

Dental



Furnaces and Accessories

Sintering Furnaces for Zirconia
Translucent Zirconia
CoCr Alloys
CAD/CAM Systems
Burnout Furnaces
Laser Sintering
Model Casting
Production Furnaces

■ Made■ in■ Germany





Made in Germany

Nabertherm with 400 employees worldwide have been developing and producing industrial furnaces for many different applications for over 60 years. As a manufacturer, Nabertherm offers the widest and deepest range of furnaces worldwide. 150,000 satisfied customers in more than 100 countries offer proof of our commitment to excellent design, quality and cost efficiency. Short delivery times are ensured due to our complete inhouse production and our wide variety of standard furnaces.

Setting Standards in Quality and Reliability

Nabertherm does not only offer the widest range of standard furnaces. Professional engineering in combination with inhouse manufactoring provide for individual project planning and construction of tailor-made thermal process plants with material handling and charging systems. Complete thermal processes are realized by customized system solutions.

Innovative Nabertherm control technology provides for precise control as well as full documentation and remote monitoring of your processes. Our engineers apply state-of-the-art technology to improve the temperature uniformity, energy efficiency, reliability and durability of our systems with the goal of enhancing your competitive edge.

Global Sales and Service Network — Close to you

Centralized engineering and manufacturing and decentralized sales and service define our strategy to live up to your needs. Long term sales and distribution partners in all important world markets ensure individual on-site customer service and consultation. There are various reference customers in your neighborhood who have similar furnaces or plants.



Large Customer Test Center

What furnace is the right choice for this specific process? This question cannot always be answered easily. Therefore, we have set up our modern test center which is unique in respect to size and variety. A representative number of furnaces is available for tests for our customers.

Customer Service and Spare Parts

Our professional service engineers are available for you world-wide. Due to our complete inhouse production, we can despatch most spare parts from stock over night or produce with short delivery time.

Experience in Many Fields of Thermal Processing

In addition to furnaces for laboratory, Nabertherm offers a wide range of standard furnaces and plants for many other thermal processing applications. Taking into consideration the constraints of our operating instructions the modular design of our products provides for customized solutions to your individual needs without expensive modifications.



MORE THAN HEAT 30-3000 °C

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High-Temperature Chamber Furnace up to 1650 °C suitable for Sintering Translucent Zirconia

LHT 03/17 D

The first-class workmanship using high-quality materials combined with ease of operation makes this model an all-rounder for the dental laboratory. This high-temperature chamber furnace is perfectly suited for the sintering of translucent zirconia units. The special molybdenum-discilicide heating elements offer best possible protection against chemical interaction between charge and heating elements. When using liquid shading colors it must be ensured that the charge has been fully dried before starting the sintering process.

The zirconia units are positioned in ceramic saggars. Up to three saggars can be stacked into the furnace.





Charge saggar, starter-set

Over-temperature limiter

- Tmax 1650 °C
- Special, high-quality heating elements made of molybdenum disilicide offer best possible protection against chemical interaction between charge and heating elements
- Furnace chamber lined with first-class, durable fiber material
- Housing made of sheets of textured stainless steel
- Dual shell housing with additional fan cooling for low surface temperature
- Compact design with lift door, opening upwards
- Adjustable air inlet
- Exhaust air opening in the roof
- Precise temperature control, also in the lower temperature range for drying
- Switching system with phase-angle firing thyristors (SCRs)
- Delivery incl. starter set to charge the zirconia works
- Applications only allowed within constraints of operating instructions
- Controls description see page 14

- Over-temperature limiter with manual reset for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load
- Saggar for charging of up to three layers see page 12
- Process control and documentation with Controltherm MV software package see page 15
- Protective gas connection for non-flammable protective or reaction gases
- Manual or automatic gas supply system

Model	Tmax	Inner d	imensions	in mm	Volume	Outer	dimensio	ons in mm	Connected	Electrical	Weight	Minutes
	°C	w	d	h	in I	W	D	H ²	load kW	connection*	in kg	to Tmax1
LHT 03/17 D	1650	135	155	200	2	470	620	770+260	3.0	1-phase	75	60

