

# EXPORT RETAIL PRICE LIST

Valid from 03.2020



FEEL GOOD THROUGH THE  
**WARMTH CREATED FROM ELECTRICITY**





Feel Good  
through the warmth  
created from  
**Electricity**



|                                           |           |                                  |            |
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DSM / ECO-  
INTERFACE / ERPPARTIAL STORAGE  
HEATERSSTATIC STORAGE  
HEATER

DIRECT HEATERS

BATH HEATERS

INFRARED  
HEATERSUNDER-FLOOR  
HEATINGNATURAL-STONE  
HEATERSDYNAMIC  
STORAGE HEATERSHOT WATER  
HEATERS

ACCESSORIES

# TECHNOTHERM - Quality assured

Being a midsize family business owned by Lucht LHZ Elektroheizung GmbH & Co. KG, we have a discerning and comprehensive understanding of quality. In this context, it is important for us that you can absolutely rely upon our services.

We develop and manufacture our storage heating and electrical heating systems at a scrupulously high level. Our core range of electrical-heating products are Made-in-Germany. We develop and manufacture them completely and autonomously which also contributes to our success. In the last 31 years, we have established our business on the national and international markets. Now we are represented worldwide by a number of sales offices and dealers based in various countries. To secure compliance with international quality standards, we have implemented our own quality management system at our production factories in Hartmannsdorf and Burgstädt.

Regular internal audits ensure a controlled level and an continuous improvement process. They also ensure a needs based training of our staff. We see this, in turn, as the best pre-requisite for customer satisfaction and for securing our business success.

- **For over 30 years, we have been a leading German Manufacturer of electrical heating products**
- **The highest standards assured in all areas of the business, by our quality control management team**
- **Sucessfully established in both national and international markets**
- **Development and manufacturing in Germany**
- **Innovative solutions for special tasks and a comprehensive product range**



"Your demand is our **passion!**  
**Top-Quality** produced in Germany!"



**Uwe Lucht jun.**  
Managing Director



# THE TECHNOTHERM A - Z SERVICE

QUALITY PRODUCTS AND SERVICES  
FROM GERMANY



Customers profit from our services from inquiry, consulting and planning, up to satisfaction. All LUCHT LHZ electrical room heating technologies are quality products that can only be obtained from certified specialist dealers or partners. This ensures that you receive exactly what you expect: **products with the highest quality standards "Made in Germany".**

- On-site consulting
- Demonstration of concrete advantages and your **savings potential**
- Explanation of the combination with **renewable energies**
- Presentation of life **cycle costs**
- Information about state **funding opportunities**
- Determination of the heat requirement of your property
- Technical planning of your project
- Cost offer delivery of equipment
- Cost offer for ready-to-use installation
- **Specialist planners** for larger projects
- **Warranty and guarantee**
- After-sales service



With the installation of LUCHT LHZ electrical room heating technology, you can already get deep into the topics of environment and energy. Our electric heating technology is not only **at the forefront in terms of technology and quality**. With topics such as:

- **Conservation of resources**
- **energy efficiency**
- **Local emission-free heat**
- **waste avoidance**

We are top class and our customers from over 50 countries of the world appreciate that.

A look at life cycle costs shows that our solutions are **energy and cost efficient**. But we do much more. With LUCHT LHZ space heating technology, we have been following our path for three decades, and quite unwaveringly through all and often contradictory energy strategies of governments and energy companies around the world. We **develop and produce efficient electric heating technology** that can be used with electricity from renewable energy sources such as solar cells. This way, self-sufficient and decentralized electricity production is usefully converted into **thermal energy for buildings**.

People in many countries have no clean air and healthy heat. With LUCHT LHZ electrical heating technology we provide an **important contribution in an uncomplicated and effective manner** to change this for a long time.



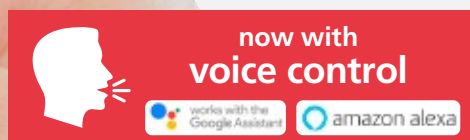
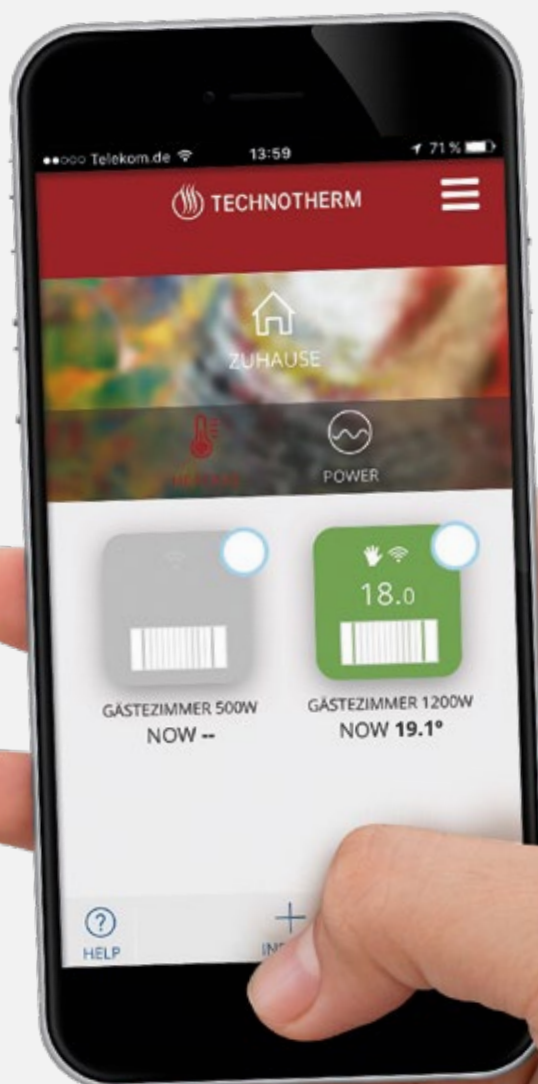
# EVERYTHING IS UNDER CONTROL: THE LHZ APP

FOR ALL **DEVICES** WITH THE **DSM THERMOSTAT**



## WHAT DOES THE APP DO?

- Control and regulate the temperature and operating times in your rooms
- Cost-effective networking of all "DSM" devices without large investments
- Easy installation
- "Out-of-house" function: With only one command, all devices are reduced to individually set temperatures
- Detects open windows and automatically controls the temperature accordingly
- Everything under control: Set individual temperatures and times for each heater
- Automatic function - detects presence and absence and adapts accordingly to your heat requirement
- Self-learning start function: Achieves the set temperature at its desired time (for example, at 6:30 it should be 21 °C warm in the bathroom)
- Voice control with Google: „Hey Google, set the temperature in the kitchen on 21 °C“



Hey Google, set the temperature in the guest room to 21 °C.



Sure, done.  
The temperature in the guest room is just 18 °C.



## CONTROL

- Many heaters in our range are available with the DSM thermostat
- Temperature, day, week program and individual time program
- Daily, monthly and yearly statistics



## DEVICES REQUIRED

- DSM interface
- Heater with DSM thermostat
- Free Technotherm App



More informations at: [www.technotherm.de/smart-home-en.html](http://www.technotherm.de/smart-home-en.html)

# AUGMENTED REALITY: LUCHT LHZ AR APP

VISUALIZE THE TECHNO THERM **PRODUCTS**  
IN A REAL ENVIRONMENT - WITH THE TABLET CAMERA

- **Experience Technotherm products in your home.** With the joint app from Technotherm and Lucht LHZ (the manufacturer behind the Technotherm brand) this is easy and intuitive.
- Let your desired device be displayed simply and free of charge in your rooms with our Augmented Reality App (Lucht LHZ AR). Change the model or the colour and choose without risk according to your taste.



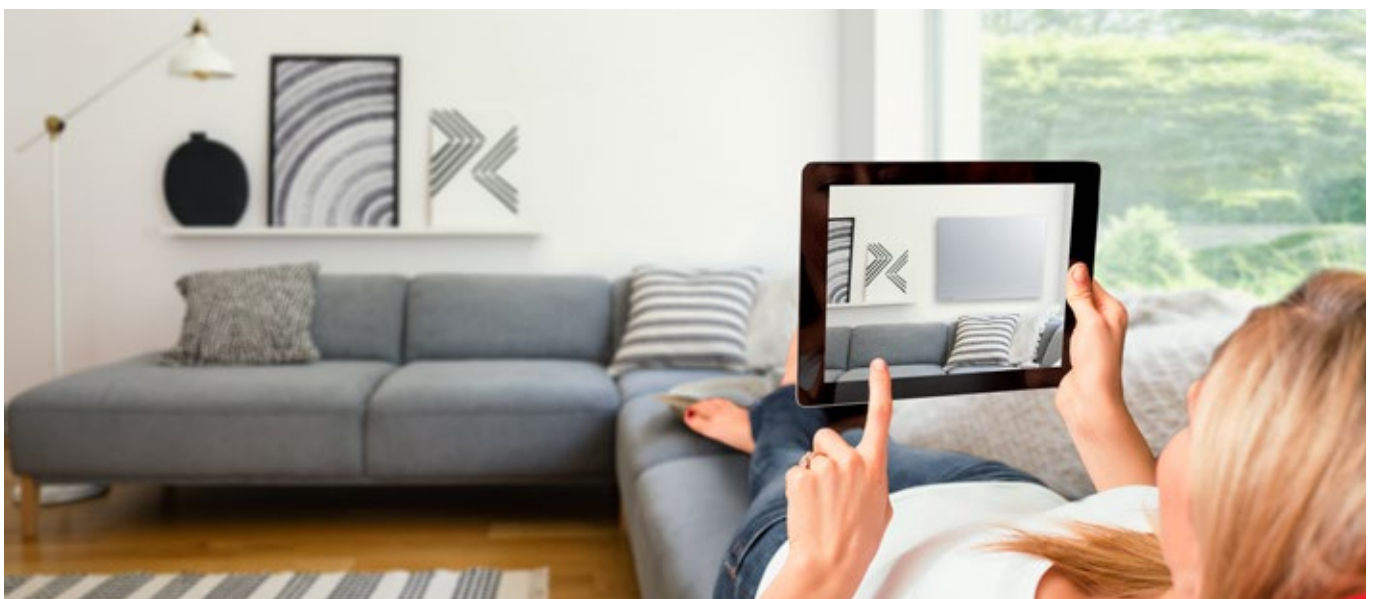
Explanatory video





## HOW IT WORKS

- Open the application and select the brand Technotherm.
- Select the desired product.
- Click on "View in AR (iOS)" / „TRY IN SPACE (Android)" and scan the floor until the product is displayed.
- Place the product on the desired wall or surface and take a screenshot.
- Test the different colours in which the product is offered.
- In the description of each product you will find all information on size, material, color etc.



More informations at: [technotherm.de/augmented-reality-app.html](https://technotherm.de/augmented-reality-app.html)

# ECO-INTERFACE 1.0 AND 2.0 – CENTRAL CONTROL MANAGEMENT

SMART-HOME-SOLUTION FOR  
ALL AFFILIATED DELTA DORE DEVICES



## WHAT THE ECO INTERFACES DO:

- Intuitive use thanks to the photo mode and display of rooms
- Detailed consumption display
- Control of lights, sockets, gates and thermostats
- Run smart home scenarios remotely
- Free and secure APP, without subscription

ECO 1.0



ECO 2.0



WITH THE **ECO-INTERFACES**, YOU CAN **CONTROL** YOUR HOME AUTOMATION FROM YOUR HOME OR REMOTELY, **USING YOUR SMARTPHONE**

## FUNCTIONS

- Control the room temperature in the living area
- Central switching capability for lighting
- Create individual room atmospheres
- Actuation of roller shutters and blinds
- Operation of front door, entrance gate, garage door, etc.
- Handle of the alarm center with status display



## SCENARIOS

- Creation of light guiding scenarios
- Creation of individual everyday scenarios (e.g. I am on the way home: the heating is turned up, the lights are switched on, the shutters are closed, etc.)

## FACTS

- Control up to 32 channels at the same time
- maintenance of up to 10 locations (apartments, second residences, shops, etc.)
- Personal design of the library, symbols and interior photos

# INTO A CLEAN FUTURE WITH TECHNOTHERM

ELECTRICAL HEAT ACCUMULATORS  
CAN BE USED WITH PHOTOVOLTAIC SYSTEMS.

Use electric heaters with your own electricity. Clean and ecological.

- Heating with **self-generated energy** - paired with **green electricity, too**
- **Store the heat economically!**  
You can use electricity and energy 24 hours a day
- Heating units can be **individually controlled**
- Your additional **energy consumers** are supplied with **energy from the roof**
- **No CO2 emission**
- **Sustainable** efficiency
- **Flexible** and easy
- Thanks to the TT Energy Manager, **you become largely self-sustaining, safe and independent**



OUR PRODUCTS CAN BE INTEGRATED  
IN ALL NEW ENERGY CONCEPTS AND  
EXISTING SYSTEMS.  
WE ARE HAPPY TO ADVISE YOU!

# Energy revolution for your home!

TAKE **CONTROL** OF YOUR ELECTRICITY  
AND HEATING COSTS

Become, for the most part, independent from your energy supplier and heating costs.

Our **electrical, energy and heat storage** units are shapely and efficient. They store your **solar energy in the form of heat** and regulate it according **to your needs**.

Many models and application possibilities can be found in our catalogue.

**Contact us!**



# ErP Ready - The ErP directive

WITH PRODUCTS OF TECHNOTHERM YOU ARE READY!

In the Ecodesign Directive (the ErP Directive), the European Union requires that the environmental impact of energy-related products must be minimized. For this purpose, requirements for an environmentally friendly design of products throughout their entire life cycle were defined and implemented into national law.

## **Instrument of environmental protection**

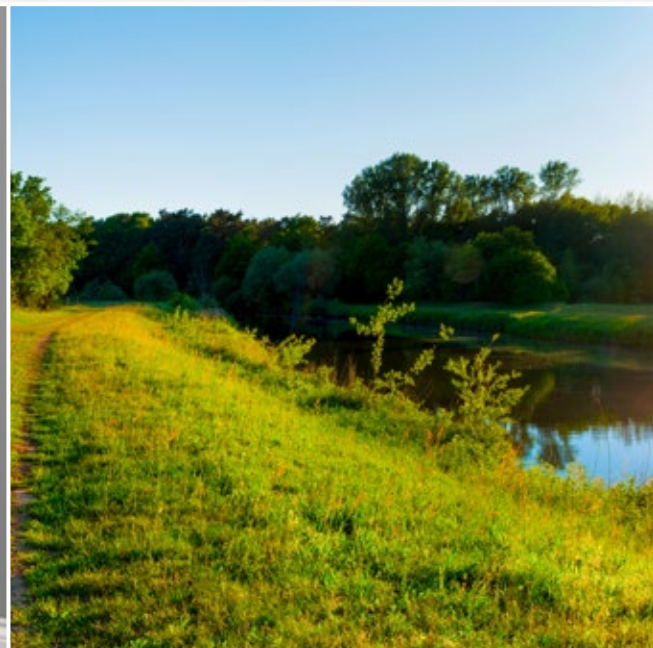
Many products that are similar in use, function and performance differ considerably in terms of their efficiency and environmental compatibility. The environment can be relieved in the long term through resource-saving and energy-efficient product design.

## **Uniform directive for the whole EU**

The provisions on the ErP Directive are applied uniformly throughout the EU. Thus, no competitive advantage can arise due to differing country-specific regulations.

## **Implementation at TECHNOTHERM**

According to the ErP Directive, electric room heating appliances must comply with the requirements of ErP. TECHNOTHERM guarantees planners and end users an energetically high standard.



# Ecodesign Directive (ErP)

## ENERGY LABEL FOR HEATERS.



Graphical representation subject to change as legal changes may follow.

### Objectives of the ErP Directive

With the ErP Directive, the European Union is pushing ahead with climate protection by prescribing a restriction on the energy consumption of energy related products.

### Our energy-saving and future-proof electric heaters

It is our aim to provide our customers with innovative products that consume as little energy as possible with optimum performance.

We have not only responded to the new EU mandate, but we have also taken care to develop our electrical heating appliances in an energy-saving manner. The result is the "ErPReady Label" by TECHNOTHERM.



### Calculation according to the ErP Directive

$$n_s = n_{s0} - 10\% + F1 + F2 + F3 - F4 - F5$$

for electric room heaters applies:

$n_{s0} = 40\%$

F1 only for electric storage heaters

F4 = 0

F5 = 0

| models         |            | $n_{s0} - 10\%$ | F1 | F2   | F3   | F4 | overall result | max. score |
|----------------|------------|-----------------|----|------|------|----|----------------|------------|
| TT-KS DSM      | mobile     | 30%             |    | 9%   | 1%   | 0% | 40%            | 40,0%      |
|                | stationary | 30%             |    | 7%   | 3%   | 0% | 40%            | 40,0%      |
| TT-KS RF       | mobile     | 30%             |    | 9%   | 1%   | 0% | 40%            | 40,0%      |
|                | stationary | 30%             |    | 7%   | 3%   | 0% | 40%            | 40,0%      |
| storage heater |            |                 |    |      |      |    |                |            |
| Eco-Serie      |            | 30%             | 5% | 3,5% | 1,5% | 0% | 40%            | 40,0%      |
| with RF        |            | 30%             | 0% | 7%   | 2,0% | 0% | 39%            | 40,0%      |

# PARTIAL STORAGE HEATERS

## VERSATILE & INNOVATIVE!

The TECHNOTHERM Partial Storage Heaters have been designed using the latest technology to create an elegant solution for all hard to heat situations. They can be installed in almost any location due to the flexibility of the product. The range has been developed to provide an adaptable solution for electric heating in Domestic properties, Conservatories, Holiday homes, Offices and any other central heating situation. The development of the patented Magmatic® heating tablets is our contribution to reducing your heating costs.

Whilst the radiator is classed as a 100% efficient Direct Acting appliance, the heating tablets provide partial storage to prolong your heating comfort and to reduce running costs. The radiator has a robust body which incorporates a spot welded high fin surface area to ensure that there are no expansion or contraction noises during the heating cycle. The high fin design boasts 6 times the normal radiator surface area to provide a balance of Convection and Radiant heat for your added comfort.

Our partial storage heaters impress with:

- **Castors, feet stands or radiator supports can be ordered as optional extras**
- **Only 7 cm depth**
- **IP 20 / IP X4**
- **"Internet Ready" with the ECO interface (Radio receiver RF and TPF thermostat) or the LHZ APP (DSM thermostat)**
- **Self-generated electricity can be used with the TECHNOTHERM energymanager**
- **Low Surface Temperature (LST) models available for Kindergartens, schools and social facilities**

The partial storage heaters can be easily connected to a standard power outlet or an existing line. They come with Wall Mounting brackets, but can also be mounted on Feet/Castors as an optional extra. The range also includes space-saving partial storage heaters for conservatory, which can be easily installed under deep windows due to their low height of only 34 cm. All our standard models come with a built-in, manually controlled room thermostat. For a completely controllable heating system, the partial storage heaters can be operated with our ECO control system (Internet-capable) or with own power (TT energy manager) and room thermostats.



# Partial storage heater TT-KS

THE MODERN ELECTRIC HEATING SYSTEM



**Our unique surface thermal-storage heaters are designed so that the heat is directly stored in special ceramics panels almost without energy losses. A six times larger surface ensures a correct balance of radiant and convection heat.**

As soon as the surface thermal storage heater has reached its optimal temperature, the heat can be released for max. 45 minutes without current, depending on the value set on the thermostat. Depending on the programmed settings and on the substance of the building, 3-5 hours of electricity are needed on average for 24 hours heat release.

#### **MAGMATIC® energy storage stone**

All our models are equipped with the special Magmatic® heat storage medium.

The wall mounting is included in the scope of delivery; feet or casters are available as an option. ▶



All RAL colors are available upon request.  
Extra charge: 169,00 €



## CONTROL YOUR DEVICES THROUGH INNOVATIVE NEW WIFI THERMOSTATS

### Thermostat DSM



The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 121) via the Internet using the free Technotherm APP. Separate temperatures and various time programs can be set for each room (see page 8-9). Current consumption and a "history" are easy to read. The thermostat detects an open window and reacts accordingly ("Open Window" function). The "out-of-house" function allows all programmed devices to be down-regulated by a certain temperature. Automatic function - detects presence and absence and adapts to your heat demand. The DSM thermostat makes your heater, among others, ErP-ready.

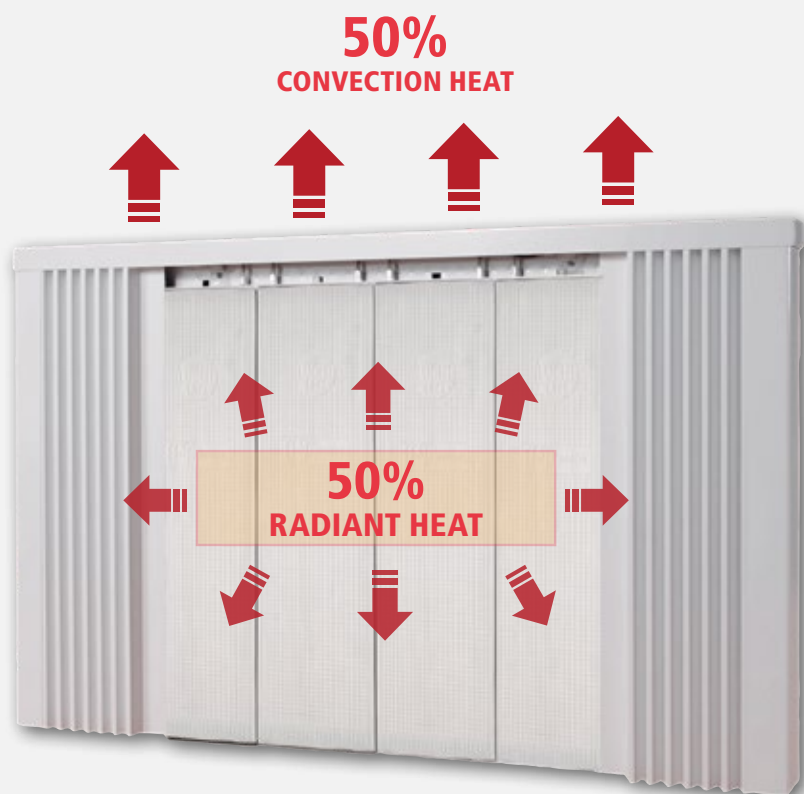


### Radio receiver RF



Built-in radio receiver for control with an external thermostat. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control via the Internet, range within the building approx. 30 m (depending on the design), radio frequency 868 MHz (standard EN 300 200), for ECO interface (see page 12-13). The TPF-ECO thermostat must be ordered separately (see page 121).



