.5	3-phase	150
N 100 E	1300	460	440	500	100	750	910	750	7.0	3-phase	150

[1]Heating only between two phases

*Please see page 62 for more information about supply voltage

[2]Height with base + 700 mm

[3]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

[4]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Chamber Kilns
heated from three sides

Additional equipment see page 23

Are you looking for a very special kiln for use in a public institution or for your hobby? In this case, our kilns in the NE product line with heating elements in grooved bricks on three sides and an unbeatable price performance ratio are the perfect choice for you. This kiln range is based on the durable design of our professional chamber kilns in combination with the product benefits of our NE product line.

If you want to use the kiln intensively and regularly pack it tightly, we recommend our chamber kilns with heating from five sides. A controlled air inlet flap is included with the standard delivery. After the drying phase in the heating program, the flap closes semi-automatically at a chosen temperature without you having to do anything.

Standard equipment

- Heating elements protected in grooves
- Heating from three sides (both sides and floor)
- Three ceramic shelves and lower shelf to protect the bottom insulation and for safe stacking of the furniture
- Base frame included in the scope of delivery

Controller

- Controller with touch operation B500 (5 programs with each 4 segments), controls description see page 58

Experience intuitive technology that makes your work much easier!

"You can completely rely on the excellent firing results of a Nabertherm kiln."

Rosa Wiland Holmes,
rosawilandholmes.com

Chamber kiln N 280 E

Three-sided heating with elements protected in grooves

Three ceramic shelves and lower shelf to protect the bottom insulation and for safe stacking of the furniture

Base frame included in the scope of delivery

Model	Tmax	Inner dimensions in mm			Volume in	Outer dimensions[4] in mm			Connected load[5]	Electrical	Weight in
	°C	w	d	h	L	W	D	H[1]	kW	connection*	kg
N 140 E	1300	450[2]	580	570[3]	140	720	1130	1440	9	3-phase	280
N 210 E	1300	500[2]	580	700[3]	210	770	1130	1570	11	3-phase	320
N 280 E	1300	520[2]	580	890[3]	280	790	1130	1760	15	3-phase	400

[1]Base included

*Please see page 62 for more information about supply voltage

[2]Collar width reduced by 50 mm

[3]Collar width reduced by 110 mm

[4]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request

[5]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Standard Equipment of Chamber Kilns

Function	N 40 E – N 100 E	N 140 E – N 280 E	N 100 – NW 300/H	N 440 – NW 1000/H
Catalog page	32 - 33	34 - 35	24 - 31	24 - 31
Multi-layer insulation with light-weight refractory bricks	●	●	●	●
Exclusive use of insulation materials without categorization according to EC Regulation No 1272/2008 (CLP). This explicitly means that alumino silicate wool, also known as “refractory ceramic fiber” (RCF), which is classified and possibly carcinogenic, is not used.	●	●	●	●
Rugged, self-supporting, vaulted arch construction	-	●	●	●
Door with durable seal, precisely ground by hand	●	●	●	●
Dual shell housing, galvanized steel side panels	●	●	●	●
Protected door contact switch	●	●	●	●
Solid state relays ensure low-noise heater operation	●	●	●	●
Removable controller for comfortbale operation	●	●	●	●
Semi-automatic air inlet flap	-	●	●	-
Air inlet flap closes automatically after residual drying	-	○	○	○
Infinitely adjustable fresh-air flap	●	*	*	●
Scope of delivery includes an option for connecting an exhaust air pipe (80 mm diameter)	●	●	●	*
Motorized exhaust air flap	-	○	○	●
Five-sided heating on support tubes	-	-	●	●
Three-sided heating, protected in grooves	-	●	-	-
Two-sided heating, protected in grooves	●	-	-	-
Scope of delivery includes 3 ceramic supports and shelf	-	●	-	-
Scope of delivery includes SiC floor plate	-	-	●	●
Scope of delivery includes base	○	●	●	●
Door cover made from structured stainless steel	-	-	●	●

● Standard
○ Option
- Not available for this kiln product line
* Already motor-driven in the standard version

Raku Kilns

RAKU is centuries-old Japanese firing technique that brings a lot of pleasure. Our Nabertherm RAKU 100 chamber kiln was developed to ensure that you can experience the joy of firing your unique works of art up close.

Being able to load the kiln from the front gives you a clear view of how to arrange the art works to be fired. The door can be opened easily facing away from the user while the kiln is still hot.

Unloading the ceramics while they are hot makes the firing process a real event. By quickly cooling the ceramics and covering them with material such as leaves, straw or sawdust reduces the glaze. This produces wonderful color shades and the distinctive surface crackle that give every work of art a unique character.

Standard equipment

- High-quality, low-storage insulation for short heating times
- Special flame system for good temperature uniformity
- Positioning of the gas burner under the kiln resulting in centralized heat transfer to the charge
- Propane gas burner with cylinder connection
- Set of furniture
- Temperature measurement device incl. thermocouple
- Adjustable door with an opening angle of approx. 270°
- Environmentally friendly, durable powder-coated housing

Technically sophisticated, but also full of emotion and personal experience – enjoy the art of RAKU firing with the RAKU 100!