^{*}These furnaces are available for main voltage of 110 V - 120 V resp. 200 V - 240 V, 1/N/PE or 2/PE

¹If connected at 230 V 1/N/PE

²Including opened lift door



High-Temperature Lift-Bottom Furnace up to 1650 °C for Sintering of Translucent Zirconia with Integrated Speed Cooling System

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LHT 02/17 LB Speed with rapid cooling function

LHT 02/17 LB Speed

Due to its maximum temperature of 1650 °C this model is perfectly suited for sintering of translucent zirconia. The electrically driven lift-bottom provides for easy charging. The heating all around the cylindrical furnace chamber provides for a good temperature uniformity.

By using special heating elements made of molydenum disilicide crowns and bridges are protected against chemical contamination at the best. When using liquid shading colors it must be ensured that the charge has been fully dried before starting the sintering process. The charge will be placed in saggars made of technical ceramics. Up to three saggars on top of each other guarantee high productivity.

Model LHT 02/17 LB Speed is additionally equipped with rapid cooling device. The table automatically opens stepwise for faster cooling. Depending on the charge and the type of saggars process times shorter than two hours can be realized.

- Tmax 1650 °C
- Special, high-quality heating elements made of molybdenum disilicide offer best possible protection against chemical interaction between charge and heating elements
- Furnace chamber lined with first-class, durable fiber materials
- Outstanding temperature uniformity due to all-round furnace chamber heating
- Furnace chamber with a volume of 2 liters, table with large floor space
- Electric screw drive with push button operation, automatic opening of Speed model for cooling possible
- Housing made of sheets of textured stainless steel
- Exhaust air vent in the roof
- Speed model with drying function. When starting the program the table will be driven in drying position and closes automatically at 500 °C
- Delivery incl. starter set to charge the zirconia works
- Applications only allowed within constraints of operating instructions
- Controls description see page 14

- Over-temperature limiter with manual reset for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load
- Saggar for charging of up to three layers see page 12
- Process control and documentation with Controltherm MV software package see page 15

Model	Tmax	Inner dimen	isions in mm	Volume	Outer d	imension	s in mm	Connected	Electrical	Weight	Minutes
	°C	Ø	h	in I	W	D	Н	load kW	connection*	in kg	to Tmax
LHT 02/17 LB Speed	1650	Ø 120	130	2	540	610	740	3.3	1-phase	85	80

^{*}These furnaces are available for main voltage of 110 V - 120 V resp. 200 V - 240 V, 1/N/PE or 2/PE



Automated table lowering for cooling



Charge saggar, starter-set

¹If connected at 230 V 1/N/PE

High-Temperature Furnace with SiC Rod Heating for Sintering Zirconia up to 1550 °C





HTCT 01/16



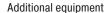
HTCT 01/16

Designed as table model with SiC heating rods, this model offers numerous advantages when sintering zirconia. The large heating chamber and fast heating-up times make this model a good selection for the CAD/CAM processing of zirconia. The furnace controller can be freely programmed for the individual sintering of the zirconia material. The model HTCT 01/16 is moreover designed for connection to the single-phase mains supply. When using liquid shading colors it must be ensured that the charge has been fully dried before starting the sintering process.



Furnace chamber with high-quality fiber materials and SiC heating rods on both sides of the furnace

- Tmax 1550 °C
- Working temperature 1500 °C, increased wear and tear of heating elements must be expected in case of working at higher temperatures
- Single-phase connection
- High-quality fiber material, selected for the working temperature
- Housing made of sheets of textured stainless steel
- Dual shell housing for low external temperatures and high stability
- Adjustable air inlet integrated in the door
- Switching system with solid-state-relays, power tuned to the SiC rods
- Easy replacement of heating rods
- Applications only allowed within constraints of operating instructions
- Controls description see page 14