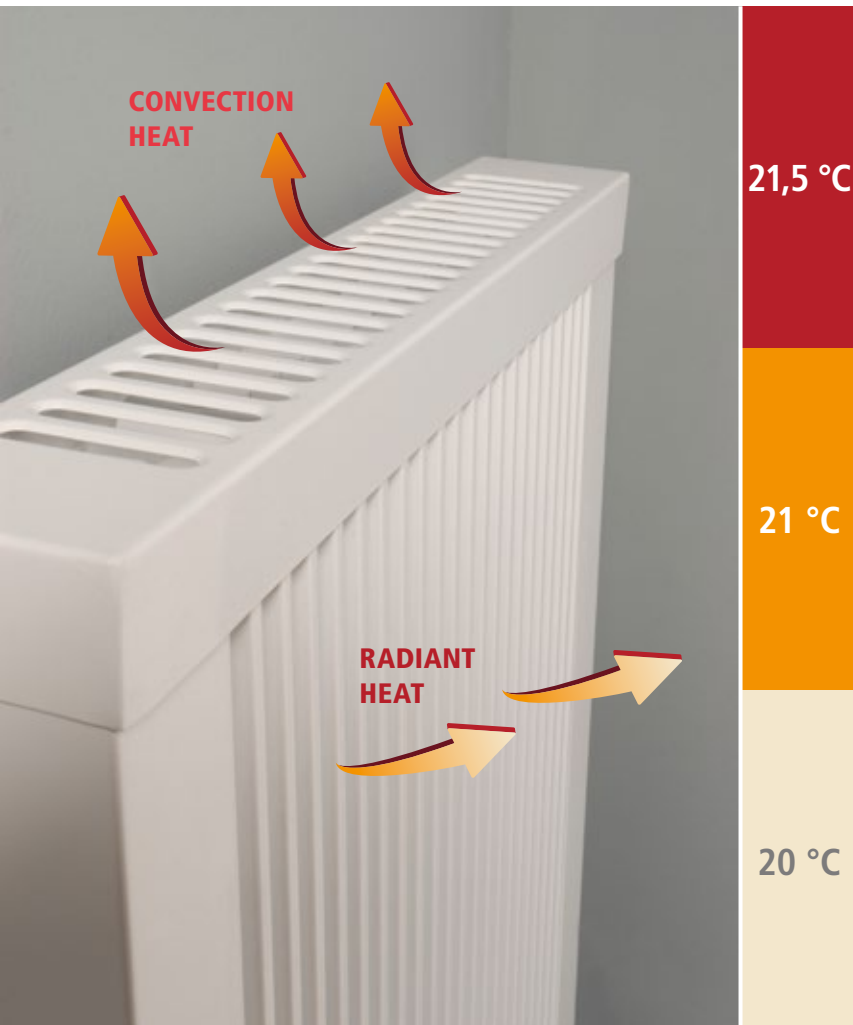
BENEFITS OF **CONVECTION HEAT** AND **RADIANT HEAT** IN A DEVICE

Our unique surface thermal-storage heaters are designed so that the heat is directly stored in special ceramics panels almost without energy losses. A six times larger surface ensures a correct balance of radiant and convection heat. As soon as the surface thermal-storage heater has reached its optimal temperature, the heat can be released for max. 45 minutes without current, depending on the value set on the thermostat. Depending on the programmed settings and on the substance of the building, 3-5 hours of electricity are needed on average for 24 hours heat release.

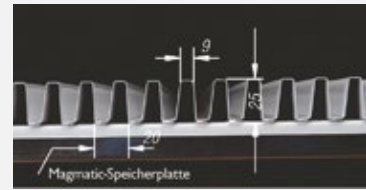
**MAGMATIC®-energy storage stone**

Using a special technology, the heating conductors manufactured from chromium-nickel steel (scale resistant at up to 1,100 °C, better contact conditions) are filled into the storage stone. Thus the energy is almost completely converted into heat directly in the storage stone. The overheating protection is installed repeatedly in the device. The powder coating (also in its internal space) protects the device against corrosion.





- ▼ Sheet steel fins with 6 times more surface



- ▲ Special ceramic panels

- ◀ Development of the energy storage stone is our contribution to the reduction of your heating costs. The heating fins are welded on individually so that no crack noise occurs during heating. Thus you receive a clean and noise-free warmth.



# Partial storage heater

Series TT KS-S



## TT KS-S

**Partial thermal-storage heater with individually weld-on fins**, powdercoated surface, white RAL 9003, only 70 mm depth, infinitely variable built-in thermostat controls your room temperature, connecting lead 1.5 m with plug, 230 V~, incl. stands.

**Mobile version.**

IP 20



## TT KS-S DSM

**As standard, in addition with DSM thermostat.**

The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 121) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 8-9). With electronic room temperature control and weekday regulation. Detection of open window. Adaptive start control. Internet option (see page 121).



| Model        | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 500 S  | 0,50       | 380 x 630 x 70               | 22,00                  | 450 605 965  | 615,00          |
| TT-KS 1000 S | 1,00       | 680 x 630 x 70               | 36,00                  | 450 610 965  | 865,00          |
| TT-KS 1200 S | 1,20       | 680 x 630 x 70               | 36,00                  | 450 612 965  | 927,00          |
| TT-KS 1500 S | 1,50       | 980 x 630 x 70               | 50,00                  | 450 615 965  | 1.019,00        |
| TT-KS 1800 S | 1,80       | 980 x 630 x 70               | 50,00                  | 450 618 965  | 1.038,00        |
| TT-KS 2000 S | 2,00       | 1280 x 630 x 70              | 62,00                  | 450 620 965  | 1.074,00        |
| TT-KS 2400 S | 2,40       | 1280 x 630 x 70              | 62,00                  | 450 624 965  | 1.115,00        |
| TT-KS 2800 S | 2,80       | 1580 x 630 x 70              | 82,00                  | 450 628 965  | 1.223,00        |

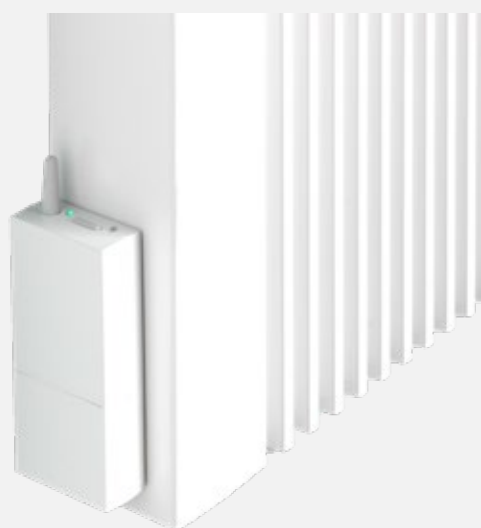
Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

| Model            | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 500 S DSM  | 0,50       | 380 x 630 x 70               | 22,00                  | 450 605 975  | 689,00          |
| TT-KS 1000 S DSM | 1,00       | 680 x 630 x 70               | 36,00                  | 450 610 975  | 932,00          |
| TT-KS 1200 S DSM | 1,20       | 680 x 630 x 70               | 36,00                  | 450 612 975  | 992,00          |
| TT-KS 1500 S DSM | 1,50       | 980 x 630 x 70               | 50,00                  | 450 615 975  | 1.080,00        |
| TT-KS 1800 S DSM | 1,80       | 980 x 630 x 70               | 50,00                  | 450 618 975  | 1.097,00        |
| TT-KS 2000 S DSM | 2,00       | 1280 x 630 x 70              | 62,00                  | 450 620 975  | 1.132,00        |
| TT-KS 2400 S DSM | 2,40       | 1280 x 630 x 70              | 62,00                  | 450 624 975  | 1.172,00        |
| TT-KS 2800 S DSM | 2,80       | 1580 x 630 x 70              | 82,00                  | 450 628 975  | 1.277,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.



## TT KS-S RF

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). **IP 20**

The TPF-ECO thermostat and ECO-Interface must be ordered separately for all RF models (see page 121).



## TT KS-S plus

As standard, with the "plus" thermostat for easy programming. The thermostat detects open windows and occupies an additive start control with various daily and weekly programs. Large display for good device operations.

**IP 24**



| Model           | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 500 S RF  | 0,50       | 380 x 630 x 70               | 22,00                  | 450 605 955  | 659,00          |
| TT-KS 1000 S RF | 1,00       | 680 x 630 x 70               | 36,00                  | 450 610 955  | 910,00          |
| TT-KS 1200 S RF | 1,20       | 680 x 630 x 70               | 36,00                  | 450 612 955  | 973,00          |
| TT-KS 1500 S RF | 1,50       | 980 x 630 x 70               | 50,00                  | 450 615 955  | 1.064,00        |
| TT-KS 1800 S RF | 1,80       | 980 x 630 x 70               | 50,00                  | 450 618 955  | 1.082,00        |
| TT-KS 2000 S RF | 2,00       | 1280 x 630 x 70              | 62,00                  | 450 620 955  | 1.119,00        |
| TT-KS 2400 S RF | 2,40       | 1280 x 630 x 70              | 62,00                  | 450 624 955  | 1.159,00        |
| TT-KS 2800 S RF | 2,80       | 1580 x 630 x 70              | 82,00                  | 450 628 955  | 1.267,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

| Model             | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 500 S plus  | 0,50       | 380 x 630 x 70               | 22,00                  | 450 605 945  | 638,00          |
| TT-KS 1000 S plus | 1,00       | 680 x 630 x 70               | 36,00                  | 450 610 945  | 889,00          |
| TT-KS 1200 S plus | 1,20       | 680 x 630 x 70               | 36,00                  | 450 612 945  | 951,00          |
| TT-KS 1500 S plus | 1,50       | 980 x 630 x 70               | 50,00                  | 450 615 945  | 1.042,00        |
| TT-KS 1800 S plus | 1,80       | 980 x 630 x 70               | 50,00                  | 450 618 945  | 1.061,00        |
| TT-KS 2000 S plus | 2,00       | 1280 x 630 x 70              | 62,00                  | 450 620 945  | 1.097,00        |
| TT-KS 2400 S plus | 2,40       | 1280 x 630 x 70              | 62,00                  | 450 624 945  | 1.138,00        |
| TT-KS 2800 S plus | 2,80       | 1580 x 630 x 70              | 82,00                  | 450 628 945  | 1.247,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

# Partial storage heater

Series TT KS-N



## TT KS-N

**Low partial thermal-storage heater with individually weld-on fins**, powdercoated surface, white RAL 9003, only 70 mm depth, infinitely variable built-in thermostat controls your room temperature, connecting lead 1.5 m with plug, 230 V~, incl. stands. **Mobile version.**

IP 20



## TT KS-N DSM

**As standard, in addition with DSM thermostat.**

The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 121) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 8-9). With electronic room temperature control and weekday regulation. Detection of open window. Adaptive start control. Internet option (see page 121).



| Model        | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 800 N  | 0,80       | 680 x 340 x 70               | 21,00                  | 450 308 965  | 642,00          |
| TT-KS 1200 N | 1,20       | 980 x 340 x 70               | 24,50                  | 450 312 965  | 827,00          |
| TT-KS 1600 N | 1,60       | 1280 x 340 x 70              | 34,50                  | 450 316 965  | 999,00          |
| TT-KS 2000 N | 2,00       | 1580 x 340 x 70              | 38,00                  | 450 320 965  | 1.022,00        |

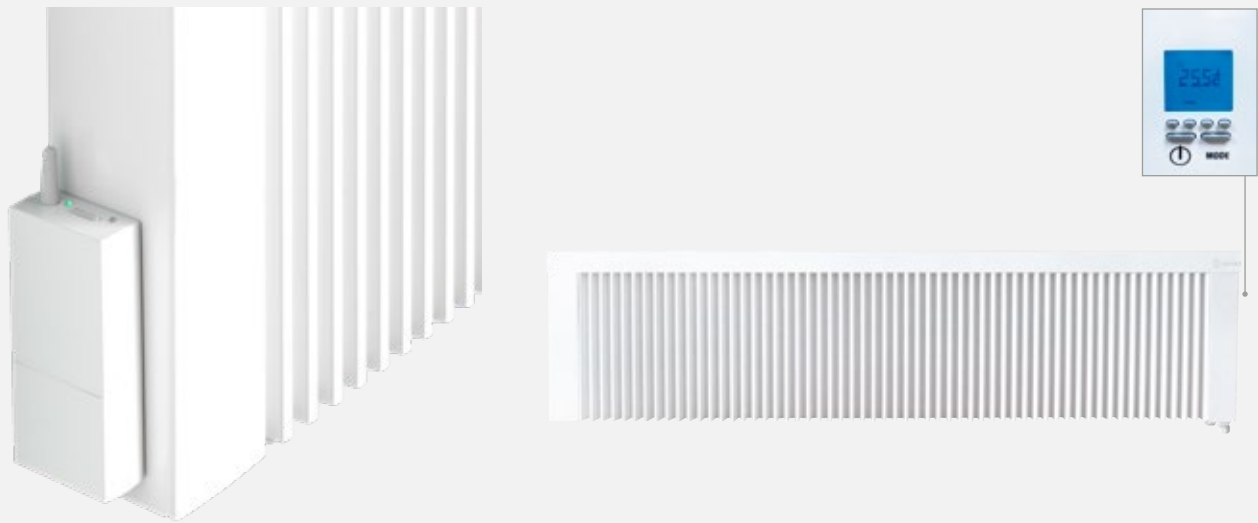
Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

| Model            | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 800 N DSM  | 0,80       | 680 x 340 x 70               | 21,00                  | 450 308 975  | 714,00          |
| TT-KS 1200 N DSM | 1,20       | 980 x 340 x 70               | 24,50                  | 450 312 975  | 894,00          |
| TT-KS 1600 N DSM | 1,60       | 1280 x 340 x 70              | 34,50                  | 450 316 975  | 1.060,00        |
| TT-KS 2000 N DSM | 2,00       | 1580 x 340 x 70              | 38,00                  | 450 320 975  | 1.082,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.



## TT KS-N RF

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). **IP 20**

The TPF-ECO thermostat and ECO-Interface must be ordered separately for all RF models (see page 121).



## TT KS-N plus

As standard, with the "plus" thermostat for easy programming. The thermostat detects open windows and occupies an additive start control with various daily and weekly programs. Large display for good device operations.

**IP 24**



| Model           | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 800 N RF  | 0,80       | 680 x 340 x 70               | 21,00                  | 450 308 955  | 686,00          |
| TT-KS 1200 N RF | 1,20       | 980 x 340 x 70               | 24,50                  | 450 312 955  | 871,00          |
| TT-KS 1600 N RF | 1,60       | 1280 x 340 x 70              | 34,50                  | 450 316 955  | 1.042,00        |
| TT-KS 2000 N RF | 2,00       | 1580 x 340 x 70              | 38,00                  | 450 320 955  | 1.066,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

| Model             | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 800 N plus  | 0,80       | 680 x 340 x 70               | 21,00                  | 450 308 945  | 664,00          |
| TT-KS 1200 N plus | 1,20       | 980 x 340 x 70               | 24,50                  | 450 312 945  | 851,00          |
| TT-KS 1600 N plus | 1,60       | 1280 x 340 x 70              | 34,50                  | 450 316 945  | 1.022,00        |
| TT-KS 2000 N plus | 2,00       | 1580 x 340 x 70              | 38,00                  | 450 320 945  | 1.044,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

# Partial storage heater

Series TT KS-H



## TT KS-H DSM

**As standard, in addition with DSM thermostat.**

The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 121) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 8-9). With electronic room temperature control and weekday regulation. Detection of open window. Adaptive start control. Internet option (see page 121).

## TT KS-H RF

**As standard, but with built-in radio receiver for control with an external thermostat** e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). **IP 20**

**The TPF-ECO thermostat and ECO-Interface must be ordered separately for all RF models (see page 121).**



| Model            | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 1200 H DSM | 1,20       | 380 x 1240 x 70              | 35,00                  | 450 112 975  | 1.033,00        |
| TT-KS 1800 H DSM | 1,80       | 550 x 1240 x 70              | 58,00                  | 450 118 975  | 1.134,00        |
| TT-KS 2200 H DSM | 2,20       | 680 x 1240 x 70              | 66,00                  | 450 122 975  | 1.261,00        |

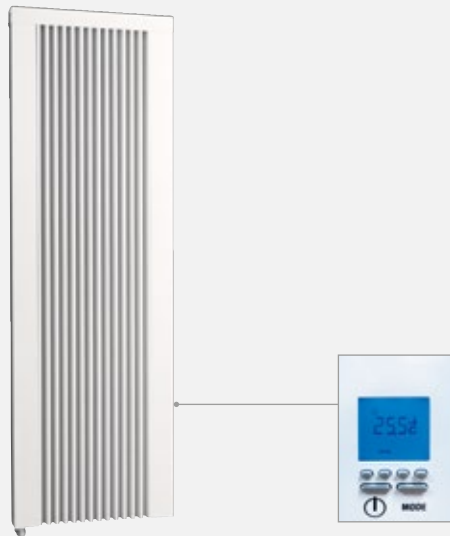
Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

| Model           | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 1200 H RF | 1,20       | 380 x 1240 x 70              | 35,00                  | 450 112 955  | 1.014,00        |
| TT-KS 1800 H RF | 1,80       | 550 x 1240 x 70              | 58,00                  | 450 118 955  | 1.121,00        |
| TT-KS 2200 H RF | 2,20       | 680 x 1240 x 70              | 66,00                  | 450 122 955  | 1.251,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.



## TT KS-H plus

As standard, with the "plus" thermostat for easy programming. The thermostat detects open windows and occupies an additive start control with various daily and weekly programs. Large display for good device operations.

IP 24



| Model             | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 1200 H plus | 1,20       | 380 x 1240 x 70              | 35,00                  | 450 112 945  | 994,00          |
| TT-KS 1800 H plus | 1,80       | 550 x 1240 x 70              | 58,00                  | 450 118 945  | 1.099,00        |
| TT-KS 2200 H plus | 2,20       | 680 x 1240 x 70              | 66,00                  | 450 122 945  | 1.230,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

# Partial storage heater for social facilities

Series TT KS-S LT



## TT KS-LT

**Model TT KS-LT Variable Low Surface Temperature 45 °C - 60 °C for kindergartens, schools and social facilities.** Partial thermal-storage heater with individually weld-on fins, powder coated surface, white RAL 9003, only 70 mm depth, infinitely variable built-in thermostat controls your room temperature, connecting lead 1.5 m with plug, 230V~, incl. stands.

**Mobile version. IP 20**

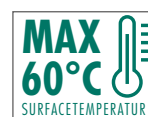


## TT KS-LT RF

**As standard, but with built-in radio receiver for control with an external thermostat**

e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). **IP 20**

**The TPF-ECO thermostat and ECO-Interface must be ordered separately for all RF models (see page 121).**



| Model           | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 700 S LT  | 0,70       | 680 x 630 x 70               | 36,00                  | 450 607 665  | 967,00          |
| TT-KS 1200 S LT | 1,20       | 980 x 630 x 70               | 50,00                  | 450 612 665  | 1.076,00        |
| TT-KS 1500 S LT | 1,50       | 1280 x 630 x 70              | 62,00                  | 450 615 665  | 1.154,00        |
| TT-KS 1800 S LT | 1,80       | 1580 x 630 x 70              | 82,00                  | 450 618 665  | 1.262,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

| Model              | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 700 S LT RF  | 0,70       | 680 x 630 x 70               | 36,00                  | 450 607 655  | 1.010,00        |
| TT-KS 1200 S LT RF | 1,20       | 980 x 630 x 70               | 50,00                  | 450 612 655  | 1.121,00        |
| TT-KS 1500 S LT RF | 1,50       | 1280 x 630 x 70              | 62,00                  | 450 615 655  | 1.197,00        |
| TT-KS 1800 S LT RF | 1,80       | 1580 x 630 x 70              | 82,00                  | 450 618 655  | 1.306,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.



## TT KS-LT plus

As standard, with the "plus" thermostat for easy programming. The thermostat detects open windows and occupies an additive start control with various daily and weekly programs. Large display for good device operations.

IP 24



## TT KS-LT H RF

**High version. Surface temperature with max. 60 °C for kindergartens, schools and social institutions (LT = Low Temperature).** Surface white powder-coated RAL 9003, only 70 mm deep, **with built-in radio receiver** for control with an external radio thermostat e.g. TPFEKO (exclusive) and our TYDOM APP (necessary for control via the Internet), range in the building approx. 30 m (depending on type), radio frequency 868 MHz (standard EN 300 200), for ECO interface (see pages 12-13). **IP 20**

**The TPF-ECO radio thermostat must be ordered separately for all RF models (see page 121).**

## TT KS-LT H plus

**High version. Surface temperature with max. 60 °C for kindergartens, schools and social institutions (LT = Low Temperature).** Surface white powder-coated RAL 9003, only 70 mm deep, additionally with the "plus" thermostat for easy programming on the device. Detects open windows, adaptive start function, various daily and weekly programs, large display.



| Model                | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 700 S LT plus  | 0,70       | 680 x 630 x 70               | 36,00                  | 450 607 645  | 992,00          |
| TT-KS 1200 S LT plus | 1,20       | 980 x 630 x 70               | 50,00                  | 450 612 645  | 1.101,00        |
| TT-KS 1500 S LT plus | 1,50       | 1280 x 630 x 70              | 62,00                  | 450 615 645  | 1.179,00        |
| TT-KS 1800 S LT plus | 1,80       | 1580 x 630 x 70              | 82,00                  | 450 618 645  | 1.287,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

| Model                | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TT-KS 870 S LT H RF  | 0,87       | 380 x 1240 x 70              | 35,00                  | 450 108 655  | 1.074,00        |
| TT-KS 1240 S LT H RF | 1,24       | 550 x 1240 x 70              | 58,00                  | 450 112 655  | 1.178,00        |
| TT-KS 1740 S LT H RF | 1,74       | 680 x 1240 x 70              | 66,00                  | 450 170 655  | 1.281,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

| Modell                 | Leistung [kW] | Abmessung<br>B x H x T [mm] | Gewicht<br>[ca. kg] | Bestellnummer | Preis<br>[Euro] |
|------------------------|---------------|-----------------------------|---------------------|---------------|-----------------|
| TT-KS 870 S LT H plus  | 0,87          | 380 x 1240 x 70             | 35,00               | 450 108 645   | 1.055,00        |
| TT-KS 1240 S LT H plus | 1,24          | 550 x 1240 x 70             | 58,00               | 450 112 645   | 1.158,00        |
| TT-KS 1740 S LT H plus | 1,74          | 680 x 1240 x 70             | 66,00               | 450 170 645   | 1.262,00        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 50,00 Euro extra charge.