Raku kiln 100

Cooling and immersion of the ceramics in leaves, straw or sawdust

Set of furniture

15 kW propane gas mounted under the kiln

Temperature measurement device

For a Very Special Firing Experience.

Model	Tmax	Inner dimensions in mm			Volume in	Outer dimensions[1] in mm			Max. charge weight	Weight in
	°C	w	d	h	l	W	D	H	in kg	in kg
Raku 100	1100	350	350	350	100	800	650	1275	10	75
Burner	Outputs 15 kW									

[1]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request


Our Fusing
Furnaces

For glass art applications, Nabertherm offers fusing furnaces in various sizes and designs. All are handcrafted to the highest standard using first class materials at our factory in Lilienthal and proudly carry the “Made in Germany” label. The high quality of the furnace itself is evident, but you really notice this when you are holding the finished product in your hand. Their impressive design, combined with an intuitive color touch screen controller, make Nabertherm fusing furnaces the ideal partner in your studio. We are well aware of how important every firing is for you, so we developed the free MyNabertherm app. This allows you to monitor your firings on mobile devices and track firing progress at all times.

The following equipment applies to all fusing furnaces in this chapter:

- Exclusive use of insulation materials without categorization according to EC Regulation No 1272/2008 (CLP). This explicitly means that alumino silicate wool, also known as “refractory ceramic fiber” (RCF), which is classified and possibly carcinogenic, is not used.
- Freeware NTEdit for convenient program input via Excel™ for MS Windows™ on the PC
- Optimized insulation construction for a perfect balance between the best possible energy consumption and short cycle times
- NTLog Basic for Nabertherm controller: recording of firing data with USB-flash drive
- Controller can be switched to “Solar Mode” to take advantage of electricity from PV systems with and without battery
- Freeware NTGraph for evaluation and documentation of firings using Excel™ for MS Windows™ on the PC
- Defined application within the constraints of the operating instructions

“Our fusing furnaces are reliable companions for your creativity.”

Detailed Overview

Large handles

Closely arranged roof heating elements protected in quartz glass tubes

Level table surface with rugged refractory insulation

Adjustable, large quick-release fasteners

Rugged base on castors with shelf

Ergonomic charging height of 860 mm

Heating switches off when the lid is opened

Solid state relays ensure low-noise heater operation

Closable opening for ventilation

Removable controller with touch operation (see page 58)

Mobile monitoring with the MyNabertherm app

Gas pressure springs

Appealing, dual-shell stainless steel housing

Additional Equipment

Observation window in air inlets to observe the glass

Automatic and manual exhaust air opening in the roof for faster cooling. Operating lever on the right-hand side of the furnace (above the switchgear).

Additional tables to extend the furnace system for GFM models; interchangeable table system to utilize residual heat and reduce cycle times by changing tables while the furnace is still warm

Fusing Furnaces
with fixed table

Additional equipment see page 43

Nabertherm fusing furnaces in the GF 75 – GF 1425 product line were developed for professional use to meet the highest standards. The heating elements, arranged close together and protected in quartz glass tubes, guarantee a remarkably high level of temperature uniformity across the entire surface of the table – perfect for fusing or bending glass.

All models have an appealing, dual-shell stainless steel housing. The level table surface is made from sturdy, durable refractory bricks. The hood opening is supported with gas struts that makes for effortless work. The electric rating of the furnace heating has been optimized to heat up the glass quickly.

Standard equipment

- Heating elements protected in quartz glass tubes
- Controller integrated on the right-hand side of the furnace to save space

Controller

- Controller with touch operation C540 (10 programs with each 20 segments), controls description, see page 58

Our fusing furnaces combine precision and aesthetics. Experience how our technology enriches your artistic vision!

Fusing furnace GF 75

Fusing furnace GF 240

Heating elements in the roof arranged closely next to each other are protected in quartz glass tubes

Controller with touch operation C540 (10 programs with each 20 segments)

Rugged base on castors with surface for glass and tools

Model	Tmax	Inner dimensions in mm			Floor space	Outer dimensions[4] in mm			Connected load[5]	Electrical	Weight in
	°C	w	d	h	in m²	W	D	H[3]	kW	connection*	kg
GF 75	900	620	620	310	0.38	1070	950	1370	3.6	1-phase	180
GF 75 R	950	620	620	310	0.38	1070	950	1370	5.5	3-phase[1]	180
GF 190 LE	950	1010	620	400	0.62	1460	950	1460	6.0	1-phase[2]	210
GF 190	950	1010	620	400	0.62	1460	950	1460	6.4	3-phase[1]	210
GF 240	950	1010	810	400	0.81	1460	1140	1460	11.0	3-phase	275
GF 380	950	1210	1100	400	1.33	1660	1460	1460	15.0	3-phase	450
GF 420	950	1660	950	400	1.57	2110	1310	1460	18.0	3-phase	500
GF 520	950	1210	1160	400	1.40	1660	1520	1460	15.0	3-phase	550
GF 600	950	2010	1010	400	2.03	2460	1370	1460	22.0	3-phase	600
GF 920	950	2110	1160	400	2.44	2560	1520	1460	26.0	3-phase	850
GF 1050	950	2310	1210	400	2.79	2760	1570	1460	32.0	3-phase	1050
GF 1425	950	2510	1510	400	3.79	2960	1870	1460	32.0	3-phase	1250

