YOUR

TO

SUCCESS

HIGH TEMPERATURE CHAMBER FURNACES

Nabertherm®

...therm®

Successful high temperature applications in the laboratory and in production depend on the right furnace to a large extent.
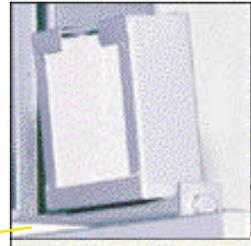
With the high temperature chamber furnaces from Nabertherm, you have the right key to challenging processes in your hands – regardless of whether for 1600, 1750 or 1800 °C.

The **Supertherm® HT 04/.. to HT 450/..** can be supplied with useful volumes from 4 to 450 litres and are convincing through their compact design with high performance and especially high reliability.
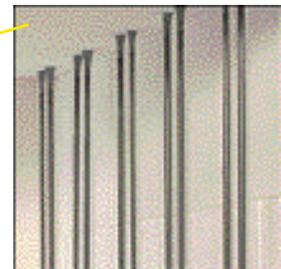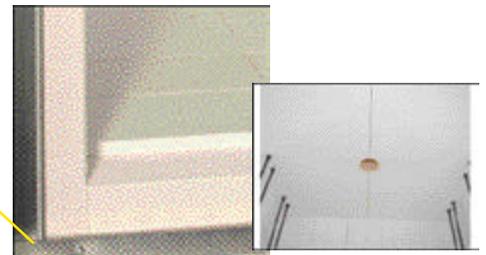
A CONCEPT THAT FITS.

As an option: Automatic exhaust air damper for better venting ...
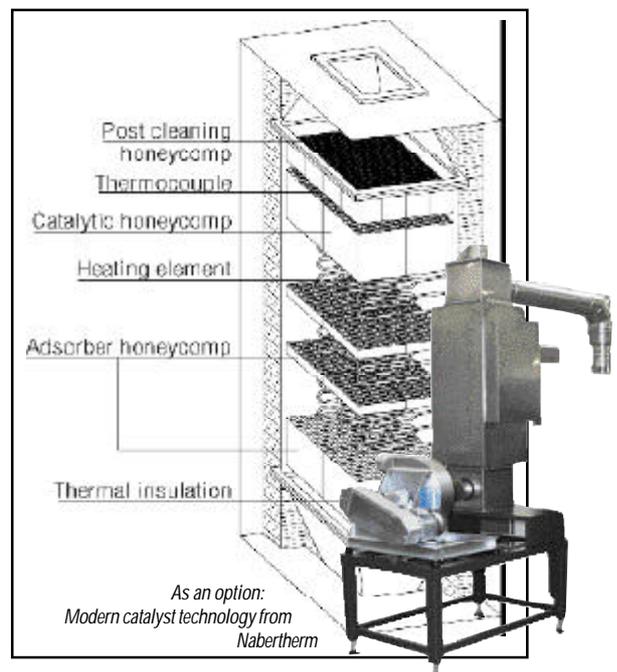
Kanthal-Super heating elements...

High quality Al_2O_3-fibre insulation with self-supporting structure of the ceiling...

Supertherm HT 160/17

As an option: Bottom reinforcement to accept especially heavy charge weights ...

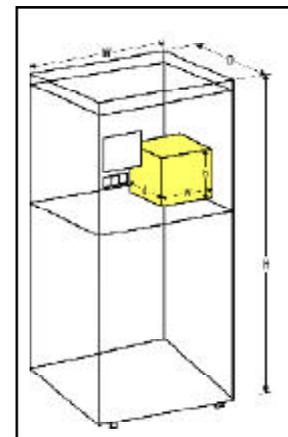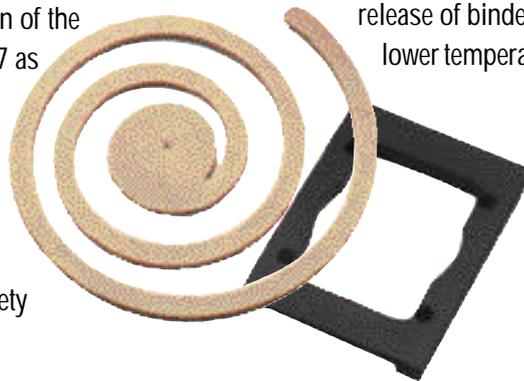As an option: Supply air blower for cooling or with air preheater for debinding...

Post cleaning honeycomp
Thermocouple
Catalytic honeycomp
Heating element
Adsorber honeycomp
Thermal insulation

*As an option:
Modern catalyst technology from Nabertherm*

Features
HT 04/16 - HT 40/18

- High quality Al_2O_3 fibre insulation from Rath and Kanthal-super heating elements ensure rapid heat-up and cool-down times
- Low connected loads
- Very high temperature accuracy
- T_{max} 1600, 1750 or 1800 °C
- Double-walled housing with forced air cooling, resulting in lower outer wall temperatures
- Heating regulated by thyristors, with start-up circuit for the protection of the heating elements from HT 40/17 as well as all HT ../18 models
- Furnace door with parallel guide for opening in hot condition as well
- Manufactured in accordance with all currently applicable safety regulations

For improvement of the processes, all furnaces can be equipped with a series of interesting extras:

- Automatic exhaust air damper for better venting
- Air supply with blower for cooling or debinding
- Bottom reinforcement to accept high charge weights
- Protective gas connection with silicone sealing of the furnace housing
- Catalytic exhaust air cleaning
- Circulating air preheating for release of binders in the lower temperature range

HIGH QUALITY TECHNOLOGY IS THE RIGHT KEY.