# Static Storage Heater - Eco-Design

ELECTRIC - STORAGE HEATER WITH STATIC HEAT EMISSION  
AND ROOM TEMPERATURE CONTROL THERMOSTAT



## ▲ Simply installation with unique housing design

Storage heater of the type TTB-E Duo Technotherm with static heat emission are ideal as a heating device for many types of rooms within a home. It measures the room temperature and decides on the duration of the charge. This saves money!

- Built-in Electronic thermostat for input and output control
- Only 18,5 cm depth - ergonomic and robust
- Easy installation
- Controlled heat emission with a patented venting system
- Suitable for 8 to 16 hours charge time
- Silent radiant and convected heat emission
- Corresponding safety standard EN 6033, Safety Class 1
- Colour RAL 9002
- Control of room temperature depending on the charging
- Additional "direct acting" aluminium heating element



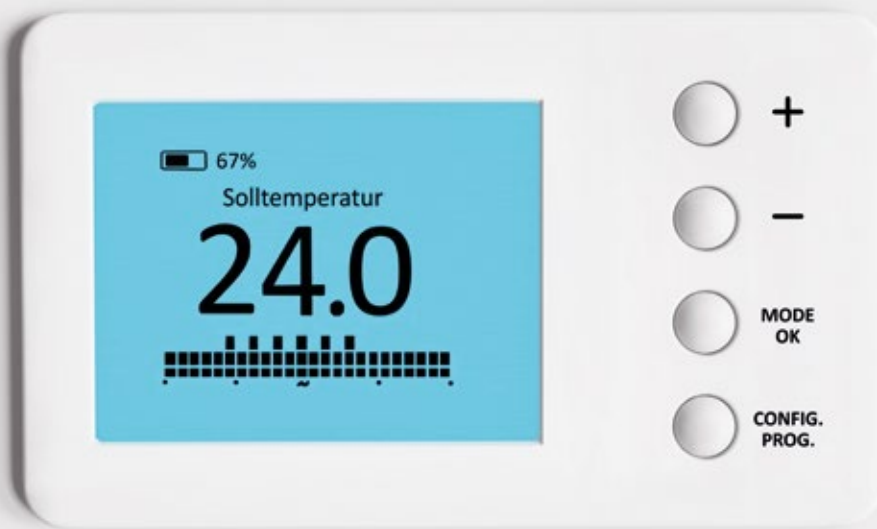
Controllable via Internet with the DSM interface





# Static Storage Heater - Eco-Design

STORAGE HEATER WITH ELECTRONIC CONTROL



▼ Only 18,5 cm depth

- ▲ • Adaptive control
- Charging indicator
- Various weekly programs
- Thermostat detects open windows (detects when the Temperature drops by 1.2 °C within 10 minutes and stops the heat emission for 10 minutes)

**Smart storage for extended charging times.**



- ◀ • Discharge via built-in electronic room temperature controller
- Core charge dependent on the set room temperature
- Transition auxiliary heating is installed at the factory
- Floor-free mounting of the device
- Wall mounting included
- No fan noise - very quiet operation
- Easily accessible control element on the top side



TTB-E Duo

Built-in electronic thermostat for input and output control. Only 18.5 cm deep - ergonomic and robust. Easy installation. Controlled heat emission with a patented ventilation system. Suitable for 8 to 16 hours charging time. Silent radiant and convection heat generation. Corresponding safety standard EN 60333, Safety class 1. colour RAL 9003. regulation of the room temperature depending on the load. Additional "direct acting" aluminum heating element.



| Model         | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTB-E Duo 8+  | 0,85       | 460 x 720 x 185              | 50                     | 842 508 007  | 711,00          |
| TTB-E Duo 17+ | 1,70       | 670 x 720 x 185              | 88                     | 842 517 007  | 854,00          |
| TTB-E Duo 26+ | 2,55       | 880 x 720 x 185              | 127                    | 842 526 007  | 997,00          |
| TTB-E Duo 34+ | 3,40       | 1090 x 720 x 185             | 166                    | 842 534 007  | 1.140,00        |

Discount group TT\_120

# DIRECT ACTING PANEL HEATERS

**COMFORTABLE, QUICK  
AND COST EFFICIENT HEATING!**

Technotherm offer the most up to date, energy efficient range of Electric Panel Heaters. From traditional models like the ConvectoRad CHM and CPH convector heaters, to the more modern design Panel Heaters like the VPS/VPS Design and new Ultra-Slimline ranges. There will be a product to suit all tastes, and to fit all types of heating solutions.

TECHNOTHERM offers you a tailored solution for almost each heating situation.

- **Wall Mounted Panel Heaters:**      **Unique Designs and highly efficient**
- **Turbo Heaters:**                      **Powerful, comfortable fast heat**
- **Infrared Heaters:**                      **Accurate 'short wave' heat**
- **Frost Protective Heaters:**              **Safe and affective**





# Wall mounted Panel Heater VPS

WITH BUILT-IN SPECIAL **HEAT RETENTION CERAMIC TABLETS**



▲ With DSM thermostat



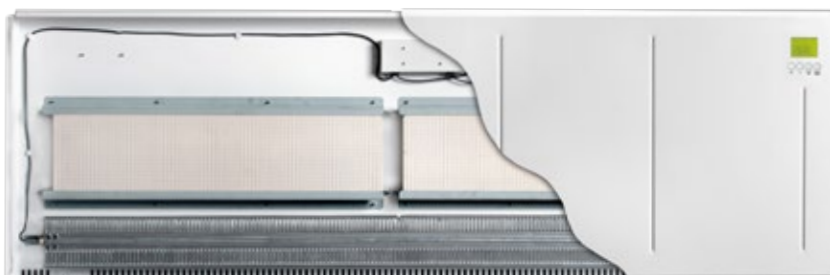
▲ The product range of TECHNOTHERM panel heaters offers perfect solutions for all technical demands on heating. Whether in large-dimensioned houses or small apartments - TECHNOTHERM offers heaters of an aesthetic design for stylish facings paired with the newest heating technologies. So you can heat efficiently and reduce your energy costs. **Heaters made in Germany!** Heating with TECHNOTHERM - even more comfortable.

All VPS heaters are equipped with a special heat storage stone. The series also features a digital, electronic thermostat that allows comfortable and fully controlled heating.



RAL 9003 housing color

All RAL colors are available upon request.  
Extra charge: 99,00 €



- twin overheat safety protection
- digital thermostat
- special ceramic storage
- 100% of ceramic natural materials

# Direct heater

Series VPS-white



## Wall convector VPS plus

Strong steel housing, with special ceramic heat retention tablets, Aluminium heating element, Twin Overheat protection, Thermostat with weekday function, Detection of open window, adaptive start control (Settings: Comfort, Economy, Frost Protection), Colour white, protection class I, connecting lead with plug.

## VPS DSM, VPS H DSM

As standard, in addition with DSM thermostat. The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 121) via the Internet using the free Technotherm APP. Separate temperatures and various time programs can be set for each room (see page 8-9).

| Model white     | Power [KW] | Dimensions W x H x D [mm] | Weight [kg approx.] | Order number | Price [Euro] |
|-----------------|------------|---------------------------|---------------------|--------------|--------------|
| VPS 750 plus    | 0,75       | 750 x 450 x 68            | 11,50               | 429 754 211  | 361,00       |
| VPS 1000 plus   | 1,00       | 750 x 450 x 68            | 11,50               | 429 754 212  | 371,00       |
| VPS 1200 plus   | 1,20       | 750 x 450 x 68            | 11,50               | 429 754 213  | 381,00       |
| VPS 1500 plus   | 1,50       | 1050 x 450 x 68           | 15,00               | 429 754 214  | 414,00       |
| VPS 2000 plus   | 2,00       | 1050 x 450 x 68           | 15,00               | 429 754 216  | 437,00       |
| VPS 1200 H plus | 1,20       | 450 x 1050 x 68           | 11,50               | 429 754 243  | 428,00       |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model white    | Power [KW] | Dimensions W x H x D [mm] | Weight [kg approx.] | Order number | Price [Euro] |
|----------------|------------|---------------------------|---------------------|--------------|--------------|
| VPS 750 DSM    | 0,75       | 750 x 450 x 68            | 11,50               | 429 754 271  | 434,00       |
| VPS 1000 DSM   | 1,00       | 750 x 450 x 68            | 11,50               | 429 754 272  | 444,00       |
| VPS 1200 DSM   | 1,20       | 750 x 450 x 68            | 11,50               | 429 754 273  | 453,00       |
| VPS 1500 DSM   | 1,50       | 1050 x 450 x 68           | 15,00               | 429 754 274  | 486,00       |
| VPS 2000 DSM   | 2,00       | 1050 x 450 x 68           | 15,00               | 429 754 276  | 509,00       |
| VPS 1200 H DSM | 1,20       | 450 x 1050 x 68           | 11,50               | 429 755 233  | 501,00       |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

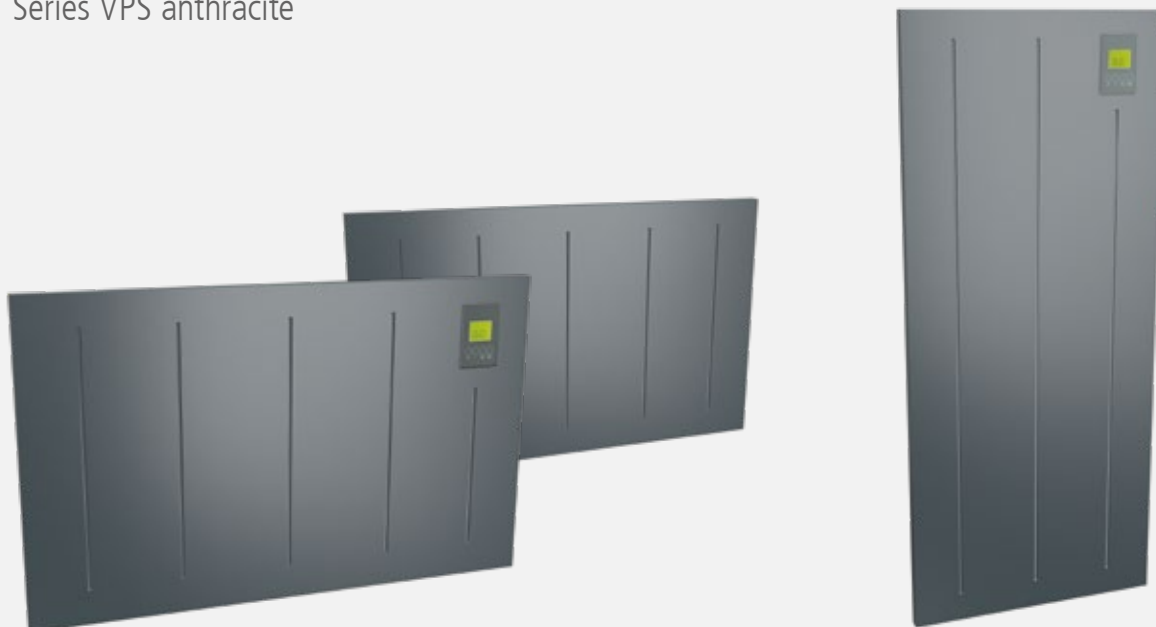
| Model white   | Power [KW] | Dimensions W x H x D [mm] | Weight [kg approx.] | Order number | Price [Euro] |
|---------------|------------|---------------------------|---------------------|--------------|--------------|
| VPS 750 RF    | 0,75       | 750 x 450 x 68            | 11,50               | 429 754 221  | 394,00       |
| VPS 1000 RF   | 1,00       | 750 x 450 x 68            | 11,50               | 429 754 222  | 404,00       |
| VPS 1200 RF   | 1,20       | 750 x 450 x 68            | 11,50               | 429 754 223  | 417,00       |
| VPS 1500 RF   | 1,50       | 1050 x 450 x 68           | 15,00               | 429 754 224  | 451,00       |
| VPS 2000 RF   | 2,00       | 1050 x 450 x 68           | 15,00               | 429 754 226  | 473,00       |
| VPS 1200 H RF | 1,20       | 450 x 1050 x 68           | 11,50               | 429 755 223  | 465,00       |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

# Direct heater

Series VPS anthracite



## VPS RF, VPS H RF

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). **IP 20. The TPF-ECO thermostat must be ordered separately for all RF models (see page 121).**

| Model anthracite  | Power [kW] | Dimensions W x H x D [mm] | Weight [kg approx.] | Order number | Price [Euro] |
|-------------------|------------|---------------------------|---------------------|--------------|--------------|
| VPS-Z 750 plus    | 0,75       | 750 x 450 x 68            | 11,50               | 429 754 331  | 460,00       |
| VPS-Z 1000 plus   | 1,00       | 750 x 450 x 68            | 11,50               | 429 754 332  | 470,00       |
| VPS-Z 1200 plus   | 1,20       | 750 x 450 x 68            | 11,50               | 429 754 333  | 480,00       |
| VPS-Z 1500 plus   | 1,50       | 1050 x 450 x 68           | 15,00               | 429 754 334  | 513,00       |
| VPS-Z 2000 plus   | 2,00       | 1050 x 450 x 68           | 15,00               | 429 754 335  | 536,00       |
| VPS-Z 1200 H plus | 1,20       | 450 x 1050 x 68           | 11,50               | 429 755 333  | 527,00       |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model anthracite | Power [kW] | Dimensions W x H x D [mm] | Weight [kg approx.] | Order number | Price [Euro] |
|------------------|------------|---------------------------|---------------------|--------------|--------------|
| VPS-Z 750 DSM    | 0,75       | 750 x 450 x 68            | 11,50               | 429 754 341  | 533,00       |
| VPS-Z 1000 DSM   | 1,00       | 750 x 450 x 68            | 11,50               | 429 754 342  | 543,00       |
| VPS-Z 1200 DSM   | 1,20       | 750 x 450 x 68            | 11,50               | 429 754 343  | 552,00       |
| VPS-Z 1500 DSM   | 1,50       | 1050 x 450 x 68           | 15,00               | 429 754 344  | 585,00       |
| VPS-Z 2000 DSM   | 2,00       | 1050 x 450 x 68           | 15,00               | 429 754 345  | 608,00       |
| VPS-Z 1200 H DSM | 1,20       | 450 x 1050 x 68           | 11,50               | 429 755 346  | 600,00       |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model anthracite | Power [kW] | Dimensions W x H x D [mm] | Weight [kg approx.] | Order number | Price [Euro] |
|------------------|------------|---------------------------|---------------------|--------------|--------------|
| VPS-Z 750 RF     | 0,75       | 750 x 450 x 68            | 11,50               | 429 754 351  | 493,00       |
| VPS-Z 1000 RF    | 1,00       | 750 x 450 x 68            | 11,50               | 429 754 352  | 503,00       |
| VPS-Z 1200 RF    | 1,20       | 750 x 450 x 68            | 11,50               | 429 754 353  | 516,00       |
| VPS-Z 1500 RF    | 1,50       | 1050 x 450 x 68           | 15,00               | 429 754 354  | 550,00       |
| VPS-Z 2000 RF    | 2,00       | 1050 x 450 x 68           | 15,00               | 429 754 355  | 572,00       |
| VPS-Z 1200 H RF  | 1,20       | 450 x 1050 x 68           | 11,50               | 429 755 356  | 564,00       |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.



DIRECT HEATERS



# Wall Mounted VPS Design Panel Heater

WITH HIGH-QUALITY GLASS FRONT



▲ High-Quality Glass Front



▲ In the **VPS design** series, the name says it all. The Wall mounted panel heater has a beautifully crafted heat resistant glass front. This series is one of many new developments having our **"Made in Germany"** seal.

- Special ceramics thermal-storage heater for long-lasting warmth
- Effective heating unit made of aluminium
- Twin overheat safety protection
- Radio receiver RF to easily regulate the device
- Also available as a vertical version
- Glass front suitable for writing on (for bars, restaurants, etc.)
- High quality glass front in 2 different colors



An effective wall-mounted convector with a high-quality glass front combines our premium product of the VPS-Design series. Experience the appealing aesthetics combined with extraordinary heating performance.

# Direct heater

Series VPS-Design



## Wall convector VPS-Design black, white

**Wall convector with glass front** in black or white with special ceramic thermal-storage stone, surface is writeable for bistros, restaurants, cafés etc., tempered safety glass with "crumble effect". As standard, with built-in radio receiver for control with an external thermostat. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type), radio frequency 868 MHz (standard EN 300 200), ECO interface (see page 12-13). **IP 20**

**The TPF-ECO thermostat must be ordered separately for all RF models (see page 121).**

| Model                  | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|------------------------|------------|------------------------------|------------------------|--------------|-----------------|
| VPS-Design B 1000 RF   | 1,00       | 755 x 454 x 68               | 15,00                  | 429 754 402  | 617,00 €        |
| VPS-Design B 1200 RF   | 1,20       | 755 x 454 x 68               | 15,00                  | 429 754 403  | 638,00 €        |
| VPS-Design B 1500 RF   | 1,50       | 1055 x 454 x 68              | 20,00                  | 429 754 404  | 723,00 €        |
| VPS-Design B 2000 RF   | 2,00       | 1055 x 454 x 68              | 20,00                  | 429 754 406  | 745,00 €        |
| VPS-Design B 1200 H RF | 1,20       | 454 x 1055 x 68              | 17,00                  | 429 755 403  | 701,00 €        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model                  | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|------------------------|------------|------------------------------|------------------------|--------------|-----------------|
| VPS-Design W 1000 RF   | 1,00       | 755 x 454 x 68               | 15,00                  | 429 754 302  | 617,00 €        |
| VPS-Design W 1200 RF   | 1,20       | 755 x 454 x 68               | 15,00                  | 429 754 303  | 638,00 €        |
| VPS-Design W 1500 RF   | 1,50       | 1055 x 454 x 68              | 20,00                  | 429 754 304  | 723,00 €        |
| VPS-Design W 2000 RF   | 2,00       | 1055 x 454 x 68              | 20,00                  | 429 754 306  | 745,00 €        |
| VPS-Design W 1200 H RF | 1,20       | 454 x 1055 x 68              | 17,00                  | 429 755 303  | 701,00 €        |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

# Wall convector SPH

ULTRA-FLAT AND EXCEPTIONAL DESIGN!



## ▲ Ultra-flat and exceptional design!

The SPH series impress with their unique flat design of only 9cm.



◀ The built-in thermostats have an "open window" function and various temperature programs, which greatly simplify the operation of the heaters.



◀ With special storage stone for long-lasting warmth.



All RAL colors are available upon request.  
Extra charge: 99,00 €



## SPH Plus

Horizontal arrangement of the design strips, thermostat mounted on the side with special heat storage stones for an optimum between short heating times and long heat emission. The "Plus"-Thermostat allows you to operate the device easily. Thermostat with weekday function, detection of open windows and adaptive start control (setting options: comfort, lowering, frost protection), connection cable 1.5 m with plug.

| Model<br>white  | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|------------|------------------------------|------------------------|--------------|-----------------|
| SPH 750 Plus    | 0,75       | 750 x 500 x 90               | 18,30                  | 429 754 710  | 361,00          |
| SPH 1000 Plus   | 1,00       | 750 x 500 x 90               | 18,30                  | 429 754 711  | 371,00          |
| SPH 1200 Plus   | 1,20       | 750 x 500 x 90               | 18,30                  | 429 754 712  | 381,00          |
| SPH 1500 Plus   | 1,50       | 1.050 x 500 x 90             | 24,00                  | 429 754 713  | 414,00          |
| SPH 2000 Plus   | 2,00       | 1.050 x 500 x 90             | 24,00                  | 429 754 714  | 437,00          |
| SPH 1200 H Plus | 1,20       | 500 x 1.050 x 90             | 18,30                  | 429 754 715  | 429,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model<br>anthracite | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------------|------------|------------------------------|------------------------|--------------|-----------------|
| SPH-Z 750 Plus      | 0,75       | 750 x 500 x 90               | 18,30                  | 429 754 760  | 460,00          |
| SPH-Z 1000 Plus     | 1,00       | 750 x 500 x 90               | 18,30                  | 429 754 761  | 470,00          |
| SPH-Z 1200 Plus     | 1,20       | 750 x 500 x 90               | 18,30                  | 429 754 762  | 480,00          |
| SPH-Z 1500 Plus     | 1,50       | 1.050 x 500 x 90             | 24,00                  | 429 754 763  | 513,00          |
| SPH-Z 2000 Plus     | 2,00       | 1.050 x 500 x 90             | 24,00                  | 429 754 764  | 536,00          |
| SPH-Z 1200 H Plus   | 1,00       | 500 x 1.050 x 90             | 18,30                  | 429 754 765  | 528,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

# Direct heater

SPH DSM and RF



## SPH DSM

Ultra-flat thermal convector. Horizontal arrangement of the design strips, with special heat storage stones for an optimum between short heating-up times and long heat output with built-in, programmable DSM thermostat: **The DSM thermostat can be controlled via DSM interface (to be ordered separately, see page 121) over the Internet with the free TECHNOTHERM APP.** Separate temperatures and various time programs can be set for each room (see p. 8-9). Current consumptions and a "history" are easy to read. The thermostat detects an open window and reacts accordingly ("open window" function). The "out of home" function reduces all programmed devices by a certain temperature. The automatic function detects presence and absence and adapts to your heating requirements. The DSM thermostat makes your heater including ErP-Ready, connection cable 1.5 m with plug.

| Model<br>white | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| SPH 750 DSM    | 0,75       | 750 x 500 x 90               | 18,30                  | 429 754 720  | 434,00          |
| SPH 1000 DSM   | 1,00       | 750 x 500 x 90               | 18,30                  | 429 754 721  | 444,00          |
| SPH 1200 DSM   | 1,20       | 750 x 500 x 90               | 18,30                  | 429 754 722  | 453,00          |
| SPH 1500 DSM   | 1,50       | 1050 x 500 x 90              | 24,00                  | 429 754 723  | 486,00          |
| SPH 2000 DSM   | 2,00       | 1050 x 500 x 90              | 24,00                  | 429 754 724  | 509,00          |
| SPH 1200 H DSM | 1,00       | 500 x 1050 x 90              | 18,30                  | 429 754 725  | 501,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model<br>anthracite | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------------|------------|------------------------------|------------------------|--------------|-----------------|
| SPH-Z 750 DSM       | 0,75       | 750 x 500 x 90               | 18,30                  | 429 754 770  | 533,00          |
| SPH-Z 1000 DSM      | 1,00       | 750 x 500 x 90               | 18,30                  | 429 754 771  | 543,00          |
| SPH-Z 1200 DSM      | 1,20       | 750 x 500 x 90               | 18,30                  | 429 754 772  | 552,00          |
| SPH-Z 1500 DSM      | 1,50       | 1050 x 500 x 90              | 24,00                  | 429 754 773  | 585,00          |
| SPH-Z 2000 DSM      | 2,00       | 1050 x 500 x 90              | 24,00                  | 429 754 774  | 608,00          |
| SPH-Z 1200 H DSM    | 1,00       | 500 x 1050 x 90              | 18,30                  | 429 754 775  | 600,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.