[1]Heating only between two phases
[2]Fuse if connected to 230 V = 32 A
[3]Including base
[4]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request
[5]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

*Please see page 62 for more information about supply voltage

Fusing Furnaces
with movable table

Fusing furnaces in the GFM product line were developed especially to complement the proven quality benefits of the GF product line with an option to load the table outside the furnace. The table runs on swivel castors and allows maximum flexibility and mobility.

The scope of delivery includes a flat table, ideal for fusing work, while more tables can be added if required. The innovative interchangeable table system is especially economic in production processes. While material is fired on one table in the furnace, the other can already be prepared outside the furnace. Instead of flat tables, you can also use different tables with different heights. This opens up many options if, for example, the furnace is to be used for higher components. Our fusing furnaces in the GFM product line combine technology and flexibility. They offer a tailored solution for your individual requirements.

Standard equipment
- Heated hood with fixed frame
- Movable table

Controller
- Controller with touch operation C540 (10 programs with each 20 segments), controls description, see page 58

Experience how our technology can take your production to a new level!

Additional equipment see page 43

Craftsmanship for Happiness.

GFM 1425 fusing furnace with motorized hood opening

Heating elements in the roof arranged closely next to each other are protected in quartz glass tubes

Controller with touch operation C540 (10 programs with each 20 segments)

Movable table on swivel castors

Model	Tmax	Inner dimensions in mm			Floor space	Outer dimensions[1] in mm			Connected load[2]	Electrical	Weight
	°C	w	d	h	m²	W	D	H	kW	connection*	in kg
GFM 420	950	1660	950	400	1.57	2230	1390	1460	18	3-phase	630
GFM 520	950	1210	1160	400	1.40	1780	1600	1460	15	3-phase	670
GFM 600	950	2010	1010	400	2.03	2580	1450	1460	22	3-phase	730
GFM 920	950	2110	1160	400	2.44	2680	1600	1460	26	3-phase	980
GFM 1050	950	2310	1210	400	2.79	2880	1650	1460	32	3-phase	1190
GFM 1425	950	2510	1510	400	3.79	3080	1950	1460	32	3-phase	1390

[1]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request *Please see page 62 for more information about supply voltage
[2]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Top Loaders as Fusing Furnaces

Choose the ideal companion for your fusing work – our top loaders as fusing furnaces. With robust refractory insulation and protected heating in the lid, our fusing furnaces in the F 75 – F 220 range with additional side heating provide optimum support.

Standard equipment

- Refractory insulation ensures clean firing results
- Lid with adjustable quick-release lock and padlock
- Adjustable lid suspension
- Durable lid seal (brick on brick)
- Lid interlock safety switch
- Heating elements in the roof, with fusing furnaces F 75 – F 220 also all around the sides
- Solid state relays ensure low noise heater operation
- Powerful gas struts support lid opening
- Top loader F 30 as tabletop model without castors
- F 220 with two-zone control (lid and side) as standard

Controller

- Controller with touch operation C540 (10 programs with each 20 segments) or P570 (50 programs with each 40 segments) for F 220; controls description, see page 58

A reliable companion whose performance will delight you!

"I entrust my art to my Nabertherm fusing furnace."

David Perry
davidperryglassceramics.uk

Additional equipment see page 43

Fusing furnace F 30

Sturdy lid design with two lid brackets

Interior with bottom side ring heating on fusing furnaces F 75 – F 220

Sturdy professional-grade castors on fusing furnaces F 75 – F 220

Model	Tmax	Inner dimensions in mm			Floor space	Outer dimensions[1] in mm			Connected load[2]	Electrical	Weight in
	°C	w	d	h	in m²	W	D	H	kW	connection*	kg
F 30	950	Ø 410		230	0.13	640	770	585	2.0	1-phase	55
F 75 L	950	750	520	230	0.33	945	930	690	3.6	1-phase	95
F 75	950	750	520	230	0.33	945	930	690	5.5	3-phase	95
F 110	950	930	590	230	0.47	1130	1000	690	7.5	3-phase	110
F 220	950	930	590	460	0.47	1130	1000	920	15.0	3-phase	150

[1]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request *Please see page 62 for more information about supply voltage
[2]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Glass Beads Cooling Furnace

A high-quality furnace is indispensable for the creative design of glass beads. The MF 5 model is the ideal companion for cooling glass beads or glass jewelry.