- Over-temperature limiter with manual reset for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load
- Square saggar for charging of up to three layers see page 12
- Lid for top saggar



Over-temperature limiter

Saggars with top lid

Model	Tmax	Inner d	mensions	s in mm	Volume	Outer	dimensio	ns in mm	Connected	Electrical	Weight	Minutes
	°C	W	d	h	in I	W	D	H ¹	load kW	connection*	in kg	to Tmax ²
HTCT 01/16	1550	110	120	120	1,5	340	300	460 + 195	3.5	1-phase	18	40

^{*}These furnaces are available for main voltage of 110 V - 120 V resp. 200 V - 240 V, 1/N/PE or 2/PE

¹Including opened lift door

²If connected at 230 V 1/N/PE

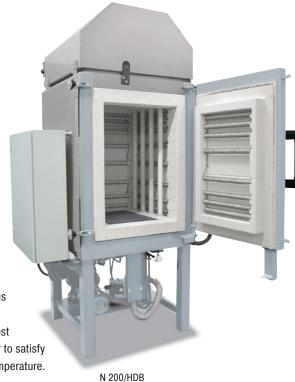


Production Furnaces for Debinding, Presintering or for Sintering



In addition to the furnaces shown for sintering in laboratory scale, Nabertherm also offers numerous solutions for production. For the production of zirconia blanks there are e.g. production plants that initially provide for the debinding followed by the presintering of the product. In these plants, highest precision with regard to temperature uniformity and reproducibility is of utmost importance in order to satisfy the requirements on the blank with respect to shrinkage and compliance with the later sintering temperature.

For the full sintering of milled crowns and bridges in production scale, Nabertherm offers high-temperature furnaces having a considerably larger capacity than the laboratory furnaces shown here. In this connection, please ask for our special "Advanced Materials" catalog.



Furnaces for Annealing after Laser Sintering



N 11/H with protective gas box

For the annealing of frameworks made of cobalt-chromium after laser sintering the chamber furnaces N 7/H - N 61/H are used. As an extra these furnaces will be equipped with a gax-box as well as an automatic gas-supply system for one non-flammable protective gas, e.g. Argon. Depending on the lay-out working temperatures of 1100 °C are possible. Applications only allowed within the constraints of operating instructions. Please ask for our catalog "Thermal Process Technology".



N 41/H with protective gas box

Burnout Furnaces for Burn-Out of Muffles and Speed Investment Material





L 5/11



Adjustable air inlet integrated in the door

L 1/12 - LT 15/12

These burnout furnaces are the perfect choice for daily work in the dental laboratory. These furnaces stand for excellent workmanship, advanced, attractive design and highest level of reliability. They are perfectly suitable for burnout of muffles and also for speed investments. These furnaces come equipped with either a flap door or lift door at no extra charge. Furnaces L 3/11 - LT 15/12 come with a fiber insulation for 1100 °C or 1200 °C.

- Tmax 1100 °C or 1200 °C
- Heating from two sides by ceramic heating plates
- Ceramic heating plates with integral heating element which is safeguarded against fumes and splashing, and easy to replace
- Highly durable cured vacuum fiber module lining
- Housing made of sheets of textured stainless steel
- Dual shell housing for low external temperatures and high stability
- Optional flap door (L) which can be used as work platform or lift door (LT) with hot surface facing away from the operator
- Adjustable air inlet integrated in door (see illustration)
- Exhaust air outlet in rear wall of furnace
- Solid state relays provide for low-noise operation
- For maximum number of chargeable muffles in the furnace models see page 15
- Applications only allowed within constraints of operating instructions
- Controls description see page 14

- Chimney, chimney with fan or catalytic converter (not for L 1). For burn-out of muffles and speed investment materials we recommend the use of a catalyst.
- Over-temperature limiter with manual reset for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load









- Protective gas connection for non-flammable protective or reaction gases
- Manual or automatic gas supply system
- Please see page 13 for more accessories
- Process control and documentation with Controltherm MV software package see page 15



L(T) 3/..



