

# High-temperature Furnaces for Research and Production

| 1600 °C – 1800 °C



1600 °C

1800 °C

**THERM**  **CONCEPT**



**Wide range of applications**

High-temperature furnaces from THERMCONCEPT are developed for a wide range of applications in laboratories and production. They can be used for testing, analysing, sintering and other purposes. Fields of application include chemistry, materials research and technical ceramics. Technical ceramics, for example, are materials with a bright future and enormous growth potential. With our high-temperature furnaces you always have state-of-the-art technology at your disposal.

**Our furnace program**

**The range:**

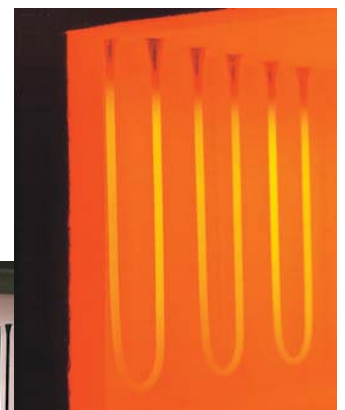
- High-temperature chamber furnaces with capacities from 4 to 400 litres
- For temperature ranges from 1600 °C to 1800 °C
- Heating is performed in all models by the side walls. Additional heating via the rear wall is also available.
- For furnaces with a capacity above 20 litres a base is included as standard
- High-temperature hood furnaces are available on request

**Technical features:**

- Double-lined housing with rear ventilation and fan cooling, hence very low outer wall temperatures, pleasant working conditions
- Outer housing executed as robust and elegant frame
- Inner housing, bottom and front in stainless steel
- Parallel moving door, keeping hot side away from operator
- Furnace insulation made of high-quality fibre materials
- Heating elements made of molybdenum disilicide

**The benefits you gain:**

- Rapid heat-up and cooling
- Low power requirements
- Excellent temperature accuracy
- Best working results



### Control and regulation unit:

- Precise temperature control by thyristors
- Over temperature protection with separate circuit
- Separate thermocouples for furnace temperature control and over temperature protection
- Eurotherm PID controller (other brands are available)

### The options:

- Automatic monitoring of entire process
- Software packages for process visualisation
- Exhaust flaps for better air extraction from furnace
- Automatic cooling system by fan, controlled by programmer
- Protective gas connection
- Reinforced furnace bottom for greater weights



### Technical data \*

Model	T max [°C]	Inside dimensions width x height x depth [mm]	Litres [l]	Power [kW]	Weight [kg]
HTL 04/16		130 x 150 x 170	4	4	90
HTL 10/16		200 x 200 x 250	10	9	120
HTL 20/16		250 x 250 x 310	20	12	220
HTK 30/16		300 x 300 x 320	30	14	340
HTK 40/16		300 x 350 x 350	40	16	360
HTK 64/16	1600	400 x 400 x 400	64	18	460
HTK 100/16		400 x 400 x 600	100	22	800
HTK 160/16		500 x 550 x 550	160	24	900
HTK 250/16		500 x 500 x 1000	250	36	1100
HTK 400/16		500 x 800 x 1000	400	48	1450
HTL 04/17		130 x 150 x 170	4	4	90
HTL 10/17		200 x 200 x 250	10	9	120
HTL 20/17		250 x 250 x 310	20	12	220
HTK 30/17		300 x 300 x 320	30	14	340
HTK 40/17		300 x 350 x 350	40	16	360
HTK 64/17	1750	400 x 400 x 400	64	18	460
HTK 100/17		400 x 400 x 600	100	22	800
HTK 160/17		500 x 550 x 550	160	24	900
HTK 250/17		500 x 500 x 1000	250	36	1100
HTK 400/17		500 x 800 x 1000	400	48	1450
HTL 04/18		130 x 150 x 170	4	4	90
HTL 10/18		200 x 200 x 250	10	9	120
HTL 20/18		250 x 250 x 310	20	12	220
HTK 30/18		300 x 300 x 320	30	14	340
HTK 40/18		300 x 350 x 350	40	16	360
HTK 64/18	1800	400 x 400 x 400	64	18	460
HTK 100/18		400 x 400 x 600	100	22	800
HTK 160/18		500 x 550 x 550	160	24	900
HTK 250/18		500 x 500 x 1000	250	36	1100
HTK 400/18		500 x 800 x 1000	400	48	1450

\* Customised furnaces are available.



Chamber furnace up to 1400 °C



Bogie hearth furnace

### Our product range

THERMCONCEPT is your partner for ceramics and glass. We supply an extensive range of

- electrically and
- gas heated chamber, bogie hearth and hood furnaces for research and production in a temperature range up to 1800 °C.

Ask for our special brochures.

### The benefits you gain

#### Fully developed technology:

THERMCONCEPT furnaces are used in many research and production fields. For our furnaces we use only the best materials from suppliers of international renown. This ensures maximum efficiency, reliability in operation and long service life.

#### Modern design:

In close cooperation with users we design furnaces that fulfil the demands of our customers. Furnace design and production is of outstanding efficiency. Our aim is to provide you with the decisive technical and commercial benefits.

#### Broad range of standard furnaces:

Many requirements can be met with our broad range of standard furnaces. The benefits you gain are proven, fully developed models, excellent value for money and short delivery times.

#### Tailor-made solutions:

Of course, we also supply customised furnaces specially designed to meet your specific applications and requirements. In close cooperation with you, we develop a furnace concept that will solve your demands in a reliable and economical way.

Needless to say, our furnaces and control panels are built in compliance with all relevant safety regulations.

### The value-added

- Proven, reliable products
- Innovative technology
- Top quality
- Excellent value for money

THERMCONCEPT products provide you with greater value for your investment – the key benefit for you. Don't be satisfied with inferior performance. Get in touch with us!