## SPH RF

Ultra-flat thermal convector. Horizontal arrangement of the design strips, with special heat storage stones for an optimum between short heating times and long heat emission. With built-in radio receiver for control with an external radio thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Required for control via the Internet, range in the building approx. 30 m (depending on type), radio frequency 868 MHz (standard EN 300 200), for ECO interface (see pages 12-13), connecting cable 1.5 m with plug.

### IP 20

The TPF-ECO & ECO radio thermostat interface must be ordered separately for all RF models. This device may only be used in conjunction with an external weekday control (see page 121).

| Model<br>white | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| SPH 750 RF     | 0,75       | 750 x 500 x 90               | 18,30                  | 429 754 730  | 394,00          |
| SPH 1000 RF    | 1,00       | 750 x 500 x 90               | 18,30                  | 429 754 731  | 404,00          |
| SPH 1200 RF    | 1,20       | 750 x 500 x 90               | 18,30                  | 429 754 732  | 417,00          |
| SPH 1500 RF    | 1,50       | 1050 x 500 x 90              | 24,00                  | 429 754 733  | 451,00          |
| SPH 2000 RF    | 2,00       | 1050 x 500 x 90              | 24,00                  | 429 754 734  | 473,00          |
| SPH 1200 H RF  | 1,00       | 500 x 1050 x 90              | 18,30                  | 429 754 735  | 465,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model<br>anthracite | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------------|------------|------------------------------|------------------------|--------------|-----------------|
| SPH-Z 750 RF        | 0,75       | 750 x 500 x 90               | 18,30                  | 429 754 780  | 493,00          |
| SPH-Z 1000 RF       | 1,00       | 750 x 500 x 90               | 18,30                  | 429 754 781  | 503,00          |
| SPH-Z 1200 RF       | 1,20       | 750 x 500 x 90               | 18,30                  | 429 754 782  | 516,00          |
| SPH-Z 1500 RF       | 1,50       | 1050 x 500 x 90              | 24,00                  | 429 754 783  | 550,00          |
| SPH-Z 2000 RF       | 2,00       | 1050 x 500 x 90              | 24,00                  | 429 754 784  | 572,00          |
| SPH-Z 1200 H RF     | 1,00       | 500 x 1050 x 90              | 18,30                  | 429 754 785  | 564,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

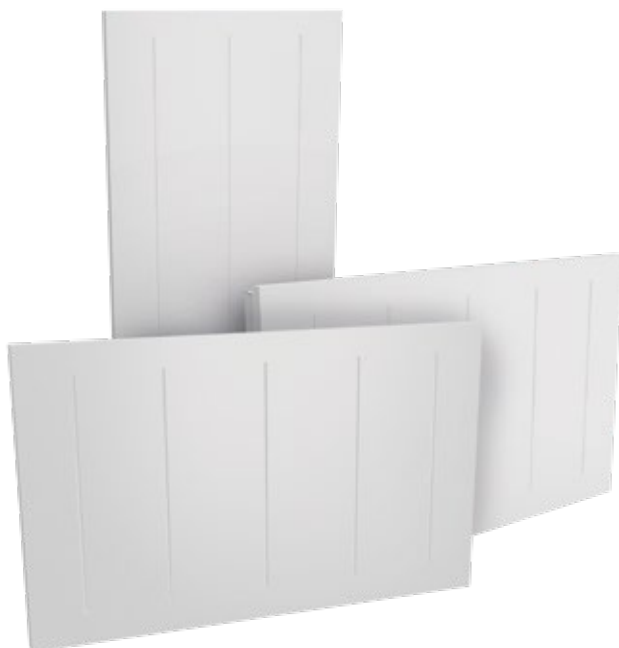
# Wall convector VPN

ULTRA-FLAT AND EXCEPTIONAL DESIGN!

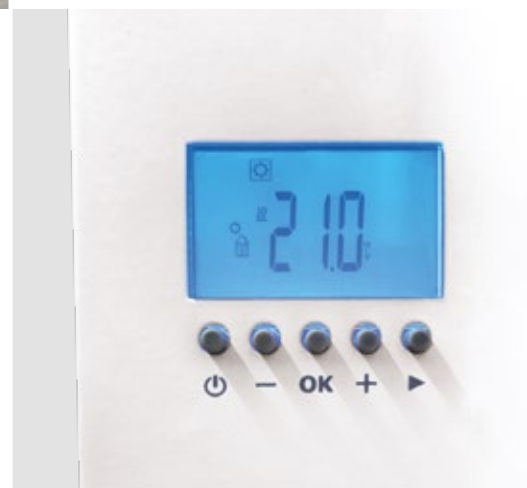


## ▲ Ultra-flat and exceptional design!

The SPH series convinces with its unique flat design of only 6,8cm.



The built-in thermostats have an "open window" function and various temperature programs, which greatly simplify the operation of the heaters.



◀ The modern, timeless design fulfills functionality and economy in one device.



All RAL colors are available upon request.  
Extra charge: 99,00 €

**VPN**

available from 01.08.2020

Vertical arrangement of the design strips, inexpensive and effective wall convector, which quickly and reliably transfers the heat generated in the aluminum heating element to the room by convection. With its attractive front, it is the perfect solution for modern rooms.

| Model<br>white | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| VPN 750 ICT    | 0,75       | 750 x 450 x 68               | 8,70                   | 429 754 800  | 283,00          |
| VPN 1000 ICT   | 1,00       | 750 x 450 x 68               | 8,70                   | 429 754 801  | 295,00          |
| VPN 1200 ICT   | 1,20       | 750 x 450 x 68               | 8,70                   | 429 754 802  | 308,00          |
| VPN 1500 ICT   | 1,50       | 1050 x 450 x 68              | 12,50                  | 429 754 803  | 360,00          |
| VPN 2000 ICT   | 2,00       | 1050 x 450 x 68              | 12,50                  | 429 754 804  | 386,00          |
| VPN 1200 H ICT | 1,20       | 450 x 1050 x 68              | 8,70                   | 429 754 805  | 378,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model<br>anthracite | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------------|------------|------------------------------|------------------------|--------------|-----------------|
| VPN-Z 750 ICT       | 0,75       | 750 x 450 x 68               | 8,70                   | 429 754 850  | 382,00          |
| VPN-Z 1000 ICT      | 1,00       | 750 x 450 x 68               | 8,70                   | 429 754 851  | 394,00          |
| VPN-Z 1200 ICT      | 1,20       | 750 x 450 x 68               | 8,70                   | 429 754 852  | 407,00          |
| VPN-Z 1500 ICT      | 1,50       | 1050 x 450 x 68              | 12,50                  | 429 754 853  | 459,00          |
| VPN-Z 2000 ICT      | 2,00       | 1050 x 450 x 68              | 12,50                  | 429 754 854  | 485,00          |
| VPN-Z 1200 H ICT    | 1,20       | 450 x 1050 x 68              | 8,70                   | 429 754 855  | 475,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

# WALL MOUNTED CHM Convecto-Rad

## FAST HEATING



▲ With special-heat-storage stone



### ▲ A unique combination of Radiant and convected heat

Wall Mounted 'ConvectoRad' heaters with the dual advantages of Radiant and convected heat, complete with energy efficient partial heat storage. Series CHM is distinguished by the following properties:

- Quick warmth generation
- Reduced weight
- Long-maintained warmth due to the special storage stone
- Higher heat release due to special shape of the surface



All RAL colors are available upon request.  
Extra charge: 99,00 €



With the new DSM thermostat, your CHM heater is easily controllable over the Internet. Safe, clean and easy to use. No maintenance required, with 100% performance. The improved material composition and refinement of the surface results in a more uniform heat dissipation.



# Direct heater

## Series CHM



### Wall convector CHM DSM

Exclusive electric heater combines the features and design of a wall convector and a panel storage heater, with built-in programmable DSM thermostat: weekly & daily programs, backlighting, automatic operation, frost protection, time-limited temperature setting, various temperature programs. With electronic room temperature control and weekday control. Open window detection. Adaptive start control. Internet option (see page 121), connecting cable 1.5 m with plug.

### Wall convector CHM RF



As DSM, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), for ECO interface (see page 12-13). **IP 20. The TPF ECO thermostat must be ordered separately for all RF models (see page 121).**

| Model<br>white | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| CHM 500 DSM    | 0,50       | 380 x 630 x 70               | 10,00                  | 440 605 330  | 557,00          |
| CHM 1000 DSM   | 1,00       | 680 x 630 x 70               | 16,50                  | 440 610 330  | 652,00          |
| CHM 1500 DSM   | 1,50       | 980 x 630 x 70               | 23,50                  | 440 615 330  | 766,00          |
| CHM 2000 DSM   | 2,00       | 980 x 630 x 70               | 23,50                  | 440 620 330  | 818,00          |
| CHM 1000 H DSM | 1,00       | 380 x 1240 x 70              | 16,50                  | 440 110 330  | 818,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model<br>anthracite | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------------|------------|------------------------------|------------------------|--------------|-----------------|
| CHM-Z 500 DSM       | 0,50       | 380 x 630 x 70               | 10,00                  | 440 605 730  | 656,00          |
| CHM-Z 1000 DSM      | 1,00       | 680 x 630 x 70               | 16,50                  | 440 610 730  | 751,00          |
| CHM-Z 1500 DSM      | 1,50       | 980 x 630 x 70               | 23,50                  | 440 615 730  | 865,00          |
| CHM-Z 2000 DSM      | 2,00       | 980 x 630 x 70               | 23,50                  | 440 620 730  | 916,00          |
| CHM-Z 1000 H DSM    | 1,00       | 380 x 1240 x 70              | 16,50                  | 440 110 730  | 916,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model<br>white | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| CHM 500 RF     | 0,50       | 380 x 630 x 70               | 10,00                  | 440 605 950  | 522,00          |
| CHM 1000 RF    | 1,00       | 680 x 630 x 70               | 16,50                  | 440 610 950  | 620,00          |
| CHM 1500 RF    | 1,50       | 980 x 630 x 70               | 23,50                  | 440 615 950  | 738,00          |
| CHM 2000 RF    | 2,00       | 980 x 630 x 70               | 23,50                  | 440 620 950  | 792,00          |
| CHM 1000 H RF  | 1,00       | 380 x 1240 x 70              | 16,50                  | 440 110 950  | 792,00          |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

# Direct heater

Series CHM



DIRECT HEATERS

## Wall convector CHM Plus

The "plus" thermostat for easy programming. The thermostat detects open windows and occupies an additive start control with various daily and weekly programs. Large display for good device operation, connection cable 1.5 m with plug.

| Model anthracite | Power [kW] | Dimensions W x H x D [mm] | Weight [kg approx.] | Order number | Price [Euro] |
|------------------|------------|---------------------------|---------------------|--------------|--------------|
| CHM-Z 500 RF     | 0,50       | 380 x 630 x 70            | 10,00               | 440 605 750  | 621,00       |
| CHM-Z 1000 RF    | 1,00       | 680 x 630 x 70            | 16,50               | 440 610 750  | 719,00       |
| CHM-Z 1500 RF    | 1,50       | 980 x 630 x 70            | 23,50               | 440 615 750  | 837,00       |
| CHM-Z 2000 RF    | 2,00       | 980 x 630 x 70            | 23,50               | 440 620 750  | 891,00       |
| CHM-Z 1000 H RF  | 1,00       | 380 x 1240 x 70           | 16,50               | 440 110 750  | 891,00       |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model white     | Power [kW] | Dimensions W x H x D [mm] | Weight [kg approx.] | Order number | Price [Euro] |
|-----------------|------------|---------------------------|---------------------|--------------|--------------|
| CHM 500 Plus    | 0,50       | 380 x 630 x 70            | 10,00               | 440 605 940  | 501,00       |
| CHM 1000 Plus   | 1,00       | 680 x 630 x 70            | 16,50               | 440 610 940  | 600,00       |
| CHM 1500 Plus   | 1,50       | 980 x 630 x 70            | 23,50               | 440 615 940  | 718,00       |
| CHM 2000 Plus   | 2,00       | 980 x 630 x 70            | 23,50               | 440 620 940  | 771,00       |
| CHM 1000 H Plus | 1,00       | 380 x 1240 x 70           | 16,50               | 440 110 940  | 771,00       |

Discount group TT\_200

All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

| Model anthracite  | Power [kW] | Dimensions W x H x D [mm] | Weight [kg approx.] | Order number | Price [Euro] |
|-------------------|------------|---------------------------|---------------------|--------------|--------------|
| CHM-Z 500 Plus    | 0,50       | 380 x 630 x 70            | 10,00               | 440 605 740  | 600,00       |
| CHM-Z 1000 Plus   | 1,00       | 680 x 630 x 70            | 16,50               | 440 610 740  | 699,00       |
| CHM-Z 1500 Plus   | 1,50       | 980 x 630 x 70            | 23,50               | 440 615 740  | 817,00       |
| CHM-Z 2000 Plus   | 2,00       | 980 x 630 x 70            | 23,50               | 440 620 740  | 870,00       |
| CHM-Z 1000 H Plus | 1,00       | 380 x 1240 x 70           | 16,50               | 440 110 960  | 870,00       |

Discount group TT\_200

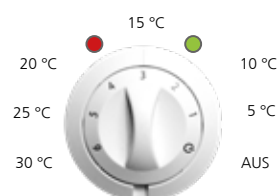
All devices can also be ordered in IPX4 for 38.00 Euro extra charge.

# CONVECTOR CPH CVS

WITH SPECIAL **CERAMIC HEAT STORAGE**



- Simple operating
- Adjustment range in 6 levels
- level 0 = OFF
- 6 levels from 5 °C to 30 °C
- Temperature detector is integrated in the lateral surface
- Anti-freeze mode can be set



## Operating displays



Device is "ON" and in heating mode



Device is "ON" but no heating mode



Device is "OFF"

Thermo-regulator of the "E" series



The desired room temperature is regulated by a thermoregulator built-in into the device. For this purpose, you can set the regulator button to 6 different levels from level 1 (5 °C, anti-freeze) to level 6 (approx. 30 °C).

The associated temperature sensor is located on the underside of the side panel and is set by your installer.



# Direct heater

## Convactor Series CPH CVS



### Convactor CPH, CPH E

With special ceramic storage, Aluminium grill outlet, antifreeze function, safety thermostat, sheet steel housing, cable approx. 0,75 m long, 230 V~ connection, 5 °C to 35 °C, colour RAL 9010, protection class I. E-Series with electronic room temperature control. Incl. stands. **Mobile version. IP 24**



### Convactor CVS, CVS E

Aerial outlet of anodised aluminium, bipolar switch "On/Off" and capillary controller as temperature regulator, antifreeze function, safety thermostat, sheet steel housing, cable approx. 1m long, 230 V~ connection, 5 °C to 35 °C, Colour RAL 9002, protection class I. E-Series with electronic room temperature control. Incl. stands. **Mobile version. IP 24**



| Model      | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|------------|------------|------------------------------|------------------------|--------------|-----------------|
| CPH 1000   | 1,00       | 415 x 445 x 85               | 8,00                   | 429 753 102  | 260,00          |
| CPH 1500   | 1,50       | 565 x 445 x 85               | 10,00                  | 429 753 104  | 283,00          |
| CPH 2000   | 2,00       | 695 x 445 x 85               | 13,00                  | 429 753 106  | 314,00          |
| CPH 2400   | 2,40       | 915 x 445 x 85               | 16,00                  | 429 753 108  | 325,00          |
| CPH 1000 E | 1,00       | 415 x 445 x 85               | 8,00                   | 429 753 302  | 308,00          |
| CPH 1500 E | 1,50       | 565 x 445 x 85               | 10,00                  | 429 753 304  | 331,00          |
| CPH 2000 E | 2,00       | 695 x 445 x 85               | 13,00                  | 429 753 306  | 362,00          |
| CPH 2400 E | 2,40       | 915 x 445 x 85               | 16,00                  | 429 753 308  | 374,00          |

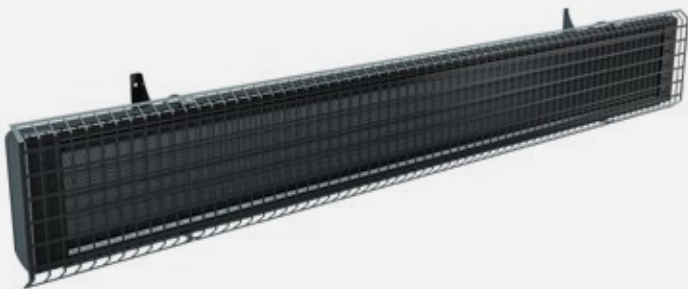
Discount group TT\_200

| Model      | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|------------|------------|------------------------------|------------------------|--------------|-----------------|
| CVS 501    | 0,50       | 345 x 445 x 85               | 3,70                   | 429 752 100  | 158,00          |
| CVS 1001   | 1,00       | 415 x 445 x 85               | 4,80                   | 429 752 102  | 181,00          |
| CVS 1501   | 1,50       | 565 x 445 x 85               | 6,00                   | 429 752 104  | 199,00          |
| CVS 2001   | 2,00       | 695 x 445 x 85               | 7,00                   | 429 752 106  | 212,00          |
| CVS 2501   | 2,40       | 915 x 445 x 85               | 8,40                   | 429 752 107  | 227,00          |
| CVS 501 E  | 0,50       | 345 x 445 x 85               | 3,70                   | 429 752 130  | 209,00          |
| CVS 1001 E | 1,00       | 415 x 445 x 85               | 4,80                   | 429 752 132  | 232,00          |
| CVS 1501 E | 1,50       | 565 x 445 x 85               | 6,00                   | 429 752 134  | 249,00          |
| CVS 2001 E | 2,00       | 695 x 445 x 85               | 7,00                   | 429 752 136  | 262,00          |
| CVS 2501 E | 2,40       | 915 x 445 x 85               | 8,40                   | 429 752 137  | 278,00          |

Discount group TT\_200

# Direct heater

Church Pew heater KBH, infrared heaters



## Church Pew heater KBH

KBH radiant heating plates are designed for installation under stable pews. The panels heat the room in which they are installed (zone heating) by means of the radiation and convection part. This ensures thermal comfort for visitors with minimal operating costs.



| Model  | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------|------------|------------------------------|------------------------|--------------|-----------------|
| KBH 02 | 0,2        | 730 x 155 x 155              | 3,8                    | 437 000 031  | 399,00 €        |
| KBH 04 | 0,4        | 1096 x 155 x 155             | 5,3                    | 437 000 032  | 439,00 €        |
| KBH 06 | 0,6        | 1596 x 155 x 155             | 7,5                    | 437 000 033  | 489,00 €        |

Discount group TT\_800

# Direct heater

Quarz radiator, frost guard



## Quarz heater Q 1201

Two heating levels by pull switch, swiveling reflector, simple wall mounting, direct connection in the middle of radiator back, 230V~, protection class I.

**IP 24**

## Frost guard FW 501

For tempering and frost protection, for guest toilets, basement rooms, winter gardens etc., thermostat continuously variable, indicator lamp, cable with 230 V~ protective contact plug, protection class I packaging unit 12 pieces. Temperature of 5 °C - 16 °C.

**IP 21**



| Model                 | Power [KW]     | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------------|----------------|------------------------------|------------------------|--------------|-----------------|
| Q 1201                | 0,40/0,80/1,20 | 540 x 140 x 90               | 2,00                   | 911 361 922  | 72,00           |
| FW 501                | 0,50           | 240 x 240 x 105              | 1,00                   | 427 000 501  | 42,00           |
| Discount group TT_200 |                |                              |                        |              |                 |

# Direct heater

Terrace radiator Desino TS

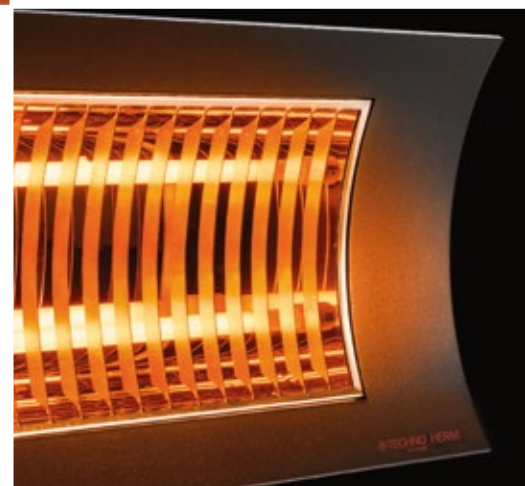


▲ Also available in white.

◀ If mounted on the foot Desino TS heats up to 8 sqm effectively and conveniently.

## ▲ LOW GLARE IR-B Carbon heating technology!

**The Smart solution, refined in Design and with ultramodern technology that will perfectly heat your space.** Thanks to the Dual-Element Radiant heating system IR-B carbon, the low Glare infrared waves generated by Desino TS provide energy-efficient warmth to your indoor or outdoor spaces blending seamlessly into your property's architectural style. A perfect combination between immediate heat and reduced glare, to create a welcoming atmosphere in your spaces, that does not interfere with existing lighting. Enjoy all year round the warm, soft and Low Glare light that really makes the difference.