L(T) 5/..



L(T) 9/..

Maximum Chargeable Number of Burnout Muffles see Page 15

Model	Tmax	Inner d	imensions	s in mm	Volume	Outer	dimension	ns in mm	Connected	Electrical	Weight	Minutes
	°C	W	d	h	in I	W	D	H¹	load kW	connection*	in kg	to Tmax ²
L, LT 3/11	1100	160	140	100	3	380	370	420	1.2	1-phase	20	60
L, LT 5/11	1100	200	170	130	5	440	470	520	2.4	1-phase	35	60
L, LT 9/11	1100	230	240	170	9	480	550	570	3.0	1-phase	45	75
L, LT 15/11	1100	230	340	170	15	480	650	570	3.5	1-phase	55	90
L 1/12	1200	90	115	110	1	250	265	340	1.5	1-phase	10	25
L, LT 3/12	1200	160	140	100	3	380	370	420	1.2	1-phase	20	75
L, LT 5/12	1200	200	170	130	5	440	470	520	2.4	1-phase	35	75
L, LT 9/12	1200	230	240	170	9	480	550	570	3.0	1-phase	45	90
L, LT 15/12	1200	230	340	170	15	480	650	570	3.5	1-phase	55	105

^{*}These furnaces are available for main voltage of 110 V - 120 V resp. 200 V - 240 V, 1/N/PE or 2/PE



L 5/11 with gas supply system

¹Including opened lift door ²If connected at 230 V 1/N/PE

Compact Burnout Furnaces





MODET THAT HEAT 20 200 TO

LE 4/11

LE 1/11 - LE 14/11

With their unbeatable price/performance ratio, these compact burnout furnaces are perfect for burnout in the dental laboratory. They convince by very fast possible heating ramps and attractive design. Quality features like the dual shell housing of stainless steel, their compact, lightweight design, or the heating elements installed in quartz glass tubes make these models a reliable partner for your dental application.

- Tmax 1100 °C, working temperature 1050 °C
- Heating from two sides from heating elements in quartz glass tubes
- Maintenance-friendly replacement of heating elements and insulation
- Multi-layer insulation with fiber plates in the furnace chamber
- Housing made of sheets of textured stainless steel
- Dual shell housing for low external temperatures and high stability
- Flap door which can also be used as a work platform
- Exhaust air outlet in rear wall
- Solid state relays provide for low-noise operation
- Compact dimensions and light weight
- Controller mounted in side space (under the door on the LE 1/11, LE 2/11 and LE 4/11 to save space)
- For maximum number of chargeable muffles in the furnace models see page 15
- Applications only allowed within constraints of operating instructions
- Controls description see page 14



Maximum chargeable number of burnout muffles see page 15

MH30

Over-temperature limiter

- Chimney, chimney with fan or catalytic converter (not for LE 1 LE 4). For burn-out of muffles and speed investment materials we recommend the use of a catalyst.
- Over-temperature limiter with manual reset for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load
- Protective gas connection for non-flammable protective or reaction gases
- Manual gas supply system
- Please see page 13 for more accessories
- Process control and documentation with Controltherm MV software package see page 15

N	lodel		nax	Inner d	imensions	in mm	Volume	Outer o	imension	s in mm	Connected	Electrical	Weight	Minutes
)°(C	W	d	h	in I	W	D	Н	load kW	connection*	in kg	to Tmax1
L	E 1/11	110	00	90	115	110	1	250	265	340	1,5	1-phase	10	10
L	E 2/1	1 110	00	110	180	110	2	275	380	350	1.8	1-phase	10	25
L	E 4/1	1 110	00	170	200	170	4	335	400	410	1.8	1-phase	15	35
L	E 6/1	1 110	00	170	200	170	6	510	400	320	1.8	1-phase	18	35
L	E 14/1	1 110	00	220	300	220	14	555	500	370	2.9	1-phase	25	40

^{*}These furnaces are available for main voltage of 110 V - 120 V resp. 200 V - 240 V, 1/N/PE or 2/PE

¹If connected at 230 V 1/N/PE



Burnout Furnaces with Brick Insulation



N 7/H as table-top model

N 7/H - N 17/HR

With their brick insulation and the robust table-top design, furnaces N 7/H - N 17/HR are the workhorses for the daily use in the dental laboratory. Heating elements in both sides and the bottom provide for excellent temperature uniformity even if the furnace is fully charged. The furnaces can be used for the burnout of muffles or for speed investments.