The door has a slit for glass beads which can be closed with the supplied plug if the furnace is to be used for other applications. With a maximum temperature of 950 °C, the furnace becomes a versatile helper – also ideal for small fusing and enameling jobs, decorations and to pre-heat frits and other materials.

Standard equipment

- Tabletop model
- Furnace top heating, protected in quartz glass tubes
- Multi-layer insulation
- Housing made from structured stainless steel
- Solid state relays ensure low noise heater operation
- Easy to fill with glass beads

Controller

- Controller with touch operation C540 (10 programs with each 20 segments), controls description see page 58

Experience the world of glass working with a Nabertherm furnace that not only offers technology but also creates passion and inspiration!

Experience Glass Working in a New Light.

Glass beads

Glass beads cooling furnace MF 5

Glass beads

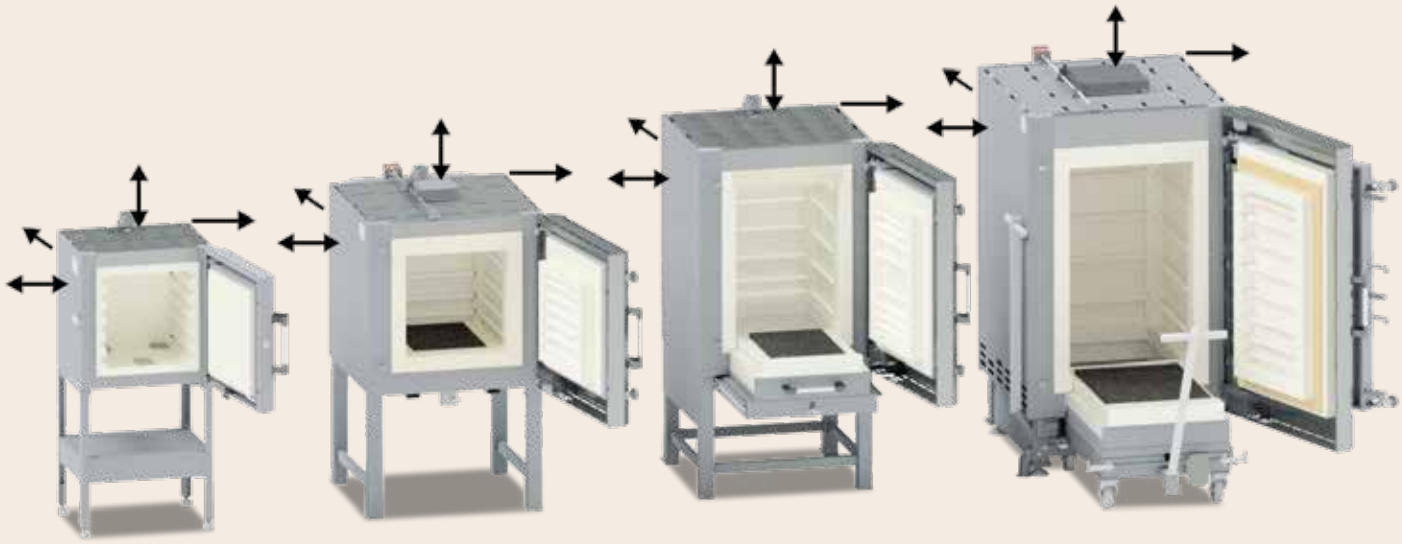
Model	Tmax	Inner dimensions in mm			Volume in	Outer dimensions in mm			Connected load[1]	Electrical	Weight in
	°C	w	d	h	l	W	D	H	kW	connection*	kg
MF 5	950	220	240	100	5	485	370	320	1.6	1-phase	15

[1]The connected load refers to the standard furnace and may increase for a furnace with addtional equipment. *Please see page 62 for more information about supply voltage
For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

Installation and Exhaust Air System

Installation

When the kiln is being installed, it is important that there is a safety gap of 0.5 m between the kiln and flammable materials on all sides and 1.0 m to the ceiling. If the ceiling is lower, heat-resistant insulation must be used for protection. If non-flammable materials are used for insulation the minimum distance between the kiln may be reduced to 0.20 m at the sides. The kiln must be placed on a non-flammable surface (fire safety class A DIN 4102 – Example: concrete, tiles, glass, aluminum or steel). The floor must be level so that the kiln can stand upright. Kiln and switchgear are not designed to be used outdoors.