◀ **Desino TS Remote (sold separately) allows you to choose the comfort level for each zone in your commercial space, in a practical manner with minimum effort.** The practicality and efficiency of this wireless solution is able to manage remote control of up to 6 heaters, using a single remote control unit. DESINO TS Remote makes significant energy saving possible, thanks to two different power level settings (1000W or 2000W), for each lamp, even from a distance of 20 metres. However, the DESINO TS can also be used without the remote control and can be connected to an external switch.

# Direct heater



## Desino TS

Whenever it is there, your space is lit up with new emotions. It's DESINO TS, the brand-new Infrared Radiant heater by TECHNO-THERM. The Smart solution, refined in Design and with ultra-modern technology that will perfectly heat your space. Thanks to the Dual-Element Radiant heating system IR-B carbon, the low Glare infrared waves generated by DESINO TS provide energy-efficient warmth to your indoor or outdoor spaces blending seamlessly into your property's architectural style. Enjoy all year round the warm, soft and Low Glare light that really makes the difference.

## Terrace radiator

The TST heat radiator was developed for zone heating of conservatories, patios, roofed balconies, pavilions and tents, churches, etc. This heater can be used in areas which are not directly exposed to weather factors. Protection class I, Assembly brackets and a 2 m connection cable and a plug are included in the delivery.

**IP 44**



| Model           | Power [KW]  | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|-------------|------------------------------|------------------------|--------------|-----------------|
| Desino TS white | 1,00 / 2,00 | 600 x 250 x 230              | 5,20                   | 620 600 201  | 399,00          |
| Desino TS black | 1,00 / 2,00 | 600 x 250 x 230              | 5,20                   | 620 600 200  | 399,00          |
| Foot white      |             | 52 x 212 x 52                | 17,20                  | 620 900 011  | 365,00          |
| Foot black      |             | 52 x 212 x 52                | 17,20                  | 620 900 010  | 365,00          |
| Remote Control  |             | 105 x 45 x 6,8               | 0,20                   | 620 900 020  | 66,00           |

Discount group TT\_800

| Model   | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------|------------|------------------------------|------------------------|--------------|-----------------|
| TST 100 | 1,00       | 1080 x 140 x 45              | 3,30                   | 620 600 100  | 477,00          |
| TST 150 | 1,50       | 1580 x 140 x 45              | 4,40                   | 620 600 190  | 590,00          |

Discount group TT\_800

# BATHROOM AND TOWEL RAIL HEATERS

## WARMTH AND AESTHETICS COMBINED

To meet special requirements of your application, bathroom heaters from TECHNOTHERM are available in all current sizes and with different performance parameters. There are 5 types of these heaters.

Each of them has its own special advantage:

- |                                                           |                |
|-----------------------------------------------------------|----------------|
| • Unique towel rail radiators with special heat retention | Model „HR KSB“ |
| • High gloss finish                                       | Model „Chrom“  |
| • Practical and pleasing 'to the eye'                     | Model „HR“     |
| • Elegant and luxurious                                   | Model „Dream“  |

Our bathroom radiators are powerful, comfortable, safe and reliable. Radiator types of this series have not only an attractive appearance. They fulfill the requirements of the protective class IPX4 and are especially suitable for damp rooms. A warm bathroom and soft and cuddly towels – feeling good at its purest.

**Create a warm bathroom and cosy towels!**



# Bathroom Radiator

Towel radiator series HR with heat retention tablets



## Bathroom radiator HR RF

Bathroom heating with individually welded ribbed structure, surface white powder coated RAL 9003, only 70 mm deep, e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13).

IP 24

The TPF-ECO thermostat must be ordered separately for all RF models (see page 121).



## Bathroom radiator HR DSM

Bathroom heating with individually welded ribbed structure, surface white powder coated RAL 9003, only 70 mm deep, with DSM thermostat. The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 121) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 8-9).

IP 24



All RAL colors are available upon request.  
Extra charge: 169,00 €



| Model                 | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------------|------------|------------------------------|------------------------|--------------|-----------------|
| HR 1200 DSM           | 1,20       | 380 x 1240 x 70              | 35,00                  | 450 112 973  | 1.131,00        |
| HR 1200 RF            | 1,20       | 380 x 1240 x 70              | 35,00                  | 450 112 953  | 1.113,00        |
| Discount group TT_300 |            |                              |                        |              |                 |

# Bathroom Towel Rail Heaters

Towel rail series HR, HR CHROME



## Towel rail HR

Towel rail heater, remarkable for its beautiful shape and stable construction, colour white similar to RAL 9010, thermo fluid frost-proof up to - 20 °C, 230 V~, protection class I, thermostat with LED, temperature range 20 °C – 60 °C adjustable in 10 °C steps, scratch-proof powder enameled, no visible weld seams, plug wire 1,5 m.

**IP X5**

## Towel rail HR chrom

In new robust design, colour: chrom, heater for the towel, remarkable for its beautiful shape and stable construction, thermo fluid frost-proof up to 20 °C, 230 V~, protection class I, thermostat with LED, temperature range 20 °C – 60 °C adjustable in 10 °C steps, scratch-proof powder enameled, no visible weld seams, plug wire 1,5 m.

**IP X5**

| Model     | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------|------------|------------------------------|------------------------|--------------|-----------------|
| HR 40/80  | 0,30       | 400 x 775 x 85               | 8,80                   | 427 010 408  | 256,00          |
| HR 40/120 | 0,60       | 400 x 1175 x 85              | 15,60                  | 427 010 412  | 331,00          |
| HR 40/180 | 1,00       | 400 x 1775 x 85              | 23,70                  | 427 010 418  | 492,00          |
| HR 50/80  | 0,30       | 500 x 775 x 85               | 10,80                  | 427 010 508  | 268,00          |
| HR 50/120 | 0,60       | 500 x 1175 x 85              | 14,50                  | 427 010 512  | 353,00          |
| HR 50/180 | 1,00       | 500 x 1775 x 85              | 15,00                  | 427 010 518  | 513,00          |
| HR 60/120 | 0,60       | 600 x 1175 x 85              | 16,20                  | 427 010 612  | 374,00          |
| HR 60/180 | 1,00       | 600 x 1775 x 85              | 24,70                  | 427 010 618  | 534,00          |

Discount group TT\_300

| Model      | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|------------|------------|------------------------------|------------------------|--------------|-----------------|
| HRC 50/80  | 0,25       | 500 x 775 x 85               | 11,00                  | 427 010 702  | 445,00          |
| HRC 50/120 | 0,40       | 500 x 1175 x 85              | 15,00                  | 427 010 704  | 504,00          |
| HRC 50/180 | 0,50       | 500 x 1775 x 85              | 22,00                  | 427 010 705  | 686,00          |
| HRC 60/120 | 0,40       | 600 x 1175 x 85              | 16,20                  | 427 010 714  | 534,00          |
| HRC 60/180 | 0,60       | 600 x 1775 x 85              | 16,20                  | 427 010 716  | 642,00          |
| HRC 75/80  | 0,35       | 755 x 775 x 85               | 15,00                  | 427 010 733  | 499,00          |
| HRC 75/120 | 0,50       | 755 x 1175 x 85              | 23,00                  | 427 010 735  | 605,00          |
| HRC 75/180 | 0,70       | 755 x 1775 x 85              | 28,00                  | 427 010 737  | 802,00          |

Discount group TT\_300

# Bathroom dryer DREAM

HIGH-QUALITY **GLASS FRONT** WITH TOUCHSCREEN



Essential lines, rounded edges, thin profile. The purity of glass, a natural material that accumulates heat and releases it gently. By passing your hand over the surface, DREAM is at your service and displays the required temperature, time and operation. COMFORT, ECO, ANTI-FREEZE, PROGRAMMED, TIMER 5 different operating modes, for use that suits all needs and maximum energy saving.

- Electric glass towel warmer / radiator
- Touchscreen commands
- Combined action heating
- Multiple operating modes: suits all needs and provides energy savings
- Allows you to recharge your smartphone
- Heats any bathroom and makes towels warm and comfortable
- 2 brushed aluminium towel rails, with height adjustment

▼ With touchscreen control panel



Towel dryer Dream



## IP 24

Discount group TT\_300

# INFRARED HEATER

FUNCTIONALITY MEETS **AESTHETICS!**

**The Infrared panel ISP is a unique heating system with exclusive design.**

These infrared heaters are primarily intended for heating of interior rooms. They make a room not only warm, but also good looking since they also act as a significant element of interior design. The panels are provided with heat insulation which impedes outflow of heat into the structure behind the heating panel. They are equipped with temperature limiting thermostats and adaptable fixing brackets. Thanks to these brackets, they can be fastened both horizontally and vertically. The unique ISP infrared panel unites the functionality of a modern electrical heater (cosy warmth at low cost) and a special design.

The infrared heater from TECHNOTHERM is available in 4 different versions:

- **Exclusive glass design**
- **High quality mirror glass**
- **High-quality motif pictures**
- **Various Colours in metal finish**





# Infrared heater ISP

## INFRARED PANEL ISP



- ▲ They are equipped with temperature limiting thermostats and adaptable fixing brackets. Thanks to these brackets, they can be fastened both horizontally and vertically. This heater emphasizes that special ambience in your rooms with an aesthetically balanced appearance. ►



All RAL colors are available upon request.  
Extra charge: 119,00 €



**RAL 9003**

**Anthracite light  
Effect-Matt**

**Anthracite dark  
Effect-Matt**

**RAL 9005**

The back of the panels is made of a galvanized steel plate. The front side is powder coated so that the panel remains completely corrosion resistant.

Built-in RF receiver for wireless coupling with the external thermostat

The mounting brackets ensure a simple and safe assembly of the panel. The panel can be mounted both horizontally and vertically on the wall, ceiling mounting is also possible.

The frameless front panel (with rounded corners) is powder coated.

High-quality insulation ensures that 90% of the heat is radiated to the front of the panel.

Precise thermal protection through sensors in two zones.

Specially developed mat in which the electrical element is completely woven in.

Double insulated infrared cable, covered with a concealed silicone jacket for longer life. The cables have a centre-to-centre distance of 15 mm, which ensures even heat radiation from the panel and thus greater comfort due to better and faster perceptible radiation.



# Infrared panel

Series **ISP** · powder-coated · 600 mm



## ISP (height 600 mm)

Front panel powder-coated, with plug, frameless, wall distance 33 mm.

**Suitable for wall and ceiling mounting (see page 124).**



| Model<br>white | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-W 350      | 0,40       | 600 x 600 x 15               | 6,80                   | 880 100 350  | 297,00          |
| ISP-W 450      | 0,50       | 900 x 600 x 15               | 10,60                  | 880 100 450  | 333,00          |
| ISP-W 750      | 0,80       | 1200 x 600 x 15              | 12,80                  | 880 100 750  | 460,00          |
| ISP-W 950      | 1,00       | 1500 x 600 x 15              | 17,10                  | 880 100 950  | 574,00          |
| ISP-W 1200     | 1,25       | 1800 x 600 x 15              | 20,30                  | 880 100 120  | 706,00          |

|               |      |                 |       |             |        |
|---------------|------|-----------------|-------|-------------|--------|
| ISP-W 350 RF  | 0,40 | 600 x 600 x 15  | 7,00  | 880 101 350 | 341,00 |
| ISP-W 450 RF  | 0,50 | 900 x 600 x 15  | 10,80 | 880 101 450 | 377,00 |
| ISP-W 750 RF  | 0,80 | 1200 x 600 x 15 | 13,00 | 880 101 750 | 502,00 |
| ISP-W 950 RF  | 1,00 | 1500 x 600 x 15 | 17,30 | 880 101 950 | 617,00 |
| ISP-W 1200 RF | 1,25 | 1800 x 600 x 15 | 20,50 | 880 101 120 | 748,00 |

Discount group TT\_200

| Model<br>anthracite light | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-G 350                 | 0,40       | 600 x 600 x 15               | 6,80                   | 880 300 351  | 396,00          |
| ISP-G 450                 | 0,50       | 900 x 600 x 15               | 10,60                  | 880 300 451  | 433,00          |
| ISP-G 750                 | 0,80       | 1200 x 600 x 15              | 12,80                  | 880 300 751  | 558,00          |
| ISP-G 950                 | 1,00       | 1500 x 600 x 15              | 17,10                  | 880 300 951  | 674,00          |
| ISP-G 1200                | 1,25       | 1800 x 600 x 15              | 20,30                  | 880 300 121  | 804,00          |

|               |      |                 |       |             |        |
|---------------|------|-----------------|-------|-------------|--------|
| ISP-G 350 RF  | 0,40 | 600 x 600 x 15  | 7,00  | 880 301 351 | 440,00 |
| ISP-G 450 RF  | 0,50 | 900 x 600 x 15  | 10,80 | 880 301 451 | 476,00 |
| ISP-G 750 RF  | 0,80 | 1200 x 600 x 15 | 13,00 | 880 301 751 | 602,00 |
| ISP-G 950 RF  | 1,00 | 1500 x 600 x 15 | 17,30 | 880 301 951 | 716,00 |
| ISP-G 1200 RF | 1,25 | 1800 x 600 x 15 | 20,50 | 880 301 121 | 847,00 |

Discount group TT\_200



### ISP RF (height 600 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TY-DOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121-122).

For wall and ceiling mounting (see page 124).



| Model<br>anthracite dark | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-Z 350                | 0,40       | 600 x 600 x 15               | 6,80                   | 880 300 350  | 396,00          |
| ISP-Z 450                | 0,50       | 900 x 600 x 15               | 10,60                  | 880 300 450  | 433,00          |
| ISP-Z 750                | 0,80       | 1200 x 600 x 15              | 12,80                  | 880 300 750  | 558,00          |
| ISP-Z 950                | 1,00       | 1500 x 600 x 15              | 17,10                  | 880 300 950  | 674,00          |
| ISP-Z 1200               | 1,25       | 1800 x 600 x 15              | 20,30                  | 880 300 120  | 804,00          |
| ISP-Z 350 RF             | 0,40       | 600 x 600 x 15               | 7,00                   | 880 301 350  | 440,00          |
| ISP-Z 450 RF             | 0,50       | 900 x 600 x 15               | 10,80                  | 880 301 450  | 476,00          |
| ISP-Z 750 RF             | 0,80       | 1200 x 600 x 15              | 13,00                  | 880 301 750  | 602,00          |
| ISP-Z 950 RF             | 1,00       | 1500 x 600 x 15              | 17,30                  | 880 301 950  | 716,00          |
| ISP-Z 1200 RF            | 1,25       | 1800 x 600 x 15              | 20,50                  | 880 301 120  | 847,00          |

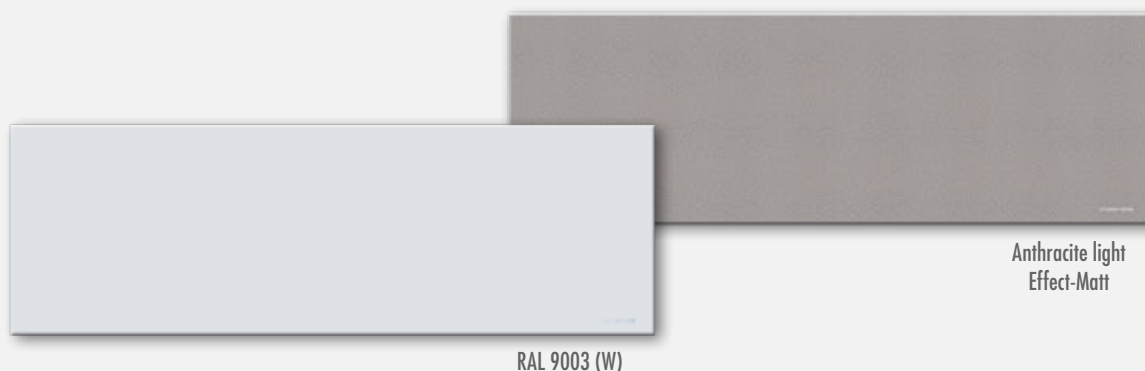
Discount group TT\_200

| Model<br>black | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-B 350      | 0,40       | 600 x 600 x 15               | 6,80                   | 880 100 351  | 297,00          |
| ISP-B 450      | 0,50       | 900 x 600 x 15               | 10,60                  | 880 100 451  | 333,00          |
| ISP-B 750      | 0,80       | 1200 x 600 x 15              | 12,80                  | 880 100 751  | 460,00          |
| ISP-B 950      | 1,00       | 1500 x 600 x 15              | 17,10                  | 880 100 951  | 574,00          |
| ISP-B 1200     | 1,25       | 1800 x 600 x 15              | 20,30                  | 880 100 121  | 706,00          |
| ISP-B 350 RF   | 0,40       | 600 x 600 x 15               | 7,00                   | 880 101 351  | 341,00          |
| ISP-B 450 RF   | 0,50       | 900 x 600 x 15               | 10,80                  | 880 101 451  | 377,00          |
| ISP-B 750 RF   | 0,80       | 1200 x 600 x 15              | 13,00                  | 880 101 751  | 502,00          |
| ISP-B 950 RF   | 1,00       | 1500 x 600 x 15              | 17,30                  | 880 101 951  | 617,00          |
| ISP-B 1200 RF  | 1,25       | 1800 x 600 x 15              | 20,50                  | 880 101 121  | 748,00          |

Discount group TT\_200

# Infrared panel

Series **ISP** · powder-coated · 400 mm



## ISP (height 400 mm)

Front panel powder-coated, with plug, frameless, wall distance 33 mm.

**Suitable for wall and ceiling mounting (see page 124).**



| Model<br>white | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-W 351      | 0,40       | 900 x 400 x 15               | 6,80                   | 880 110 350  | 285,00          |
| ISP-W 501      | 0,50       | 1200 x 400 x 15              | 8,80                   | 880 110 500  | 401,00          |
| ISP-W 651      | 0,67       | 1500 x 400 x 15              | 10,80                  | 880 110 650  | 510,00          |
| ISP-W 851      | 0,82       | 1800 x 400 x 15              | 12,80                  | 880 110 850  | 663,00          |

|              |      |                 |       |             |        |
|--------------|------|-----------------|-------|-------------|--------|
| ISP-W 351 RF | 0,40 | 900 x 400 x 15  | 7,00  | 880 111 350 | 329,00 |
| ISP-W 501 RF | 0,50 | 1200 x 400 x 15 | 9,00  | 880 111 500 | 443,00 |
| ISP-W 651 RF | 0,67 | 1500 x 400 x 15 | 11,00 | 880 111 650 | 553,00 |
| ISP-W 851 RF | 0,82 | 1800 x 400 x 15 | 13,00 | 880 111 850 | 706,00 |

Discount group TT\_200

| Model<br>anthracite light | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-G 351                 | 0,40       | 900 x 400 x 15               | 6,80                   | 880 310 351  | 384,00          |
| ISP-G 501                 | 0,50       | 1200 x 400 x 15              | 8,80                   | 880 310 501  | 500,00          |
| ISP-G 651                 | 0,67       | 1500 x 400 x 15              | 10,80                  | 880 310 651  | 609,00          |
| ISP-G 851                 | 0,82       | 1800 x 400 x 15              | 12,80                  | 880 310 851  | 762,00          |

|              |      |                 |       |             |        |
|--------------|------|-----------------|-------|-------------|--------|
| ISP-G 351 RF | 0,40 | 900 x 400 x 15  | 7,00  | 880 311 351 | 428,00 |
| ISP-G 501 RF | 0,50 | 1200 x 400 x 15 | 9,00  | 880 311 501 | 542,00 |
| ISP-G 651 RF | 0,67 | 1500 x 400 x 15 | 11,00 | 880 311 651 | 652,00 |
| ISP-G 851 RF | 0,82 | 1800 x 400 x 15 | 13,00 | 880 311 851 | 805,00 |

Discount group TT\_200



### ISP RF (height 400 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TY-DOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121-122).

For wall and ceiling mounting (see page 124).



| Model<br>anthracite dark | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-Z 351                | 0,40       | 900 x 400 x 15               | 6,80                   | 880 310 350  | 384,00          |
| ISP-Z 501                | 0,50       | 1200 x 400 x 15              | 8,80                   | 880 310 500  | 500,00          |
| ISP-Z 651                | 0,67       | 1500 x 400 x 15              | 10,80                  | 880 310 650  | 609,00          |
| ISP-Z 851                | 0,82       | 1800 x 400 x 15              | 12,80                  | 880 310 850  | 762,00          |
| ISP-Z 351 RF             | 0,40       | 900 x 400 x 15               | 7,00                   | 880 311 350  | 428,00          |
| ISP-Z 501 RF             | 0,50       | 1200 x 400 x 15              | 9,00                   | 880 311 500  | 542,00          |
| ISP-Z 651 RF             | 0,67       | 1500 x 400 x 15              | 11,00                  | 880 311 650  | 652,00          |
| ISP-Z 851 RF             | 0,82       | 1800 x 400 x 15              | 13,00                  | 880 311 850  | 805,00          |

Discount group TT\_200

| Model<br>black | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-B 351      | 0,40       | 900 x 400 x 15               | 6,80                   | 880 110 351  | 285,00          |
| ISP-B 501      | 0,50       | 1200 x 400 x 15              | 8,80                   | 880 110 501  | 401,00          |
| ISP-B 651      | 0,67       | 1500 x 400 x 15              | 10,80                  | 880 110 651  | 510,00          |
| ISP-B 851      | 0,82       | 1800 x 400 x 15              | 12,80                  | 880 110 851  | 663,00          |
| ISP-B 351 RF   | 0,40       | 900 x 400 x 15               | 7,00                   | 880 111 351  | 329,00          |
| ISP-B 501 RF   | 0,50       | 1200 x 400 x 15              | 9,00                   | 880 111 501  | 443,00          |
| ISP-B 651 RF   | 0,67       | 1500 x 400 x 15              | 11,00                  | 880 111 651  | 553,00          |
| ISP-B 851 RF   | 0,82       | 1800 x 400 x 15              | 13,00                  | 880 111 851  | 706,00          |

Discount group TT\_200

# Infrared panel ISP-Design

INFRARED PANEL WITH HIGH-QUALITY GLASS FRONT



**The ISP heat-radiating panel is a unique panel heater. It unites cost-efficiency and glass design in a single device.** This electrical heater will become a significant design element of your home interior. To emphasize a special ambience in your rooms, the panel radiators can be mounted on walls both horizontally and vertically. The glass panels are primarily intended for heating interior rooms and are provided with a so-called "crumble effect". The latter prevents a danger of injuries if the glass panel breaks.