- Tmax 1280 °C
- Three-sided heating from both sides and the bottom
- Heating elements protected in grooves
- Bottom heating protected by heat-resistant SiC plate
- Multi-layer insulation with high-quality lightweight refractory bricks in the furnace chamber
- Exhaust opening in the side of the furnace
- Parallel swinging door which opens downward, or upward upon request
- For maximum number of chargeable muffles in the furnace models see page 15
- Applications only allowed within constraints of operating instructions
- Control description see page14

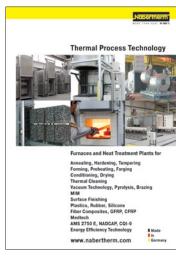
- Chimney, chimney with fan or catalytic converter
- Over-temperature limiter with manual reset for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load
- Protective gas connection for non-flammable protective or reaction gases
- Manual or automatic gas supply system
- Please see page 13 for more accessories

Model	Tmax °C	Inner d w	imensions d	s in mm h	Volume in I	Outer d W	limension D	s in mm H	Connected load kW	Electrical connection*	Weight in kg	Minutes to Tmax ²
N 7/H	1280	250	250	120	7	720	640	510	3,0	1-phase	60	180
N 11/H	1280	250	350	140	11	720	740	510	3,6	1-phase	70	180
N 11/HR	1280	250	350	140	11	720	740	510	5,5	3-phase ¹	70	120
N 17/HR	1280	250	500	140	17	720	890	510	6,4	3-phase ¹	90	120

^{*}These furnaces are available for main voltage of 110 V - 120 V resp. 200 V - 240 V, 1/N/PE or 2/PE



Maximum chargeable number of burnout muffles see page 15



¹Heating only between two phases

²If connected at 230 V 1/N/PE

Accessories for Sintering Furnaces



Starter-Set, Ø 115 mm Article No.: 699001066



Sintering Dish, Ø 115 mm Article No.: 699001054



Spacer Ring with Ventilation OpeningsArticle No.: 699001055

Charge Saggars for Sintering Furnaces LHT 02/17 LB Speed and LHT 03/17 D

For charging zirconia workpieces charge saggars are recommended. A saggar basically consists of the sintering dish as base and the spacer ring with ventilation openings. The material is highly resistant to temperature fluctuations and can be used for processes with short heat-up and cool-down times.

When charging the furnace it must be ensured that the lower charge carrier is generally resting on the spacer ring. This provides for air-circulation under this carrier and improves the temperature uniformity. It is recommended to cover upper saggar with another sintering dish as lid.

The starter set consists of a charge saggar, a spacer ring as a base and a second sintering dish as lid. The use of additional saggars (sintering dish and spacer ring) allows charging on additional levels. Both furnace models are designed to get charged with up to three charge saggars.



- 1 level: Starter set which includes 2 sintering dishes and 2 spacer rings
- 2 levels: Starter set + 1 sintering dish + 1 spacer ring
- 3 levels: Starter set + 2 sintering dishes + 2 spacer rings



Safe charging on up to three levels



Charge Saggar, 110 x 75 x 30 mm Article No.: 699000279



Lid for Charge Saggar Article No.: 699000985



Safe charging on up to three levels

Charge Saggar for Sintering Furnace HTCT 01/16

Placing the zirconia product in charge saggars provides for optimum utilization of the furnace chamber. Up to three saggars can be stacked in the furnace HTCT 01/16. The integrated air slots ensure a better air circulation of the charge. The upper saggar can be closed with a separate ceramic lid.