Technical Data

Model	T_{max} [°C]	Heat-up time [min] to T_{max}	Inner dimensions [w x d x h]	Litres	Outer dimensions [W x D x H]	Power [kW] max.	Power [kW] Nom	Weight [kg]
HT 04/16		25	150 x 150 x 150	4	610 x 470 x 1400	5	4	120
HT 08/16		25	150 x 300 x 150	8	610 x 610 x 1400	8	6	160
HT 16/16		25	200 x 300 x 260	16	710 x 650 x 1500	12	8	200
HT 32/16		25	200 x 600 x 260	32	710 x 930 x 1550	18	12	350
HT 40/16	1600	40	300 x 350 x 350	40	810 x 710 x 1700	12	9	350
HT 64/16		60	400 x 400 x 400	64	1020 x 840 x 1700	18	14	470
HT 128/16		60	400 x 800 x 400	128	1020 x 1250 x 1750	28	17	900
HT 160/16		40	500 x 550 x 550	160	890 x 1270 x 1900	21	13	890
HT 276/16		60	500 x 1000 x 550	276	890 x 1720 x 1900	36	28	1200
HT 450/16		60	500 x 1150 x 780	450	890 x 1870 x 1900	36	28	1500
HT 04/17		40	150 x 150 x 150	4	610 x 470 x 1400	5	4	120
HT 08/17		40	150 x 300 x 150	8	610 x 610 x 1400	8	6	160
HT 16/17		40	200 x 300 x 260	16	710 x 650 x 1500	12	8	200
HT 32/17		40	200 x 600 x 260	32	710 x 930 x 1550	18	12	350
HT 40/17	1750	60	300 x 350 x 350	40	810 x 710 x 1700	12	9	350
HT 64/17		80	400 x 400 x 400	64	1020 x 840 x 1700	18	14	470
HT 128/17		80	400 x 800 x 400	128	1020 x 1250 x 1750	28	17	900
HT 160/17		80	500 x 550 x 550	160	890 x 1270 x 1900	21	13	890
HT 276/17		80	500 x 1000 x 550	276	890 x 1720 x 1900	36	28	1200
HT 450/17		80	500 x 1150 x 780	450	890 x 1870 x 1900	36	28	1500
HT 04/18		40	150 x 150 x 150	4	610 x 470 x 1400	5	4	120
HT 08/18		40	150 x 300 x 150	8	610 x 610 x 1400	9	7	160
HT 16/18	1800	40	200 x 300 x 260	16	710 x 650 x 1500	12	8	200
HT 32/18		40	200 x 600 x 260	32	710 x 930 x 1550	18	12	350
HT 40/18		60	300 x 350 x 350	40	810 x 710 x 1700	12	9	350

Furnaces in other sizes and for other temperatures on request.

Right reserved to change specification.

Supertherm®

Nabertherm temperature controllers are at the highest level of microprocessor-supported control technology. Thanks to an extensive selection, simple control processes can be controlled just as precisely as challenging applications with the latest software technology.

Program Controller C 42

Program Controller C42

- Simple and clear operation
- 9 programs with 18 individually-programmable segments each
- LCD display with 4 text lines of 20 characters each
- Control of two extra functions
- Automatic timer for programmable start time
- Reproducible control accuracy ± 2 K
- Programmable date and time
- Adjustable control parameters
- Type B thermocouple input
- RS 485 digital interface for connection to a PC
- Nabertherm control software or Eurotherm programmers available on request
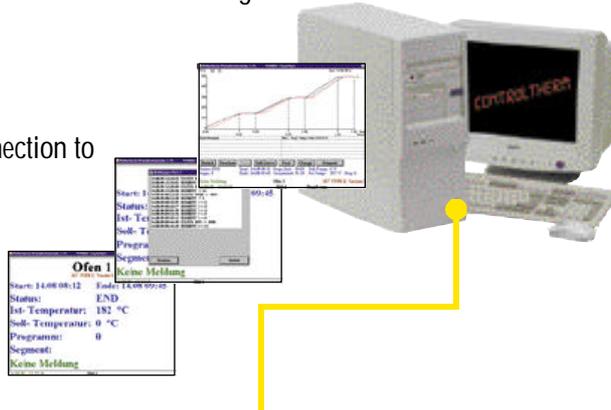- 24-months warranty

IT DEPENDS UPON THE CONTROLLER.

Controltherm® - Software MV1.x - MV16.x

Software for the operation, monitoring and documentation of challenging heat treatment processes.

- Operation, monitoring and documentation of all process data
- Programming of all control processes directly on the PC
- Storage of all process data, resulting in constant product quality and reproducibility
- Online information on all program parameters during a process
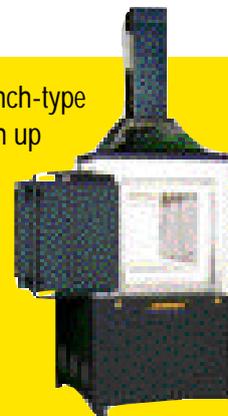- Software extension for 4, 8 or 16 furnaces available with the Nabertherm Program Controller

Controltherm® MVx.1:   *The right software solution for up to 16 furnaces.*

In addition to the furnaces presented here, we also deliver compact bench-type models, chamber furnaces with state-of-the-art lift-top technology with up to 2000 litres useful volume as well as individual solutions based on customer requests.

Just contact us!

Nabertherm®