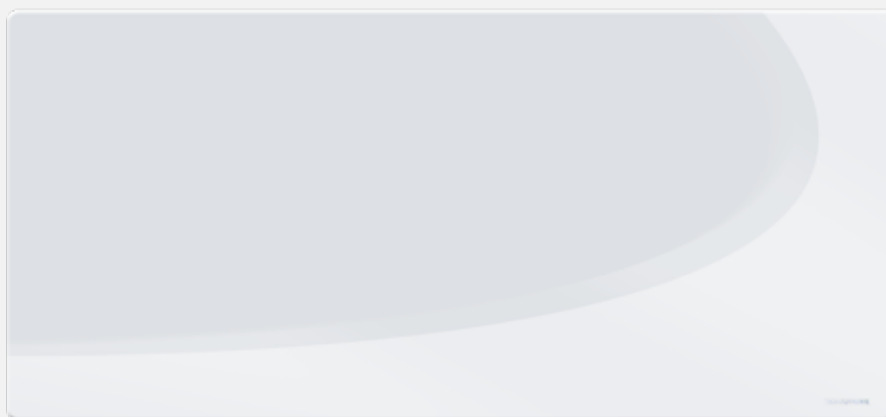
**Its very slender and high-value appearance (only 20 mm) makes it an eye-catcher in your home.**





# Infrared panel

Series **ISP Design** · glass front white · 690 mm



## ISP Design white (height 690 mm)

High quality, elegant front of polished white glass, with rounded edges, frameless design, with plug, wall distance 33 mm.

**Only suitable for wall mounting!**

## ISP Design white RF (height 690 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121-122).

**Only suitable for wall mounting!**



| Model        | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------|------------|------------------------------|------------------------|--------------|-----------------|
| Design-W 450 | 0,50       | 1030 x 690 x 20              | 17,60                  | 880 100 453  | 766,00          |
| Design-W 750 | 0,80       | 1330 x 690 x 20              | 21,80                  | 880 100 753  | 1.010,00        |
| Design-W 950 | 1,00       | 1630 x 690 x 20              | 28,10                  | 880 100 953  | 1.065,00        |

Discount group TT\_200

| Model           | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|------------|------------------------------|------------------------|--------------|-----------------|
| Design-W 450 RF | 0,50       | 1030 x 690 x 20              | 17,80                  | 880 101 453  | 799,00          |
| Design-W 750 RF | 0,80       | 1330 x 690 x 20              | 22,00                  | 880 101 753  | 1.053,00        |
| Design-W 950 RF | 1,00       | 1630 x 690 x 20              | 28,30                  | 880 101 953  | 1.106,00        |

Discount group TT\_200

# Infrared panel

Series **ISP Design** · glass front black · 690 mm



## ISP Design black (height 690 mm)

High quality, elegant front of polished black glass, with rounded edges, frameless design, with plug, wall distance 33 mm.

**Only suitable for wall mounting!**

## ISP Design RF black (height 690 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121-122).

**Only suitable for wall mounting!**



| Model        | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------|------------|------------------------------|------------------------|--------------|-----------------|
| Design-B 450 | 0,50       | 1030 x 690 x 20              | 17,60                  | 880 100 454  | 766,00          |
| Design-B 750 | 0,80       | 1330 x 690 x 20              | 21,80                  | 880 100 754  | 1.010,00        |
| Design-B 950 | 1,00       | 1630 x 690 x 20              | 28,10                  | 880 100 954  | 1.065,00        |

Discount group TT\_200

| Model           | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|------------|------------------------------|------------------------|--------------|-----------------|
| Design-B 450 RF | 0,50       | 1030 x 690 x 20              | 17,80                  | 880 101 454  | 799,00          |
| Design-B 750 RF | 0,80       | 1330 x 690 x 20              | 22,00                  | 880 101 754  | 1.053,00        |
| Design-B 950 RF | 1,00       | 1630 x 690 x 20              | 28,30                  | 880 101 954  | 1.106,00        |

Discount group TT\_200



# Infrared panel

Series mirror



## ISP mirror RF (height 650 mm)

**Elegant Front made of high-quality mirror glass** with radio receiver RF for control of the device, frameless design, high-quality view, backside thermal insulation, quick and precise heating, prevents mold formation, pleasant radiant heat, constant humidity, only 20 mm thin, with connection cable approx. 1 m for immediate use.

**Only suitable for wall mounting!**

**The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121-122).**



| Model        | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------|------------|------------------------------|------------------------|--------------|-----------------|
| Design-S 350 | 0,40       | 650 x 650 x 20               | 12,80                  | 880 100 357  | 568,00          |
| Design-S 750 | 0,80       | 1250 x 650 x 20              | 21,80                  | 880 100 757  | 930,00          |

Discount group TT\_200

| Model           | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|------------|------------------------------|------------------------|--------------|-----------------|
| Design-S 350 RF | 0,40       | 650 x 650 x 20               | 13,00                  | 880 101 357  | 601,00          |
| Design-S 750 RF | 0,80       | 1250 x 650 x 20              | 22,00                  | 880 101 757  | 964,00          |

Discount group TT\_200

# Infrared panel

Infrared panel for integrated ceiling



## ISP for integrated ceiling

**ISP panel for mounting in ceilings** (coffered ceiling) in residential and office space, colour: White

| Model         | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-DK 400    | 0,40       | 595 x 595 x 30               | 6,80                   | 880 120 350  | 336,00          |
| ISP-DK 800    | 0,80       | 1190 x 595 x 30              | 13,00                  | 880 120 600  | 476,00          |
| ISP-DK 400 RF | 0,40       | 595 x 595 x 30               | 7,00                   | 880 121 350  | 371,00          |
| ISP-DK 800 RF | 0,80       | 1190 x 595 x 30              | 13,20                  | 880 121 600  | 510,00          |

Discount group TT\_200

# Infrared panel

Series **ISP Design** · glass front white/black · 454 mm



## ISP Design white (height 454 mm)

High quality, elegant front of polished white glass, with rounded edges, frameless design, with plug, wall distance 33 mm.

Only suitable for wall mounting!

## ISP Design RF white (height 454 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121-122).

Only suitable for wall mounting!



## ISP Design black (height 454 mm)

High quality, elegant front of polished black glass, with rounded edges, frameless design, with plug, wall distance 33 mm.

Only suitable for wall mounting!

## ISP Design RF black (height 454 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121-122).

Only suitable for wall mounting!



| Model           | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|------------|------------------------------|------------------------|--------------|-----------------|
| Design-W 351    | 0,35       | 1055 x 454 x 20              | 11,80                  | 880 110 353  | 565,00          |
| Design-W 501    | 0,50       | 1355 x 454 x 20              | 14,80                  | 880 110 503  | 968,00          |
| Design-W 351 RF | 0,35       | 1055 x 454 x 20              | 12,00                  | 880 111 353  | 598,00          |
| Design-W 501 RF | 0,50       | 1355 x 454 x 20              | 15,00                  | 880 111 503  | 1.008,00        |

Discount group TT\_200

| Model           | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------------|------------|------------------------------|------------------------|--------------|-----------------|
| Design-B 351    | 0,35       | 1055 x 454 x 20              | 11,80                  | 880 110 354  | 565,00          |
| Design-B 501    | 0,50       | 1355 x 454 x 20              | 14,80                  | 880 110 504  | 968,00          |
| Design-B 351 RF | 0,35       | 1055 x 454 x 20              | 12,00                  | 880 111 354  | 598,00          |
| Design-B 501 RF | 0,50       | 1355 x 454 x 20              | 15,00                  | 880 111 504  | 1.008,00        |

Discount group TT\_200

# Infrared panel with motifs

ISP PRINTED OR WITH INDIVIDUAL MOTIF



This infrared radiant panel with motifs is a real eye-catcher. These heating panels are primarily intended for heating of interior rooms. They make a room not only warm, but also good looking since they also act as a significant element of interior design. There are four different motifs available in these infrared heating panels. You can also implement your own motif for an extra charge.

**So you can design your interior individually according to your own taste. Design and warmth - a good match!**



# Infrared panel

Series **ISP** · with motifs · 600 mm



MG = Grain



MB = Beach

## ISP Motiv Grain / Beach (height 600 mm)

**Printed front panel**, powder coating, with plug, frameless, wall distance 33 mm

**Suitable for wall and ceiling mounting (see page 124).**

## ISP RF Motiv Grain / Beach (height 600 mm)

**As standard, but with built-in radio receiver for control with an external thermostat** e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121-122). **Suitable for wall and ceiling mounting (see page 124).**



| Model         | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-MG 750    | 0,80       | 1200 x 600 x 15              | 12,80                  | 880 220 750  | 834,00          |
| ISP-MG 950    | 1,00       | 1500 x 600 x 15              | 17,10                  | 880 220 950  | 949,00          |
| ISP-MG 750 RF | 0,80       | 1200 x 600 x 15              | 13,00                  | 880 221 750  | 878,00          |
| ISP-MG 950 RF | 1,00       | 1500 x 600 x 15              | 17,20                  | 880 221 950  | 992,00          |

Discount group TT\_200

| Model         | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-MB 750    | 0,80       | 1200 x 600 x 15              | 12,80                  | 880 230 750  | 834,00          |
| ISP-MB 950    | 1,00       | 1500 x 600 x 15              | 17,10                  | 880 230 950  | 949,00          |
| ISP-MB 750 RF | 0,80       | 1200 x 600 x 15              | 13,00                  | 880 231 750  | 878,00          |
| ISP-MB 950 RF | 1,00       | 1500 x 600 x 15              | 17,20                  | 880 231 950  | 992,00          |

Discount group TT\_200

# Infrared panel

Series **ISP** · with motifs · 600 mm



C = City



M = Meadow

## ISP Motiv City / Meadow (height 600 mm)

**Printed front panel**, powder coating, with plug, frameless, wall distance 33 mm

**Suitable for wall and ceiling mounting (see page 124).**

## ISP RF Motiv City / Meadow (height 600 mm)

**As standard, but with built-in radio receiver for control with an external thermostat** e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13).

**The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121-122).**

**Suitable for wall and ceiling mounting (see page 124).**



| Model         | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-MC 750    | 0,80       | 1200 x 600 x 15              | 12,80                  | 880 200 750  | 834,00          |
| ISP-MC 950    | 1,00       | 1500 x 600 x 15              | 17,10                  | 880 200 950  | 949,00          |
| ISP-MC 750 RF | 0,80       | 1200 x 600 x 15              | 13,00                  | 880 201 750  | 878,00          |
| ISP-MC 950 RF | 1,00       | 1500 x 600 x 15              | 17,20                  | 880 201 950  | 992,00          |

Discount group TT\_200

| Model         | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------|------------|------------------------------|------------------------|--------------|-----------------|
| ISP-MM 750    | 0,80       | 1200 x 600 x 15              | 12,80                  | 880 210 750  | 834,00          |
| ISP-MM 950    | 1,00       | 1500 x 600 x 15              | 17,10                  | 880 210 950  | 949,00          |
| ISP-MM 750 RF | 0,80       | 1200 x 600 x 15              | 13,00                  | 880 211 750  | 878,00          |
| ISP-MM 950 RF | 1,00       | 1500 x 600 x 15              | 17,20                  | 880 211 950  | 992,00          |

Discount group TT\_200



# Series ISP

WITH ART PRINTING FROM INTERNATIONAL ARTIST



**Sönke Lucht is at home in abstract painting.** An style, which he found by trying out different techniques. His preferred colours of expression are blue and red. What is the message of his paintings? He can't change the world, but he can make people a little happier with his paintings.

**His exhibitions are national/international.**

**In painting he is often guided by a dream or by the picture itself. It is a dialogue with the picture.**

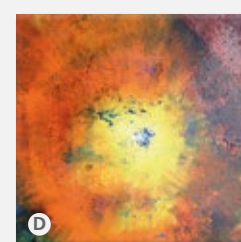
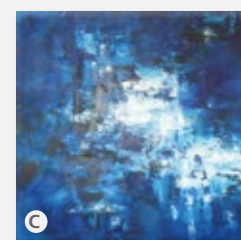
You can choose for your own infrared heating some of these, or on the website below art motives and have them printed on your infrared heater.

More at [www.soenke-lucht.de](http://www.soenke-lucht.de)



# Infrared panel Art Line

Series ISP with **Art Print** or **own motif** · 600 mm



INFRARED  
HEATERS

**Infrared Art Line:** A lot o art motifs - by Sönke Lucht - are available.  
Or choose your personal motif for our infrared radiation panels!

## ISP Art Line, with Art print (height 600 mm)

**Printed front panel, powder coating**, with plug, frameless, wall distance 33 mm. The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121). **Suitable for wall and ceiling mounting** (see page 124).

## ISP with individual motive (height 600 mm)

**Printed front panel, customized motif**, powder coating, with plug, wall distance 33 mm (delivery time about 2-4 weeks). Price on request. **We are happy to help.**



| Model    | Power [kW]     | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro]      |
|----------|----------------|------------------------------|------------------------|--------------|----------------------|
| ISP-AL A | 0,50/0,80/1,00 | 900/1.200/1.500 x 600 x 15   | 10,60/12,80/17,10      | 880 240 001  | 708,00/834,00/949,00 |
| ISP-AL B | 0,50/0,80/1,00 | 900/1.200/1.500 x 600 x 15   | 10,60/12,80/17,10      | 880 270 004  | 708,00/834,00/949,00 |
| ISP-AL C | 0,50/0,80/1,00 | 900/1.200/1.500 x 600 x 15   | 10,60/12,80/17,10      | 880 300 007  | 708,00/834,00/949,00 |
| ISP-AL D | 0,50/0,80/1,00 | 900/1.200/1.500 x 600 x 15   | 10,60/12,80/17,10      | 880 310 008  | 708,00/834,00/949,00 |

Discount group TT\_200

# UNDER-FLOOR HEATER

THE BEST HEATING COMES  
FROM BELOW!

...by that, we mean healthy warmth smoothly released from large surfaces, e.g. floors. Cable heating systems from TECHNOTHERM make your dream of floor heating true, realistic and affordable. Whether direct heating in new buildings or comfortable floor temperature control, e.g. in renovated old buildings. All our cable heating systems have the following advantages in common: more cosiness and living comfort, less energy consumption. The healthy radiant heat allow you to reduce your room temperature settings by 3 °C, but your room will remains as cosy and comfy as before. Surely, it is a good investment.

Available floor heaters from TECHNOTHERM are the following:

- **Standard heating mat**
- **Set of heating mats with various thermostats**

TECHNOTHERM offers you cable heating systems for floor temperature control and direct floor heating. The heating pads are extremely thin and ideally suitable for old buildings. They can also be installed after completion of your renovation project. You can choose almost whichever floor covering material you like. Not only carpets, PVC or cork, but also tiles, parquet or marble.





# Heating mat Warm Floor WFK

COMFORTABLE HEAT COMES FROM BELOW



**They cannot be seen but you can feel the warmth!**

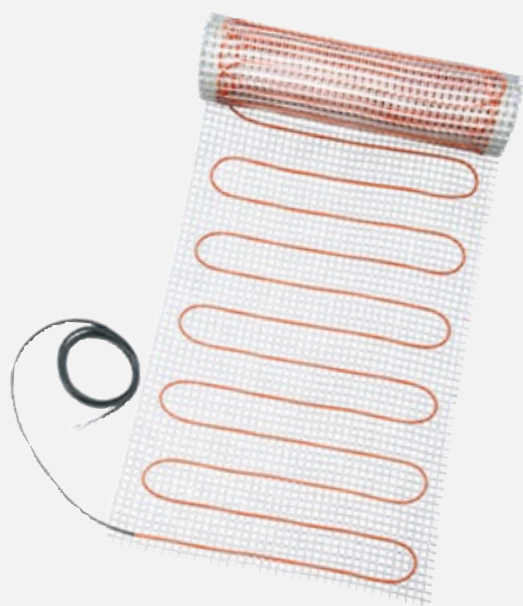
The incomparable thermal comfort of the cable heating systems from TECHNOTHERM.  
Comfortable warmth without radiators - with an ideal temperature profile:

**The feet are comfortably warm, the head remains pleasantly cool.**



# Under-floor heater

Heating mat Warm-Floor WFK



## Heating mat WFK 160 W/m²

The floor temperature control for quick heating and continuous warming of your floor area. For temperature control and as additional heating in old and new buildings. Suitable for carpets, ceramic tiles and parquet floors. Feed in from one side with only one cold wire, simplified installation, easy adaption to the room conditions, saves time and effort. Specific power 160 W/m² Multifilar hot wire, teflon-isolation, coppergrounding conductor, Heating cable sewed on self-adhesive fabric, mat thickness approx. 3 mm, 1 cold wire 4 m length, VDE 0700-96, DIN EN 60335-2-96.

| Model    | Power [KW] | Dimensions<br>W x H [cm] | Area<br>m² | Order number | Price<br>[Euro] |
|----------|------------|--------------------------|------------|--------------|-----------------|
| WFK 0.5  | 0,08       | 50 x 100                 | 0,50       | 143 200 405  | 88,00           |
| WFK 1.0  | 0,16       | 50 x 200                 | 1,00       | 143 200 410  | 112,00          |
| WFK 1.5  | 0,24       | 50 x 300                 | 1,50       | 143 200 415  | 148,00          |
| WFK 2.0  | 0,32       | 50 x 400                 | 2,00       | 143 200 420  | 174,00          |
| WFK 2.5  | 0,40       | 50 x 500                 | 2,50       | 143 200 425  | 210,00          |
| WFK 3.0  | 0,48       | 50 x 600                 | 3,00       | 143 200 430  | 247,00          |
| WFK 4.0  | 0,64       | 50 x 800                 | 4,00       | 143 200 440  | 296,00          |
| WFK 5.0  | 0,80       | 50 x 1000                | 5,00       | 143 200 450  | 369,00          |
| WFK 6.0  | 0,96       | 50 x 1200                | 6,00       | 143 200 460  | 406,00          |
| WFK 7.0  | 1,12       | 50 x 1400                | 7,00       | 143 200 470  | 456,00          |
| WFK 8.0  | 1,28       | 50 x 1600                | 8,00       | 143 200 480  | 516,00          |
| WFK 9.0  | 1,44       | 50 x 1800                | 9,00       | 143 200 490  | 565,00          |
| WFK 10.0 | 1,60       | 50 x 2000                | 10,00      | 143 200 499  | 626,00          |
| WFK 12.0 | 1,92       | 50 x 2400                | 12,00      | 143 200 412  | 802,00          |
| WFK 14.0 | 2,24       | 50 x 2800                | 14,00      | 143 200 414  | 938,00          |

# Under-floor heater

Heating mat Warm-Floor WFK-Set



## Heating mat-set WFK 160 W/m²



**Complete set for floor temperature control consisting of:**

- Heating mat WFK-160 W/sq.m with 1 x 4 m PTC resistor
- Floor thermo-regulator TRT 61-50 with remote sensor
- 1 m flexible protective tube
- Sensor sleeve FH
- With adaptive start control

The TRT 61-50 is a time-controlled universal temperature controller. It allows one or two warm periods a day, eg. from 6am to 10pm for a living room or 6am to 9am and 5pm to 9pm for a bathroom. In between are the economy times. The economy temperature, the controller reduces the set room temperature, will be programmed once.

**Room temperature controller** - The unit regulates the room temperature in the range 5 ° - 30 °C to the desired set temperature. Displayed is numerically the actual room temperature.

**Floor temperature controller** - The unit controls the floor temperature in the range 10 ° - 40 °C to the desired set temperature. The actual room temperature will be shown numerically.

**Room temperature controller with monitoring function** - The unit regulates the room temperature in the range 5 ° - 30 °C to the desired set temperature. The actual room temperature is shown numerically. In addition, the floor temperature is monitored. The maximum floor temperature will be programmed once.

| Model    | Power [KW] | Dimensions<br>W x H [cm] | Area<br>m² | Order number | Price<br>[Euro] |
|----------|------------|--------------------------|------------|--------------|-----------------|
| WFK 0.5  | 0,08       | 50 x 100                 | 0,50       | 143 200 805  | 249,00          |
| WFK 1.0  | 0,16       | 50 x 200                 | 1,00       | 143 200 810  | 274,00          |
| WFK 1.5  | 0,24       | 50 x 300                 | 1,50       | 143 200 815  | 311,00          |
| WFK 2.0  | 0,32       | 50 x 400                 | 2,00       | 143 200 820  | 335,00          |
| WFK 2.5  | 0,40       | 50 x 500                 | 2,50       | 143 200 825  | 372,00          |
| WFK 3.0  | 0,48       | 50 x 600                 | 3,00       | 143 200 830  | 409,00          |
| WFK 4.0  | 0,64       | 50 x 800                 | 4,00       | 143 200 840  | 459,00          |
| WFK 5.0  | 0,80       | 50 x 1000                | 5,00       | 143 200 850  | 532,00          |
| WFK 6.0  | 0,96       | 50 x 1200                | 6,00       | 143 200 860  | 569,00          |
| WFK 7.0  | 1,12       | 50 x 1400                | 7,00       | 143 200 870  | 617,00          |
| WFK 8.0  | 1,28       | 50 x 1600                | 8,00       | 143 200 880  | 679,00          |
| WFK 9.0  | 1,44       | 50 x 1800                | 9,00       | 143 200 890  | 728,00          |
| WFK 10.0 | 1,60       | 50 x 2000                | 10,00      | 143 200 899  | 790,00          |
| WFK 12.0 | 1,92       | 50 x 2400                | 12,00      | 143 200 812  | 966,00          |
| WFK 14.0 | 2,24       | 50 x 2800                | 14,00      | 143 200 814  | 1.099,0         |

Discount group TT\_400

# NATURAL STONE HEATER

## HEALTHY HEAT IN AN ELEGANT FORM!

Natural stone heaters from TECHNOTHERM is a showcase example of our numerous product innovations. Living comfort and elegance are united in a unique way. This exceptional heater is a real eye-catcher, which clearly up-values your home! Its robust design comes from natural stones, which are surely the noblest interior material.

Our natural stone heaters feature the following advantages:

- **Wide choice of types and sizes**
- **Can be mounted on walls vertically and horizontally**
- **IP 66**

Thus they harmonically fit into each ambience - whether they are made of noble marble, or with polished granite or as local Jura of yellow limestone. Moreover, the TECHNOTHERM natural stone heater radiates healthy radiant warmth, which directly heats people and objects in the room without convection.

It is not only the most comfortable heating method, but also the most healthy one since it does not require air circulation. So you can significantly reduce dust, bacteria and pollen in the air. Allergic and sensitive persons can take a deep breath.