Note: The accessories described above are designed for cold charging and discharging. Removing the accessories in hot condition is not possible.



Accessories for Preheating Furnaces







Article No.: 631000812

Chimney with fan, to remove exhaust gas from the furnace better. The P 330 controller can be used to activate the fan automatically (not for models L(T) 15.., L 1/12, LE 1/11, LE 2/11, LE 4/11).*



Article No.: 631000166

Catalytic converter with fan for removal of organic components from the exhaust air. Organic components are catalytically oxidized at about 600 °C, broken into carbon dioxide and water vapour. Irritating odors are thus largely eliminated. The P 330 controller can be used to switch the catalytic converter automatically (not for models L(T) 15.., L 1/12, LE 1/11, LE 2/11, LE 4/11).*

Select between different bottom plates and collecting pans for protection of the furnace and easy loading (for models L, LT and LE on pages 8 - 10).



Ceramic ribbed plate, Tmax 1200 °C



Ceramic collecting pan, Tmax 1300 °C



Steel collecting pan, Tmax 1100 °C

For models	Ceramio	ribbed plate	Ceramic (collecting pan	Steel collecting p	oan (Material 1.4828)
	Articel No.	Dimensions in mm	Articel No.	Dimensions in mm	Articel No.	Dimensions in mm
L 1, LE 1	691601835	110 x 90 x 12,7	-	-	691404623	85 x 100 x 20
LE 2	691601097	170 x 110 x 12,7	691601099	100 x 160 x 10	691402096	110 x 170 x 20
L 3, LT 3	691600507	150 x 140 x 12,7	691600510	150 x 140 x 20	691400145	150 x 140 x 20
LE 4, LE 6, L 5, LT 5	691600508	190 x 170 x 12,7	691600511	190 x 170 x 20	691400146	190 x 170 x 20
L 9, LT 9, N 7	691600509	240 x 220 x 12,7	691600512	240 x 220 x 20	691400147	240 x 220 x 20
LE 14	691601098	210 x 290 x 12,7	-	-	691402097	210 x 290 x 20
L 15, LT 15, N 11	691600506	340 x 220 x 12,7	-	-	691400149	230 x 330 x 20

Article No.:

491041101

General Accessories

Heat-resistant gloves for protection of the operator when loading or removing hot materials, resistant to 650 °C or 700 °C.



Article No.: 493000004

Gloves, Tmax 650 °C.



Gloves, Tmax 700 °C.



Article No.: 493000002 (300 mm) 493000003 (500 mm)

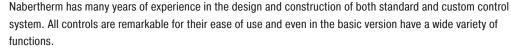
Various **tongs** for easy loading and unloading of the furnace.

^{*} Note: If other controller types are used an adapter cable for connection to mains supply has to be ordered separately. The device will be activated by plugging in the socket.

Process Control and Documentation



B 180

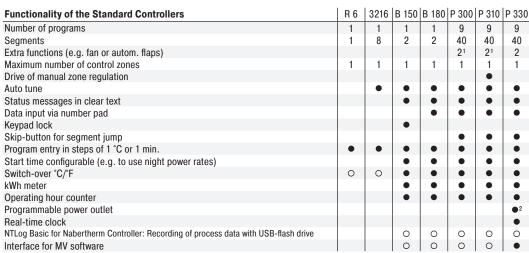




P 330



P 300



- Standard
- O Option
- ¹ As an extra feature in air circulation furnaces
- ² Not for model L(T)15...



NTLog Basic for data recording of Nabertherm Controllers

Documentation of Nabertherm Controller - Extension Module NTLog/NTGraph Basic

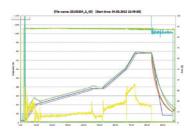
The extension module NTLog Basic is an economical way to record process data using the respective Nabertherm Controllers (P 300/310/330, B 130/150/180, C 280, all from version 3.0) on a USB stick. For this purpose the controller is enhanced with an intelligent interface adapter to accommodate a USB stick.