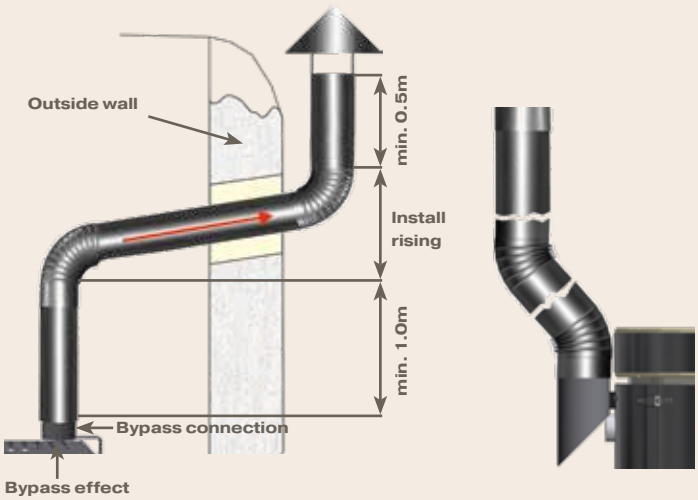
Exhaust air system

When ceramics are fired, depending on the quality of the clay and/or glaze, it can emit gases and vapors that are harmful to health. Therefore, exhaust gases must be directed outdoors in a suitable manner. We recommend the connection of an extraction pipe to the kiln to remove the exhaust gases.

An 80 mm diameter zinc-plated steel pipe or stainless steel pipe is suitable for this purpose (up to model N 300/H). The pipe must be installed constantly rising. Sufficient room ventilation is necessary to ensure that fresh air is mixed with the exhaust gases.

A maximum exhaust gas temperature of approx. 200 °C can be assumed for the piping system. There is a risk of burning at the bypass connection and the piping. The wall duct must be made from heatproof material. We recommend that a local ventilation company dimensions the exhaust gas piping.

For models Top .. it should be noted that the exhaust air pipe must be fitted to the bypass connection starting with a rising bend so that the cover can be opened freely.



Nabertherm Goes Green

All of our kilns are hand-made at our factory Germany, using the best available materials. In our kiln production, we not only pay attention to the careful use of our valuable resources, but also make an important contribution to sustainable energy generation ourselves.

With 2450 solar modules, our state-of-the-art photovoltaic system, installed on the roof of our production hall, has a powerful output of 999 kWp! This covers a significant part of our electricity requirements and reduces our CO_2 emissions by 705 tons per year. We are thus taking another important step towards climate neutrality.

We live sustainability!

Nabertherm Goes Solar

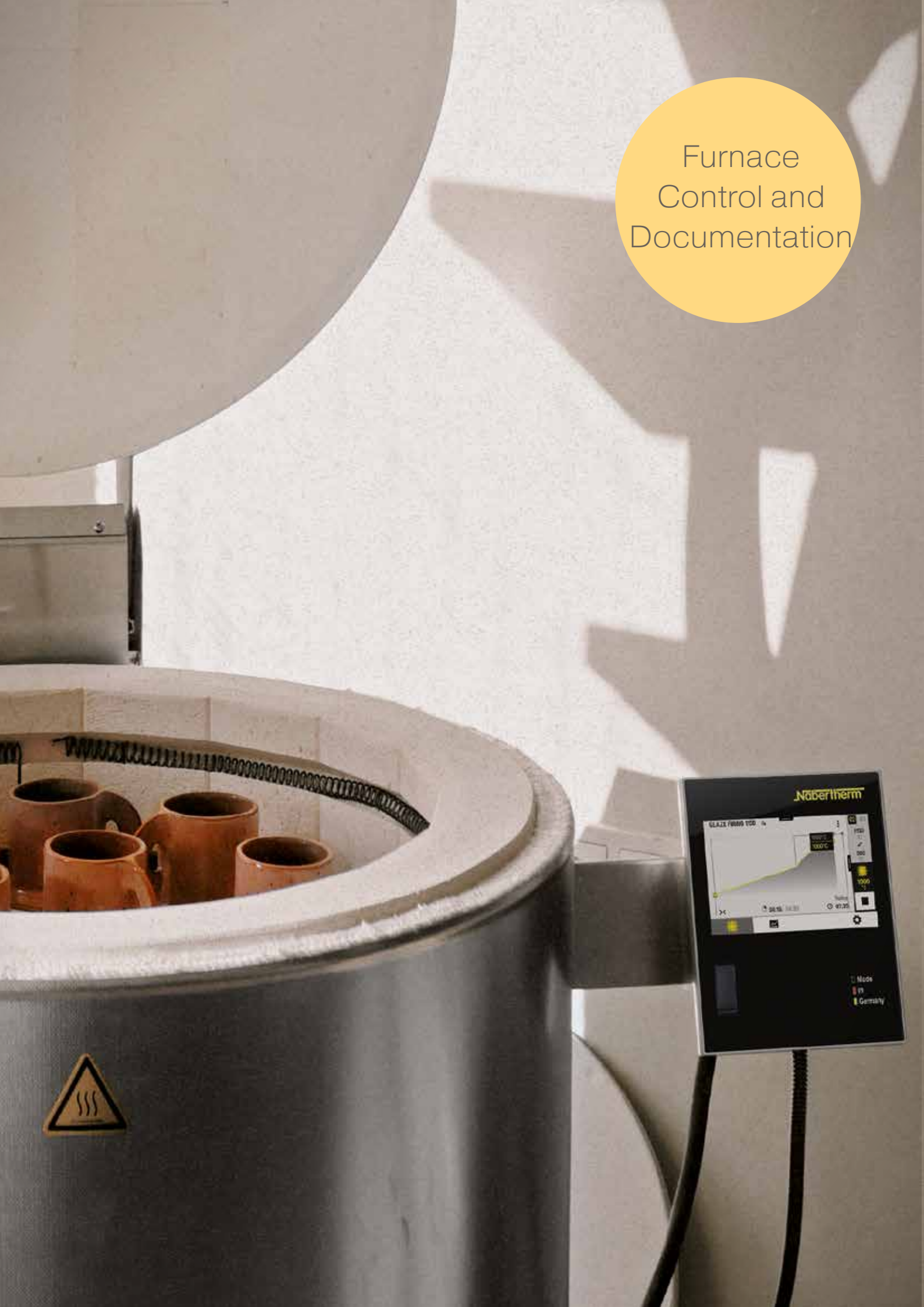
Have you already invested in a photovoltaic system as your contribution to sustainable energy generation and would like to use this energy to operate your kiln? Every controller in the 500 series can be switched to “Solar Mode” and utilize electricity from photovoltaic systems with and without a battery. A specially tuned control response ensures that the delayed switchover times of solar storage systems are taken into account in the control system. As opposed to other solutions on the market, in solar mode, our controllers work with two switching points, which reduces temperature overshoots. This produces more uniform and improved firing results, especially with hold times. The "Solar Mode" can be set so that the oscillation behavior of the controller for heating ramps and hold times is considered separately. This ensures the best possible balance between short heating times and precise temperature control in the hold range.