# Natural-stone heater TTM-S

THE ALTERNATIVE FOR A HEALTHY  
AND MAINTENANCE-FREE FUTURE



**TECHNOTHERM Natural stone heating systems are a safe and maintenance-free alternative for your future. Lower purchasing costs, no storage of fuels, as well as no maintenance costs are clear arguments.**

No matter whether new construction, conversion or modernization, the natural stone heater is more economical than conventional heating systems. There is hardly no transmission loss, the heat is generated where it is needed: in the living rooms. Especially in the spring or autumn the natural stone heating in the bathroom is an excellent source of heat when the central heating system does not provide the desired comfortable heat.



Please also note our new TRF-N supplementary module for controlling your natural stone heating (see page 115).





From the blocks of natural stone, the individual "in-determinates" are sawn. The natural stone heating gets its first rough form here. ▶

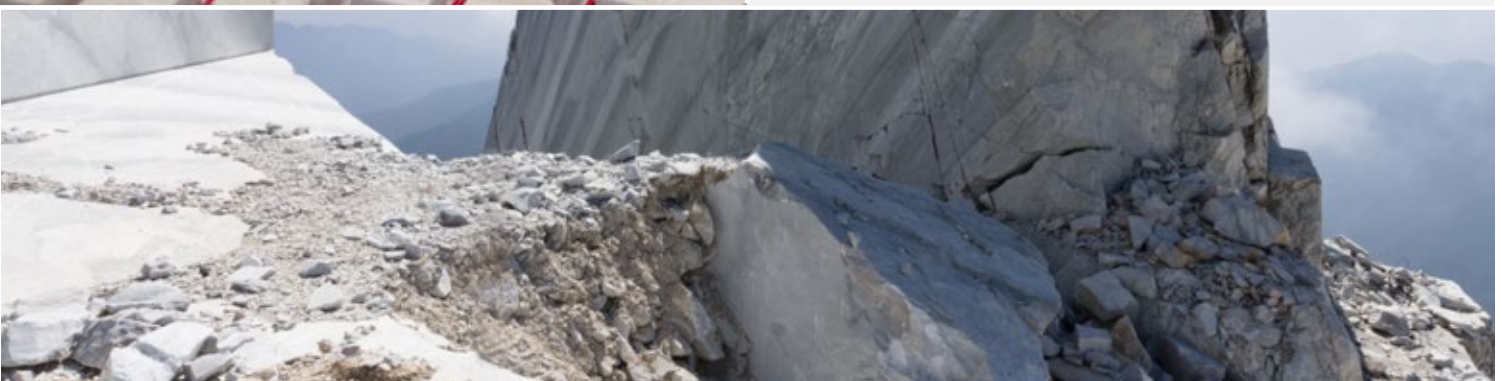
◀ Our **TECHNOTHERM** natural stone heaters are made of **natural stone blocks from different countries**. The heavy blocks are cut into a handy size at so-called "gaunt saws".



◀ The high-temperature resistant heating conductors are laid in the grooves milled on the backside and glued with a special temperature-resistant shamotting mortar. This results in durability and has nearly 100% heat transfer.

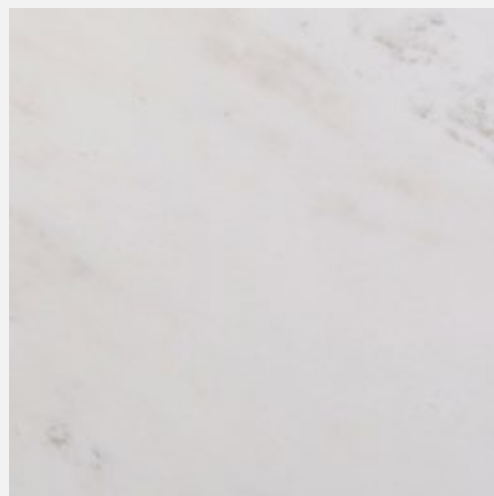
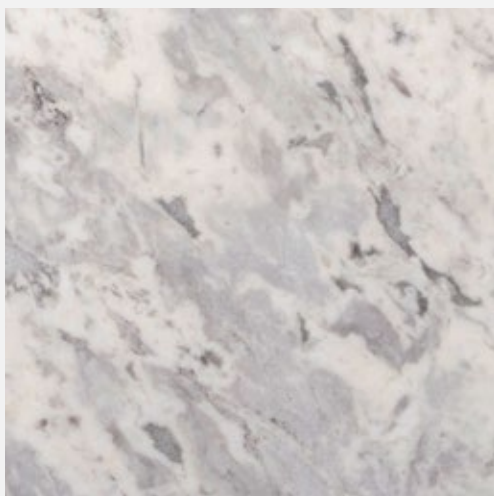
**The precious raw material of our natural stone heating systems comes from:**

- Germany (Jura)
- Greece
- India
- Iran
- Italy



# Natural-stone heater

Series **TTM-S** Varios and Galaxis



## Natural-stone heater Varios / Galaxis

**Premium class natural stone, invisible wall mounting (horizontal or vertical),** heating element invisible embedded in the stone back face, protection class I, mild radiation warmth through the crystalline structure of the natural stone.

**IP 66**

Use only with TRF-N (see page 125) external control and our Eco interface (see page 121).



| Model Varios | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350    | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 508  | 682,00          |
| TTM-S 650    | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 608  | 821,00          |
| TTM-S 850    | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 708  | 889,00          |
| TTM-S 1150   | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 808  | 958,00          |
| TTM-S 1450   | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 908  | 1.071,00        |
| TTM-S 1650   | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 108  | 1.156,00        |

Discount group TT\_300

| Model Galaxis | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350     | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 501  | 682,00          |
| TTM-S 650     | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 601  | 821,00          |
| TTM-S 850     | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 701  | 889,00          |
| TTM-S 1150    | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 801  | 958,00          |
| TTM-S 1450    | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 901  | 1.071,00        |
| TTM-S 1650    | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 111  | 1.156,00        |

Discount group TT\_300

# Natural-stone heater

Series **TTM-S** Padua Antik and Jura



## Natural-stone heater Padua Antik / Jura

**Premium class natural stone, invisible wall mounting (horizontal or vertical),** heating element invisible embedded in the stone back face, protection class I, mild radiation warmth through the crystalline structure of the natural stone.

IP 66

Use only with TRF-N (see page 125) external control and our Eco interface (see page 121).



| Model Padua Antik | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350         | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 519  | 682,00          |
| TTM-S 650         | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 619  | 821,00          |
| TTM-S 850         | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 719  | 889,00          |
| TTM-S 1150        | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 819  | 958,00          |
| TTM-S 1450        | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 919  | 1.071,00        |
| TTM-S 1650        | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 119  | 1.156,00        |

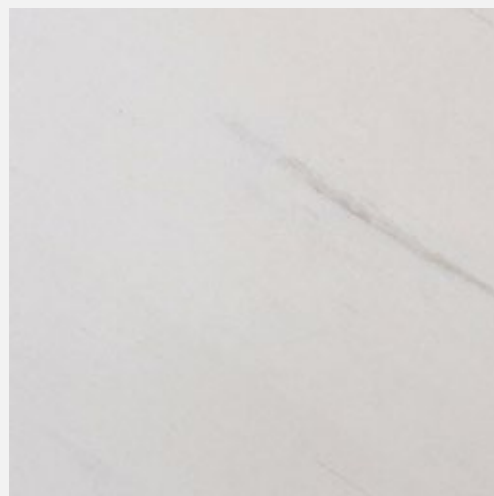
Discount group TT\_300

| Model Jura | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350  | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 503  | 682,00          |
| TTM-S 650  | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 603  | 821,00          |
| TTM-S 850  | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 703  | 889,00          |
| TTM-S 1150 | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 803  | 958,00          |
| TTM-S 1450 | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 903  | 1.071,00        |
| TTM-S 1650 | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 113  | 1.156,00        |

Discount group TT\_300

# Natural-stone heater

Series **TTM-S** Sahara and Prinos



## Natural-stone heater Sahara / Prinos

**Premium class natural stone, invisible wall mounting (horizontal or vertical),** heating element invisible embedded in the stone back face, protection class I, mild radiation warmth through the crystalline structure of the natural stone.

**IP 66**

Use only with TRF-N (see page 125) external control and our Eco interface (see page 121).



| Model Sahara | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350    | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 502  | 682,00          |
| TTM-S 650    | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 602  | 821,00          |
| TTM-S 850    | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 702  | 889,00          |
| TTM-S 1150   | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 802  | 958,00          |
| TTM-S 1450   | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 902  | 1.071,00        |
| TTM-S 1650   | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 122  | 1.156,00        |

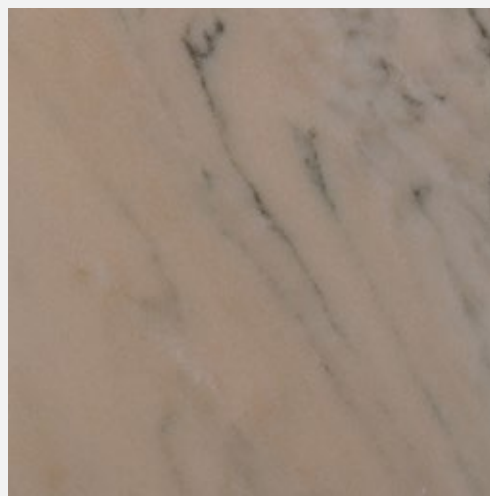
Discount group TT\_300

| Model Prinos | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350    | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 506  | 694,00          |
| TTM-S 650    | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 606  | 836,00          |
| TTM-S 850    | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 706  | 907,00          |
| TTM-S 1150   | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 806  | 975,00          |
| TTM-S 1450   | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 906  | 1.088,00        |
| TTM-S 1650   | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 106  | 1.169,00        |

Discount group TT\_300

# Natural-stone heater

Series **TTM-S** Sylvia Antik and Ruschitalachs



## Natural-stone heater Sylvia Antik / Ruschitalachs

**Premium class natural stone, invisible wall mounting (horizontal or vertical),** heating element invisible embedded in the stone back face, protection class I, mild radiation warmth through the crystalline structure of the natural stone.

IP 66

Use only with TRF-N (see page 125) external control and our Eco interface (see page 121).



| Model Sylvia Antik | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350          | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 507  | 694,00          |
| TTM-S 650          | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 607  | 836,00          |
| TTM-S 850          | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 707  | 907,00          |
| TTM-S 1150         | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 807  | 975,00          |
| TTM-S 1450         | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 907  | 1.088,00        |
| TTM-S 1650         | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 107  | 1.169,00        |

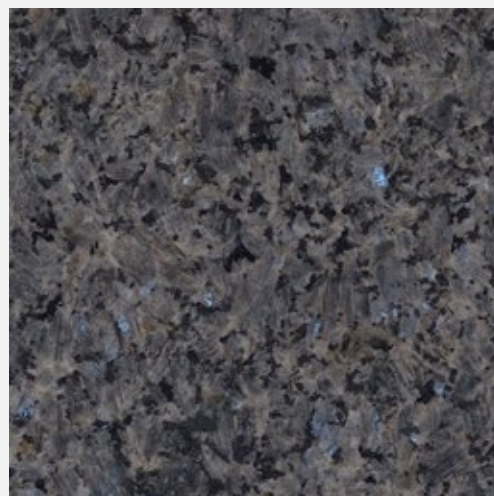
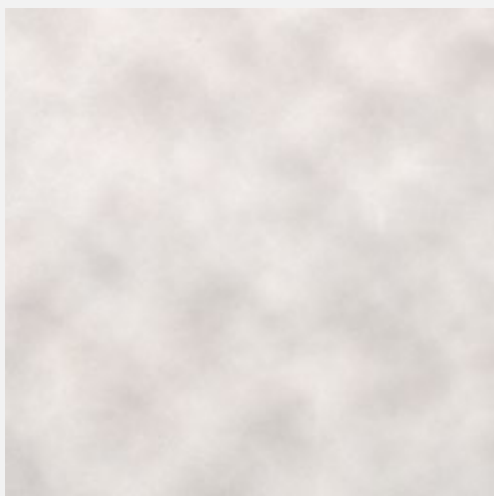
Discount group TT\_300

| Model Ruschitalachs | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350           | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 505  | 694,00          |
| TTM-S 650           | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 605  | 836,00          |
| TTM-S 850           | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 705  | 907,00          |
| TTM-S 1150          | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 805  | 975,00          |
| TTM-S 1450          | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 905  | 1.088,00        |

Discount group TT\_300

# Natural-stone heater

Series **TTM-S** Thassos and Labrador



## Natural-stone heater Thassos / Labrador

**Premium class natural stone, invisible wall mounting (horizontal or vertical),** heating element invisible embedded in the stone back face, protection class I, mild radiation warmth through the crystalline structure of the natural stone.

**IP 66**

Use only with TRF-N (see page 125) external control and our Eco interface (see page 121).



| Model Thassos | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350     | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 514  | 824,00          |
| TTM-S 650     | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 614  | 941,00          |
| TTM-S 850     | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 714  | 1.039,00        |
| TTM-S 1150    | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 814  | 1.132,00        |
| TTM-S 1450    | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 914  | 1.358,00        |
| TTM-S 1650    | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 114  | 1.613,00        |

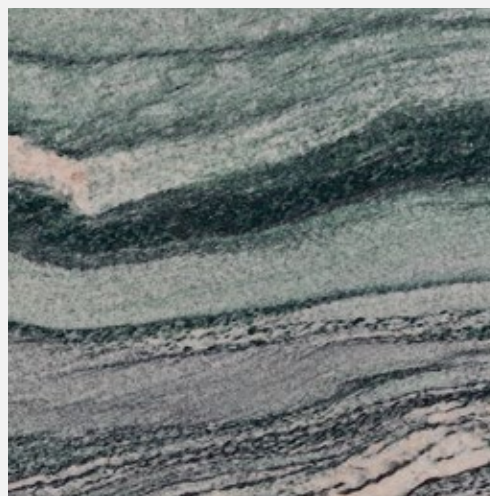
Discount group TT\_300

| Model Labrador | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350      | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 517  | 824,00          |
| TTM-S 650      | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 617  | 941,00          |
| TTM-S 850      | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 717  | 1.039,00        |
| TTM-S 1150     | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 817  | 1.132,00        |
| TTM-S 1450     | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 917  | 1.358,00        |
| TTM-S 1650     | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 117  | 1.613,00        |

Discount group TT\_300

# Natural-stone heater

Series **TTM-S** Matrix and Atlantis



## Natural-stone heater Matrix / Atlantis

**Premium class natural stone, invisible wall mounting (horizontal or vertical),** heating element invisible embedded in the stone back face, protection class I, mild radiation warmth through the crystalline structure of the natural stone.

IP 66

Use only with TRF-N (see page 125) external control and our Eco interface (see page 121).



| Model Matrix | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350    | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 518  | 935,00          |
| TTM-S 650    | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 618  | 1.063,00        |
| TTM-S 850    | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 718  | 1.143,00        |
| TTM-S 1150   | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 818  | 1.248,00        |
| TTM-S 1450   | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 918  | 1.455,00        |
| TTM-S 1650   | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 118  | 1.727,00        |

Discount group TT\_300

| Model Atlantis | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| TTM-S 350      | 0,35       | 600 x 400 x 30               | 21,00                  | 870 000 513  | 935,00          |
| TTM-S 650      | 0,65       | 1000 x 400 x 30              | 35,00                  | 870 000 613  | 1.063,00        |
| TTM-S 850      | 0,85       | 1000 x 500 x 30              | 44,00                  | 870 000 713  | 1.143,00        |
| TTM-S 1150     | 1,15       | 1000 x 600 x 30              | 52,00                  | 870 000 813  | 1.248,00        |
| TTM-S 1450     | 1,45       | 1250 x 600 x 30              | 62,00                  | 870 000 913  | 1.455,00        |
| TTM-S 1650     | 1,65       | 1350 x 600 x 30              | 69,00                  | 870 000 413  | 1.727,00        |

Discount group TT\_300

# ELECTRICAL DYNAMIC STORAGE HEATER

WARMTH TO FEEL  
GOOD EVERYWHERE!

This is modern heating technology for each home: efficient electrical heating devices from TECHNOTHERM supply comfort and warmth extremely economically for your home. Moreover -with low-tariff energy at a favourable price offered by many energy suppliers at night and even all the day on weekends. Our electrical thermal storage heaters are distinguished by:

- **Timelessly modern design**
- **Efficiency**
- **Optimal dimensions and power, perfect for each room size**
- **Option of control via Internet (with ECO control)**
- **Option of using self-generated energy (with Energy Manager)**
- **As slim as 13 cm, depending on the model**

The heating control with a number of high-efficiency thermostats and temperature controllers is easily adapted to your demands. Its programmed control ensures a homely and cosy ambience. The thermal-storage heaters from TECHNOTHERM unite cost-efficiency and modern heating comfort in your own home.





# ELECTRICAL DYNAMIC STORAGE HEATERS

## Individual and versatile combinations

The “dynamical series” design is timeless and adaptable at the same time. Fronts without joints are easy to clean. Chamfered corners and edges add more safety at home. A trendy colour (RAL 9002) ensures that the TECHNOTHERM electrical thermal storage heaters fit smoothly with each interior style.

Due to the extensive range and slim-line depth (from 13 cm), it is possible to choose a model for each area of the home. All electrical thermal storage heaters are equipped with innovative accessories and can be mounted on walls. To allow free combinations of different types of devices, all devices in all product ranges have the same design.

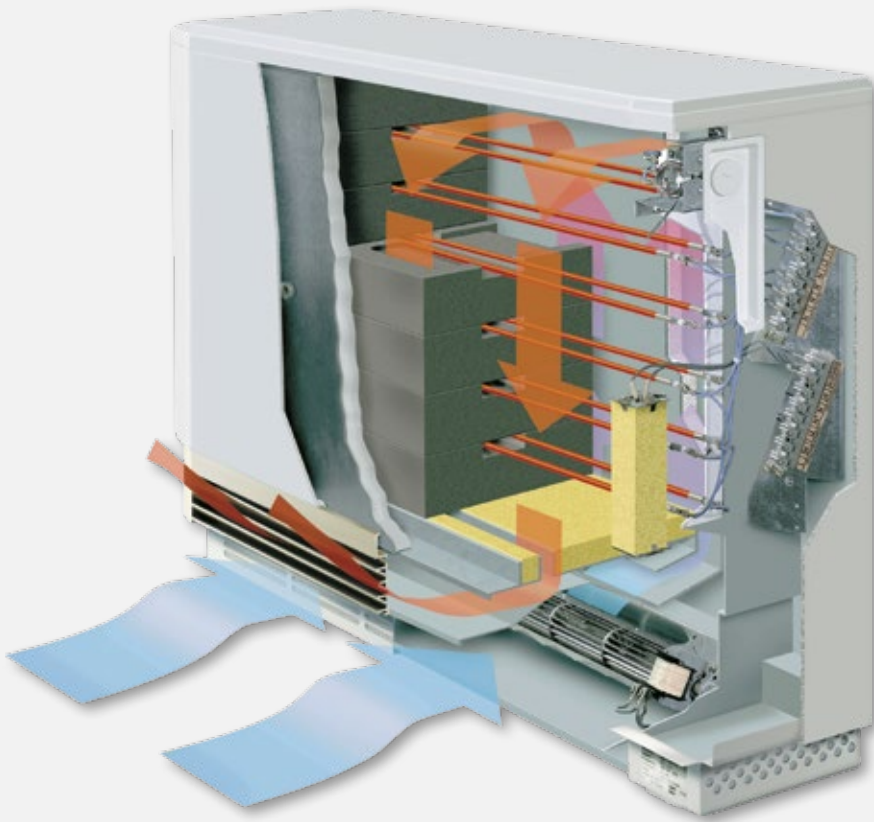
## What are the components of a heat storage system?

A modern and efficient heat storage system consists of:

- Heat storage
- High heat storage retention
- Central control unit with weather sensor

*The required accessories can be found on pages 116-117*





◀ Modern electrical thermal storage heaters are "slim" and compact. Their function and performance fit with any kind of room. Especially from this point of view, series TTS-F and TTW invigorate innovations in heating systems.

Our electrical thermal storage heating systems run at low fan speeds. Thus we achieve a uniform distribution of heat in the room at the lowest noise emission. Air suction from the front via the integrated dust filter significantly improves the room air quality and thus contributes to your comfort and good feeling.



# Electrical thermal storage heater

Series TTS



## Series TTS with electronic charging regulator

Sheet steel housing, colour RAL 9002, to be mounted on floors or on walls, power reduction is possible by changing connections, only 24.5 cm depth, with an electronic charging (AC/DC) 230 V, 0-80% ED DC 0,91-1,43 V. **Only use with external control e.g. TPF-Eco (see page 121) and the central control unit RS200 (see page 126).**

IP 21

## Series TTS with electronic charging regulator and ECO-receiver

**Can be regulated via Internet!** Similar to type TTS, however, with additionally built-in components: TRF (radio receiver) and IRT (thermal regulator). A radio transmitter TPF-Eco (not included) is additionally required (AC/DC) 230 V, 0-80% ED DC 0,91-1,43 V. **Only use with external control e.g. TPF-Eco (see page 121) and the central control unit RS200 (see page 126).**

IP 21



| Model   | Power [kW]          | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------|---------------------|------------------------------|------------------------|--------------|-----------------|
| TTS 200 | 2,00/1,68/1,34/1,00 | 580 x 660 x 245              | 128                    | 852 020 005  | 1.167,00        |
| TTS 300 | 3,00/2,76/2,52/2,25 | 760 x 660 x 245              | 183                    | 852 030 005  | 1.399,00        |
| TTS 400 | 4,00/3,68/3,36/3,00 | 940 x 660 x 245              | 238                    | 852 040 005  | 1.534,00        |
| TTS 510 | 5,00/4,60/4,20/3,75 | 940 x 660 x 245              | 238                    | 852 053 005  | 1.733,00        |
| TTS 610 | 6,00/5,52/5,04/4,50 | 1120 x 660 x 245             | 292                    | 852 061 005  | 1.905,00        |
| TTS 710 | 7,00/6,44/5,88/5,25 | 1300 x 660 x 245             | 347                    | 852 071 005  | 2.214,00        |

Discount group TT\_100

| Model       | Power [kW]          | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-------------|---------------------|------------------------------|------------------------|--------------|-----------------|
| TTS 200 Eco | 2,00/1,68/1,34/1,00 | 580 x 660 x 245              | 128                    | 855 020 005  | 1.266,00        |
| TTS 300 Eco | 3,00/2,76/2,52/2,25 | 760 x 660 x 245              | 183                    | 855 030 005  | 1.498,00        |
| TTS 400 Eco | 4,00/3,68/3,36/3,00 | 940 x 660 x 245              | 238                    | 855 040 005  | 1.632,00        |
| TTS 510 Eco | 5,00/4,60/4,20/3,75 | 940 x 660 x 245              | 238                    | 855 053 005  | 1.831,00        |
| TTS 610 Eco | 6,00/5,52/5,04/4,50 | 1120 x 660 x 245             | 292                    | 855 061 005  | 2.004,00        |
| TTS 710 Eco | 7,00/6,44/5,88/5,25 | 1300 x 660 x 245             | 347                    | 855 071 005  | 2.312,00        |

Discount group TT\_100

\*Eco devices are not VDE and EMV tested.