The process documentation with NTLog Basic requires no additional thermocouples or sensors. Only data recorded which are available in the controller via the control thermocouple (difference instead of real-time, program segment no., temperature setpoint, temperature actual value, control function 1, control function 2) is recorded.

The data stored on the USB stick (up to 16,000 data records, format CSV) can afterwards be evaluated on the PC either via NTGraph or a spreadsheet software used by the customer (e.g. MS Excel). Process data is stored with a differential time and not with an absolute time stamp. Charge data, start time and start date are assigned later (e.g. in the spreadsheet software or with the file name) by the operator at the PC.

For protection against accidental data manipulation the generated data records contain checksums. A retrofit of NTLog Basic on existing controllers can be done with a retrofit kit including a manual.





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

Process Data from NTLog

The process data from NTLog can be presented either using the customer's own spreadsheet program (e.g. MS Excel) or NTGraph. With NTGraph Nabertherm provides for a 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 MS Excel (version 2003/2010/2013). After data import presentation as diagram, table or report can be chosen. The design (color, scaling, reference labels) can be adapted by using eight prepared sets.

NTGraph is available in seven languages (DE/EN/FR/SP/IT/CH/RU). In addition, selected texts can be generated in other languages.



MORE THAN HEAT 30-3000 °C

Controltherm MV Software for Control, Visualisation and Documentation

Documentation and reproducibility gain increased attention with steadily rising quality standards. The powerful Nabertherm software Controltherm MV provides for an optimum solution for the control and documentation of one or more furnaces as well as charge data on basis of Nabertherm controllers.

In the basic version one furnace can be connected to the MV-software. The system can be extended to four, eight or even 16 multi-zone controlled furnaces. Up to 400 different heat treatment programs can be stored. The process will be documented and filed. Process data can be read-out graphically or in table format. A data transfer to MS-Excel is also possible.

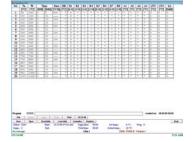
For furnaces which are not controlled via a Nabertherm controller, the furnace temperature can be documented with the MV-software. We deliver an extension package as optional equipment. With respect to the individual version, three, six or even nine independent thermocouples can be connected. Independent of the control system, the values of each thermocouple will be read-out and evaluated by the MV-software.



Controltherm MV Software for Control, Visualisation and Documentation

Features

- Simple installation without specific knowledge
- Suitable for PC with operating system Microsoft Windows 7 (32 Bit), Vista (32 Bit), XP with SP3, 2000, NT4.0, Me 98
- All Nabertherm controllers with interface connectable
- Manipulation protected storage of temperature curves of up to one, four, eight or 16 furnaces (also multizone-controlled), depending on the version of MV-software
- Redundant storage on a network server possible
- Programming, archiving and printing of programs and graphics
- Free input of descriptive charge data text with comfortable search function
- Data exportable into Excel format for further evaluation
- Start/stop of the controller from the local PC (only with Nabertherm controllers mit interface)
- Selectable languages: German, English, French, Italian or Spanish
- 400 additional programs storable (only with Nabertherm controllers with interface)



Data input in table format if used together with Nabertherm controllers

Maximum Chargeable Number of Burnout Muffles

The table below indicates the maximum number of burnout out muffles that can be charged in our different muffle furnaces.







L(T) 3/	L(T) 5/	L(T) 9/

Model		Muffle	e type	
	Size 1 x (Ø 37 mm)	Size 3 x (Ø 55 mm)	Size 6 x (Ø 72 mm)	Size 9 x (Ø 88 mm)
LE 1	6	4	1	1
LE 2	8	6	2	2
LE 4	20	9	4	2
LE 6	20	9	4	2
LE 14	35	20	12	6
L 1	6	4	1	1
L 3	12	6	2	2
L 5	20	9	4	2-3
L 9	36	16	9	4
L 15	54	24	12	6

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Graphical display of set and actual temperature curve

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