Solar mode can be activated on all 500 series controllers and can be used for all electrically heated kilns.

Photovoltaics for sustainable firing results!

Solar
Mode


Nabertherm
1150
1150°C
1000°C
02 / 03
1150
°C
500
°C
1000
°C
5/ 04:35
Today
07:35


Furnace
Control and
Documentation
Nabertherm

Our extensive line of standard controllers satisfies most customer requirements. Based on the specific furnace model, the controller regulates the furnace temperature reliably and is equipped with an integrated USB-interface for documentation of firing data (NTLog/NTGraph).

Our standard controllers are developed and produced within the Nabertherm Group.When developing controllers, our focus is on ease of use. The user can choose between 24 languages. From a technical standpoint, these devices are custom-fit for each furnace model or the associated application. From the simple controller with an adjustable temperature to the control unit with freely configurable control parameters, stored programs and PID microprocessor control with self-diagnosis system, we have a solution to meet your requirements.

Reliability and ease of use are top priorities in the development of our controllers!

NTLog Basic for Nabertherm controller: recording of firing data with USB-flash drive

Freeware NTEdit for convenient program input via Excel™ for MS Windows™ on the PC

Freeware NTGraph for evaluation and documentation of firings using Excel™ for MS Windows™ on the PC

MyNabertherm app for online monitoring of the firing can be downloaded on mobile devices free of charge

Controller can be switched to “Solar Mode” to take advantage of electricity from PV systems with and without battery

Optimized insulation construction for a perfect balance between the best possible energy consumption and short cycle times

Nabertherm Controllers Series 500

The controller series 500 impresses with its unique scope of performance and intuitive operation. In combination with the free "MyNabertherm" smartphone app, monitoring your furnace is even easier and more powerful than ever before. The operation and programming takes place via a high-contrast, large touch panel, which shows exactly the information that is relevant at the moment.

"I was immediately able to work intuitively with the controller."

Samet can Alis
sametcanalis.com

Standard equipment

- Transparent, graphical display of temperature curves
- Clear presentation of firing data
- 24 operating languages selectable
- Consistent, attractive design
- Easily understandable symbols for many functions
- Precise and accurate temperature control
- User levels
- Program status display with estimated end time and date
- Documentation of firing curves on USB storage medium in .csv file format
- Service information can be read out via a USB stick
- Clear presentation
- Plain text display
- Can be configured for all furnace families
- Can be parameterized for different firings
- "Solar Mode" to utilize electricity from photovoltaic systems with and without a battery

Highlights

Modern design

Colored display of temperature curves and firing data

Simple programming

Simple and intuitive program input via touchpanel

Integrated help function

Information on various commands in plain text

Program management

Temperature programs can be saved as favorites and in categories

Segment player

Detailed overview of firing information, including setpoint, actual value and switched functions

Wi-Fi-capable

Connection with the MyNabertherm app

Intuitive touch screen

Easy program input and control

Precise temperature control

User levels

Firing data documentation on USB

The MyNabertherm App
for mobile monitoring of firing progress

Our free MyNabertherm app is the powerful, digital accessory for Nabertherm Series 500 Controllers. Use the app for convenient online progress monitoring of your Nabertherm furnaces – from your office, while on the way or from wherever you wish. The app always keeps you in the picture. Just like the controller itself, the app is also available in 24 languages.

App-functions
- Convenient monitoring of one or more Nabertherm furnaces simultaneously
- Clear presentation as a dashboard
- Individual overview of a furnace
- Active/Inactive furnaces
- Operating status
- Current firing data

Display of program progress for each furnace
- Graphic presentation of the firing progress
- Display of furnace name, program name, segment information
- Start time, program run time, remaining run time
- Display of additional functions such as fresh-air fan, exhaust air flap, etc.
- Operating modes as symbols

Push notifications in case of malfunctions and at program end
- Push notification on the lock screen
- Error messages with description of the malfunction in the individual overview and in a message list

Contacting with service possible
- Stored furnace data facilitate rapid support for you

Requirements
- Connection of the furnace to the Internet via the customer's Wi-Fi
- For mobile devices with Android (from version 9) or IOS (from version 13)

No matter where you are, you always know the status of your firing!

Convenient monitoring of one or more Nabertherm furnaces simultaneously

Display of program progress for each furnace

Easy to contact

Monitoring of Nabertherm furnaces with controller series 500 with touch operation

Any addition of Nabertherm furnaces

Push notifications in case of malfunctions

Clear context menu

Functions of Standard Controllers

	B500	C540	P570
Number of programs	5	10	50
Segments	4	20	40
Extra functions (e.g. fan or automatic flaps) max.	2	2	2 – 6
Maximum number of control zones	1	1	3
Drive of manual zone control	●	●	●
Multiple-zone control			●
Self-optimization	●	●	●
Real-time clock	●	●	●
Graphic color display	●	●	●
Graphical display of temperature curves (program sequence)	●	●	●
Status messages in clear text	●	●	●
Data entry via touchpanel	●	●	●
Entering program names (e.g. “glaze firing”)	●	●	●
Keypad lock	●	●	●
User levels	●	●	●
Skip-button for segment jump	●	●	●
Program entry in steps of 1 °C or 1 min.	●	●	●
Start time configurable (e.g. to use night power rates)	●	●	●
Switch-over °C/°F	●	●	●
kWh meter	●	●	●
Operating hour counter	●	●	●
Set point output	●	●	●
NTLog Basic for Nabertherm Controller: Recording of firing data with a USB flash drive	●	●	●
Malfunction memory	●	●	●
Number of selectable languages	24	24	24
Wi-Fi-capability (“MyNabertherm” app)	●	●	●
Solar mode	●	●	●

● Standard

Unique Range of Features.

Supply voltages for Nabertherm furnaces

The connected load in the catalog refer to the standard furnace with 400 V (3/N/PE) or 230 V (1/N/PE).
Other supply voltages on request.

Which Controller For Which Furnace?

	Top	Top .. R	HO	N .. - N .. H	NW .. - NW .. H	N .. E	GF	GFM	F	MF 5
Catalog page	14	16	18	24 - 26	28 - 30	32 - 34	44	46	48	50
Controller										
B500	●	●	●	●	●	●				
C540	○	○	○	○	○	○	●	●	●	●
P570				○	○	○	○	○		○

● Standard
○ Option

Chamber kiln N 200

Toploader Top 100

NTGraph and NTEdit
firing data storage and program input via PC

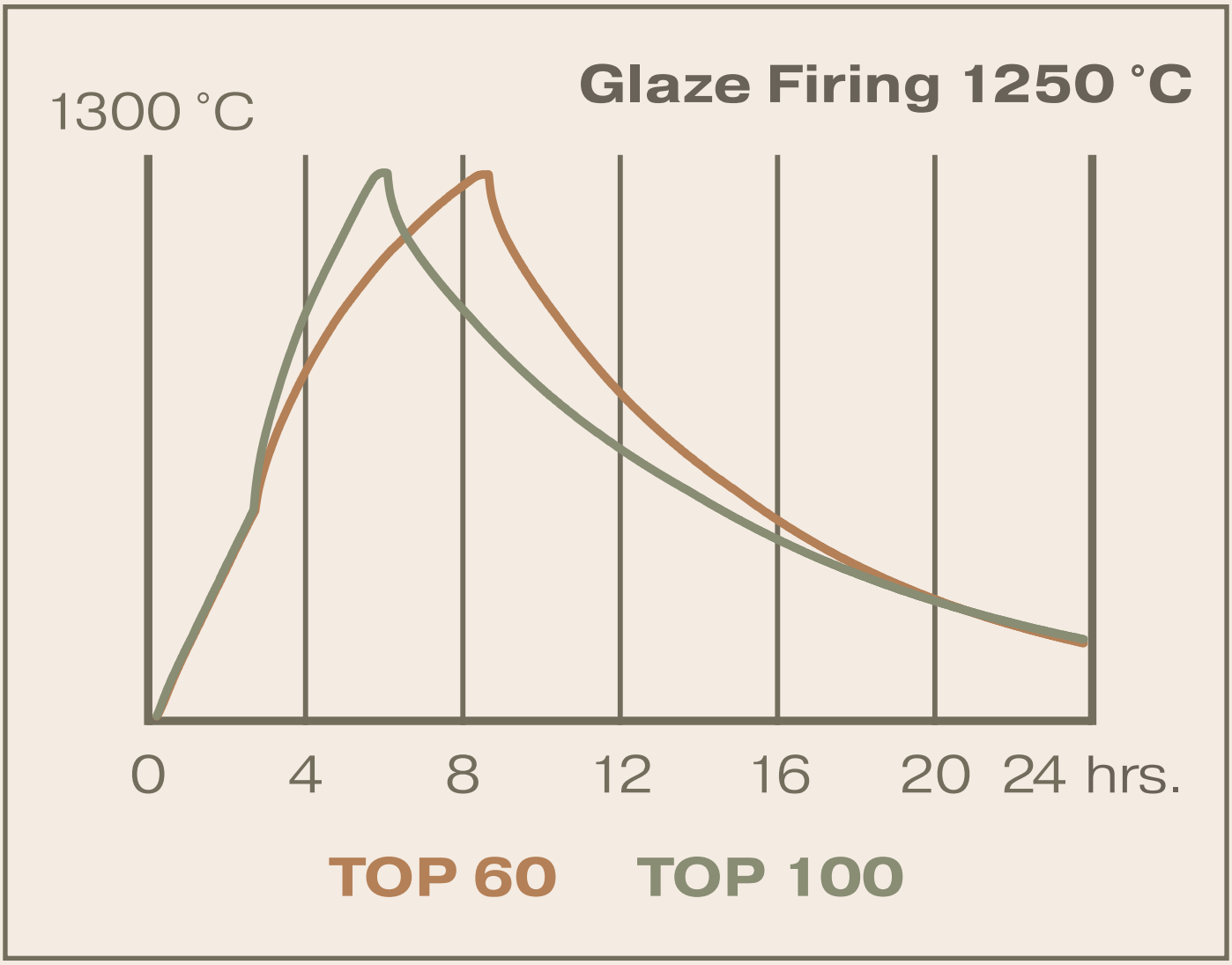
There are various options for evaluation and program input the firings for optimal firing data documentation and firing data storage. The following options are suitable for data storage when using the standard controllers.

Data storing of Nabertherm controllers with NTLog Basic
NTLog Basic allows for recording of firing data of the connected Nabertherm Controller (B500, C540, P570) on a USB stick. The firing data documentation with NTLog Basic requires no additional thermocouples or sensors. Only data recorded which are available in the controller. The data stored on the USB stick (up to 130.000 data records, format CSV) can afterwards be evaluated on the PC either via NTGraph or a spreadsheet software used by the customer (e.g. Excel™ for MS Windows™). For protection against accidental data manipulation the generated data records contain checksums.

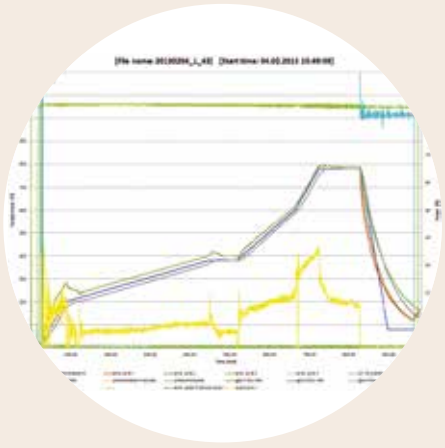
Visualization with NTGraph for MS Windows™ for single-zone controlled furnaces
The firing data from NTLog can be visualized either using the customer‘s own spreadsheet program (e.g. Excel™ for MS Windows™) or NTGraph for MS WindowsTM (Freeware). With NTGraph Nabertherm provides for an additional user-friendly tool free of charge for the visualization of the data generated by NTLog.

Prerequisite for its use is the installation of the program Excel™ for MS Windows™ (from version 2003). After data import presentation as diagram, table or report can be chosen. The design (color, scaling, reference labels) can be adapted by using prepared sets. NTGraph is available in eight languages (DE/EN/FR/ES/IT/CN/RU/PT). In addition, selected texts can be generated in other languages.

Software NTEdit for MS Windows™ for entering programs on the PC
By using the software NTEdit for MS Windows™ (Freeware) the input of the programs becomes clearer and thus easier. The program can be entered on customers PC and then be imported into the controller (B500, C540, P570) with a USB stick. The display of the set curve is tabular or graphical. The program import in NTEdit is also possible. With NTEdit Nabertherm provides a user-friendly free tool. A prerequisite for the use is the client installation of Excel™ for MS Windows™ (from version 2007). NTEdit is available in eight languages (DE/EN/FR/ES/IT/CN/RU/PT).



Example curve of a glaze firing



NTGraph, a freeware for the easy-to-read analysis of recorded data using Excel™ for MS Windows™

Recording of firing data of the connected controller via USB stick

Firing data input via NTEdit software (freeware) for MS Windows™

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