# Electrical thermal storage heater

Series TTS-F



## Series TTS-F with electronic charging regulator

Sheet steel housing, colour RAL 9002, to be mounted on floors or on walls, power reduction is possible by changing connections, only 18,5 cm depth, with an electronic charging. (AC/DC) 230 V, 0-80% ED, DC 0,91-1,43 V. **Only use with external control e.g. TPF-Eco (see page 111) and the central control unit RS200 (see page 116).**

IP 21

## Series TTS-F with electronic charging regulator and ECO-receiver

**Can be regulated via Internet!** Similar to type TTS-F, however, with additionally built-in components: TRF (radio receiver) and IRT (thermal regulator). (AC/DC) 230 V, 0-80% ED DC 0.91-1.43 V. **Only use with external control e.g. TPF-Eco (see page 121) and the central control unit RS200 (see page 126).**

IP 21



| Model     | Power [kW]          | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------|---------------------|------------------------------|------------------------|--------------|-----------------|
| TTS 170 F | 1,70/1,14           | 580 x 660 x 185              | 100                    | 852 317 005  | 1.146,00        |
| TTS 260 F | 2,55/1,71           | 760 x 660 x 185              | 141                    | 852 326 005  | 1.392,00        |
| TTS 340 F | 3,40/3,13/2,86/2,55 | 940 x 660 x 185              | 184                    | 852 334 005  | 1.704,00        |

Discount group TT\_100

| Model         | Power [kW]          | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------|---------------------|------------------------------|------------------------|--------------|-----------------|
| TTS 170 F Eco | 1,70/1,14           | 580 x 660 x 185              | 100                    | 855 317 005  | 1.243,00        |
| TTS 260 F Eco | 2,55/1,71           | 760 x 660 x 185              | 141                    | 855 326 005  | 1.490,00        |
| TTS 340 F Eco | 3,40/3,13/2,86/2,55 | 940 x 660 x 185              | 184                    | 855 334 005  | 1.802,00        |

Discount group TT\_100

\*Eco devices are not VDE and EMV tested.

# Electrical thermal storage heater

Series TTW



## Series TTN-F with electronic charging regulator

Sheet steel housing, colour RAL 9002, to be mounted on floors or on walls, power reduction is possible by changing connections, only 18.5 cm depth. With an electronic charging (AC/DC) 230 V, 0-80% ED, DC 0,91-1,43 V.

IP 21

## Series TTN-F with electronic charging regulator and ECO-receiver

**Can be regulated via Internet!** Similar to type TTN-F, however, with additionally built-in components: TRF (radio receiver) and IRT (thermal regulator). A radio transmitter TPF-Eco (not included) is additionally required (AC/DC) 230 V, 0-80% ED DC 0.91-1.43 V. Radio transmitter TPF-Eco (not included) is additionally required (see page. 121).

IP 21



| Model     | Power [kW]               | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------|--------------------------|------------------------------|------------------------|--------------|-----------------|
| TTN 200 F | 2,00/1,76/1,50/1,26/1,00 | 760 x 536 x 185              | 109                    | 852 121 005  | 1.329,00        |
| TTN 270 F | 2,70/2,38/2,03/1,70/1,35 | 940 x 536 x 185              | 141                    | 852 127 005  | 1.509,00        |

Discount group TT\_100

| Model         | Power [kW]               | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------|--------------------------|------------------------------|------------------------|--------------|-----------------|
| TTN 200 F Eco | 2,00/1,76/1,50/1,26/1,00 | 760 x 536 x 185              | 109                    | 855 121 005  | 1.427,00        |
| TTN 270 F Eco | 2,70/2,38/2,03/1,70/1,35 | 940 x 536 x 185              | 141                    | 855 127 005  | 1.607,00        |

Discount group TT\_100

\*Eco devices are not VDE and EMV tested.

# Electrical thermal storage heater

Series TTN-F



**Series TTN with electronic charging regulator (TTN 400)**

Sheet steel housing, colour RAL 9002, to be mounted on floors or on walls, power reduction is possible by changing connections, only 24.5 cm depth. with an electronic charging (AC/DC) 230 V, 0-80% ED, DC 0,91-1,43 V.

**Only use with external control e.g. TPF-Eco (see page 121) and the central control unit RS200 (see page 126).**  
IP 21

**Series TTN with electronic charging regulator and ECO-reveiver (TTN 400 ECO)\***

**Can be regulated via Internet!** Similar to type TTN, however, with additionally built-in components: TRF (radio receiver) and IRT (thermal regulator). A radio transmitter TPF-Eco (not included) is additionally required (AC/DC) 230 V, 0-80% ED DC 0.91-1.43 V.

**Radio transmitter TPF-Eco (not included) is additionally required (see page 121).**  
IP 21



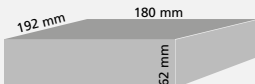
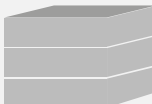
| Model       | Power [KW]               | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-------------|--------------------------|------------------------------|------------------------|--------------|-----------------|
| TTN 400     | 4,00/3,52/3,00/2,52/2,00 | 1120 x 536 x 245             | 215                    | 852 340 005  | 1.677,00        |
| TTN 400 Eco | 4,00/3,52/3,00/2,52/2,00 | 1120 x 536 x 245             | 215                    | 855 340 005  | 1.775,00        |

Discount group TT\_100

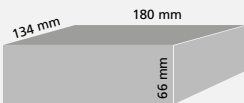
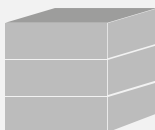
\*Eco devices are not VDE and EMV tested.

# Stone packages Electrical thermal storage heater

For all TT series - see tables

| Model                                                                             | TTS                                         | TTN                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | 7 stones per column<br>i.e. 2x 42 and 1x 43 | 5 stones per column<br>i.e. 1x 42 and 1x 43                                                                                                                                                                |
| Dimensions                                                                        |                                             | Content                                                                                                                                                                                                    |
|  |                                             | <div>Pack 42</div>  <div>Pack 43</div>  |

| Model                    | Power<br>[KW] | Order number<br>complete-unit | Order number<br>casing | Order number<br>stone-package | Amount<br>stone-package |
|--------------------------|---------------|-------------------------------|------------------------|-------------------------------|-------------------------|
| <b>Stone package TTS</b> |               |                               |                        |                               |                         |
| TTS 200                  | 2,00          | 852 020 005                   | 852 520 005            | 850 900 042<br>850 900 043    | 4<br>2                  |
| TTS 300                  | 3,00          | 852 030 005                   | 852 530 005            | 850 900 042<br>850 900 043    | 6<br>3                  |
| TTS 400                  | 4,00          | 852 040 005                   | 852 540 005            | 850 900 042<br>850 900 043    | 8<br>4                  |
| TTS 510                  | 5,00          | 852 053 005                   | 852 553 005            | 850 900 042<br>850 900 043    | 8<br>4                  |
| TTS 610                  | 6,00          | 852 061 005                   | 852 561 005            | 850 900 042<br>850 900 043    | 10<br>5                 |
| TTS 710                  | 7,00          | 852 071 005                   | 852 571 005            | 850 900 042<br>850 900 043    | 12<br>6                 |
| <b>Stone package TTN</b> |               |                               |                        |                               |                         |
| TTN 400                  | 4,00          | 852 340 005                   | 852 541 005            | 850 900 042<br>850 900 043    | 5<br>5                  |

| Model                                                                             | TTS-F                                       | TTN-F                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | 7 stones per column<br>i.e. 2x 44 and 1x 45 | 5 stones per column<br>i.e. 2x 44 and 1x 45                                                                                                                                                                |
| Dimensions                                                                        |                                             | Content                                                                                                                                                                                                    |
|  |                                             | <div>Pack 44</div>  <div>Pack 45</div>  |

| Model                      | Power<br>[KW] | Order number<br>complete-unit | Order number<br>casing | Order number<br>stone-package | Amount<br>stone-package |
|----------------------------|---------------|-------------------------------|------------------------|-------------------------------|-------------------------|
| <b>Stone package TTS-F</b> |               |                               |                        |                               |                         |
| TTS 170 F                  | 1,70          | 856 317 005                   | 856 517 005            | 850 900 044                   | 4                       |
|                            |               |                               |                        | 850 900 045                   | 2                       |
| TTS 260 F                  | 2,55          | 856 326 005                   | 856 526 005            | 850 900 044                   | 6                       |
|                            |               |                               |                        | 850 900 045                   | 3                       |
| TTS 340 F                  | 3,40          | 856 334 005                   | 856 534 005            | 850 900 044                   | 8                       |
|                            |               |                               |                        | 850 900 045                   | 4                       |
| <b>Stone package TTN-F</b> |               |                               |                        |                               |                         |
| TTN 200 F                  | 2,00          | 852 121 005                   | 852 521 005            | 850 900 044                   | 3                       |
|                            |               |                               |                        | 850 900 045                   | 3                       |
| TTN 270 F                  | 2,70          | 852 127 005                   | 852 527 005            | 850 900 044                   | 4                       |
|                            |               |                               |                        | 850 900 045                   | 4                       |

# HOT WATER HEATER

**ECONOMIC AND WITH  
COMPLETE COMFORT!**

Today cosy warm water is a matter of course in everyday life – also thanks to modern water heaters from TECHNOTHERM. Besides their incomparable comfort, these heaters also help to keep the costs of water heating as low as possible.

Our water heating devices feature the following clear advantages:

- **Decentralized energy supply, directly on the spot of consumption**
- **Cost-efficient operating**
- **Very easy to use**
- **Stylish designs**

They fit harmoniously into every ambience and adjust themselves in their performance perfectly to the respective requirements. Hot water equipment from TECHNOTHERM.





# HOT WATER HEATER

SMALL, COMPACT AND COST-EFFECTIVE



- ▲ Find the best compromise between energy-saving, low-calcification operation of the comfort water heater and the requirements for high water temperatures in the household.

**The energy-saving instantaneous water heaters from TECHNOTHERM offer an ideal and economical solution for bathrooms and kitchens. Small and compact, they fit under any sink or niche.**

- ◀ The fully electronic CDE-L 11-15 LCD Select or CDE-L 18-24 LCD Select allow water heating at one-degree accuracy and make showering a real pleasure. Setting the desired water temperature is childishly simple by "+" or "-" buttons and can be read on a large indicator screen. Thanks to smart controllability, you can save up to 30 percent operating costs compared to hydraulic flow-type heaters. A LCD display shows the current water temperature. In the diagnostic mode, you can read the current capacity, flow rate, output temperature and bubble detection whilst the device is running.



# Hot water heater

Comfort water heater



## Comfort water heater CDE

Heating coil system; Variable precise water temperature settings ranging from 30 °C to 60 °C; Can be used in combination with solar panels; LCD - display, with diagnostic mode Temperature + / -1 °C; air bubble detection, Easy installation; Three buttons for quick temperature selection; Key lock possible; Slimline housing case; Flexible connections, energy class A<sup>1</sup>.

IP 24

Energy class

A

B

A<sup>1</sup>



| Model                                | Power [kW]        | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------------------------------|-------------------|------------------------------|------------------------|--------------|-----------------|
| CDE-L11-15 <sup>1</sup><br>LCDSelect | 11,00/13,50/15,00 | 447 x 235 x 109              | 3,80                   | 201 800 099  | 481,00          |
| CDE-L18-24 <sup>1</sup><br>LCDSelect | 18,00/21,00/24,00 | 447 x 235 x 109              | 3,80                   | 201 800 199  | 534,00          |

Discount group TT\_500



# Accessories

## Thermostates



1



2



3

### Thermostat DSM <sup>1</sup>

The DSM thermostat can be controlled with the DSM interface (to be ordered separately, see page 121) via the Internet using the free Technotherm APP.

Separate temperatures and various time programs can be set for each room (see page 6-7). Current consumption and a "history" are easy to read. The thermostat detects an open window and reacts accordingly ("Open Window" function). By the "outside-house" function all programmed devices are down-regulated by a certain temperature. Automatic function - detects presence and absence and adapts to your heat demand. The DSM thermostat makes your heater ErP-ready.



### Thermostat Plus <sup>2</sup>

Thermostat with day and week programs. In addition to the adaptive start function, the thermostat detects open windows. Practical push buttons for easy operation round off the special thermostat. IP 24

### Radio receiver RF <sup>3</sup>

**Built-in radio receiver for control with an external thermostat** e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 12-13). **The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 121).**



| Model                  | Thermostat ICT | Thermostat DSM | Receiver RF | TPF-ECO | Plus |
|------------------------|----------------|----------------|-------------|---------|------|
| TT-KS Products         |                | x              | x           | x       | x    |
| Convecto-Rad CHM       |                | x              | x           | x       | x    |
| VPS Design             |                |                | x           | x       |      |
| VPS                    |                | x              | x           | x       | x    |
| CPH                    |                |                |             |         |      |
| CVS                    |                |                |             |         |      |
| Bathroom heater HR KSB |                | x              | x           | x       |      |
| ISP                    |                |                | x           | x       |      |
| Natural stone heater   |                |                | x           | x       |      |
| VPN                    | x              |                |             |         |      |
| SPH                    |                | x              | x           | x       | x    |

# Accessories

Direct heater



## TPF-ECO radio thermostat <sup>1</sup>

New controls, electronic Rotary switch, backlight: 3 colours, depending on setpoint Indicator of consumption, automatic Conversion summer/winter time, Keylock, radio protocol: bi-directional on the Eco-receiver tuned, compatible with the App Control, battery life: 5 to 10 years, **IP 30**

## DSM Interface <sup>3</sup>

The DSM interface is required for the Internet control of all radiators with the DSM thermostat. The "plug & play" mode helps you install the heaters and the interface easily.

## ECO-Interface 1.0 + 2.0 <sup>2</sup>

You need this ECO interface to be able to access your heating devices from your end devices - smartphone or tablet - via the Internet. The installation is automated and possible without any previous knowledge. An installation wizard guides you through the menus.

1 set consists of:

- 1 radio interface X3D + 1 cable RJ45 to connect to the ADSL router
- Radio frequency: 868 MHz
- Radio range: up to 300 m in a free field
- 14 languages integrated
- Compatible with operating systems Android from 2.3.3 and iOS5
- Voltage supply 230 V~

For a detailed description, see page12-13

| Model                    | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|--------------------------|------------|------------------------------|------------------------|--------------|-----------------|
| ① TPF-ECO Radio receiver |            | 135 x 80 x 30                | 0,25                   | 750 000 641  | 152,00          |
| ② ECO-Schnittstelle 1.0  |            | 100 x 205 x 30               | 0,40                   | 750 000 640  | 213,00          |
| ② ECO-Schnittstelle 2.0  |            | 165 x 205 x 45               | 0,30                   | 750 000 650  | 723,00          |
| ③ DSM Interface          |            | 100 x 70 x 30                | 0,20                   | 911 950 100  | 185,00          |

Discount group TT\_150

# Accessories

Direct heater



## Digital radio transmitter TBF-ECO <sup>1</sup>

Digital display. 4 operating modes (comfort, lowering, frost protection, AUTO), key lock, battery status indicator, battery change at the front, radio version: combination with central control possible. Power supply: 2 batteries LR03, control type: PI control, protection class II, radio version, installation: surface-mounted or in flush-mounted box.

## Outlet receiver TSF <sup>2</sup>

Radio range of 100 - 300 m in unobstructed environment. Operating temperature: 0 °C to 40 °C, IK 04 Protection class II.  
**IP 20**

## Radio receiver TRF <sup>3</sup>

Permanent connection, PI-action control, surface mounting on a holder or on a flush socket, protection class II, 16 A.  
**IP 44**

## Flush regulator UPR <sup>4</sup>

Radio receiver for heating regulation, flush version, PI-action control, 230 V~, 10A

## Flush sensor UPF <sup>5</sup>

Floor sensor for radio receiver UPR, Cable length 3m.

| Model     | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------|------------|------------------------------|------------------------|--------------|-----------------|
| 1 TBF-ECO |            | 80 x 80 x 23                 | 0,25                   | 750 000 656  | 124,00          |
| 2 TSF     |            | 140 x 70 x 50                | 0,25                   | 750 000 633  | 112,00          |
| 3 TRF     |            | 120 x 54 x 25                | 0,25                   | 750 000 634  | 97,00           |
| 4 UPR     |            |                              |                        | 750 000 647  | 125,00          |
| 5 UPF     |            |                              |                        | 750 000 648  | 40,00           |

Discount group TT\_150

# Accessories

Safety engineering, direct heating, partial storage heating



## Pack TYDOM Video <sup>1</sup>

Video analysis, the triggering points for burglaries, both day and night. Receive messages even in the event of a power failure or interruption to the Internet. The whole house can be remote controlled via the ECO-Interface.

## Pack wireless alarm center <sup>2</sup>

Protection of the entire living area or individual zones, up to 8 zones. Up to 10 years lifetime for easy maintenance. Intuitive navigation with touch control unit. Discouraging effect due to the powerful siren.

## Wireless Micro-opening detector <sup>3</sup>

Ideal for monitoring doors. The small size allows a discreet installation to better adapt to interior decoration. Available in 3 colours (white, brown or gray).

## Castors Partial storage heater KS <sup>4</sup>

Set pair

## Feet stands Partial storage heater KS <sup>5</sup>

Set pair

## Feet stands for direct heater VPS <sup>6</sup>

Set pair

## Feet stands for direct heater CPH und CVS <sup>7</sup>

Set pair

| Model                                       | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|---------------------------------------------|------------------------|--------------|-----------------|
| ① PACK TYDOM Video                          |                        | 750 000 661  | 924,00          |
| ② PACK WIRELESS PREPROGRAMMED ALARM CENTRAL |                        | 750 000 660  | 1.225,00        |
| ③ FUNK-MICRO-OPENING DETECTOR white         |                        | 750 000 662  | 64,00           |
| FUNK-MICRO-OPENING DETECTOR grey            |                        | 750 000 663  | 64,00           |
| FUNK-MICRO-OPENING DETECTOR brown           |                        | 750 000 664  | 64,00           |

Discount group TT\_900

| Model            | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|------------------|------------|------------------------------|------------------------|--------------|-----------------|
| ④ Castors KS     |            | ca. 60 mm high               |                        | 450 912 965  | 56,00           |
| ⑤ Feet stands KS |            | ca. 60 mm high               |                        | 450 910 965  | 56,00           |

Discount group TT\_200

| Model                   | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-------------------------|------------|------------------------------|------------------------|--------------|-----------------|
| ⑥ Feet stands VP / VPS  |            | ca. 60 mm high               |                        | 429 900 200  | 24,00           |
| ⑦ Feet stands CPH / CVS |            | ca. 60 mm high               |                        | 429 900 100  | 23,00           |

Discount group TT\_200

# Accessories

Infrared heater ISP



1



2



## ISP ceiling mount <sup>1</sup>

This additional ceiling mount facilitates assembly. It increases the security of your infrared heater on the ceiling.

## ISP towel rail <sup>2</sup>

This towel holder made of elaborately stainless steel, can be easily attached to your infrared heating system. This will turn your heater into a high-quality towel dryer and your towels will be warm.

| Model     | for model   | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------|-------------|------------------------------|------------------------|--------------|-----------------|
| 1 IH-TT 1 | ISP-350     | 364 x 510 x 29               |                        | 880 100 010  | 51,00           |
| IH-TT 2   | ISP-450     | 664 x 510 x 29               |                        | 880 100 020  | 51,00           |
| IH-TT 3   | ISP-600/750 | 964 x 510 x 29               |                        | 880 100 030  | 51,00           |
| IH-TT 4   | ISP-950     | 1.264 x 510 x 29             |                        | 880 100 040  | 51,00           |
| IH-TT 5   | ISP-1.200   | 1.564 x 510 x 29             |                        | 880 100 050  | 51,00           |
| IH-TT 6   | ISP-351     | 664 x 350 x 29               |                        | 880 110 010  | 51,00           |
| IH-TT 7   | ISP-501     | 964 x 350 x 29               |                        | 880 110 020  | 51,00           |
| IH-TT 8   | ISP-651     | 1.264 x 350 x 29             |                        | 880 110 030  | 51,00           |
| IH-TT 9   | ISP-851     | 1.564 x 350 x 29             |                        | 880 110 040  | 51,00           |

Discount group TT\_900

| Model     | for model         | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-----------|-------------------|------------------------------|------------------------|--------------|-----------------|
| 2 IB-TT 3 | ISP 300 mm lenght | 300 x 40                     |                        | 880 110 000  | 117,00          |
| IB-TT 5   | ISP 500 mm lenght | 500 x 40                     |                        | 880 100 000  | 132,00          |

Discount group TT\_900

# Accessories

Natural stone heater



## Supplementary kit TRF-N

**Can be used with the Eco-control.** This receiver to control the temperature of your natural stone heater is assembled and connected in a few steps, 16 A, protection class II, IP 44



| Model | Power [kW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-------|------------|------------------------------|------------------------|--------------|-----------------|
| TRF-N |            | 120 x 54 x 25                |                        | 75 0 000 635 | 117,00          |

Discount group TT\_150

# Accessories

## Thermal storage heaters



### Central control 557 / 983 <sup>1</sup> with integrated timer

Fully digitalized central control unit with integrated time unit and time- and outdoor temperature-dependent protective output. It is used to control electronic and thermo-mechanical charge controllers of storage heaters. The control signal is a clocked alternating voltage (AC) according to DIN 44 S 74.

Possible operating modes. Reverse, spread or forward control  
Setting range. 37 to 80% ED, max. control power 200 W Signal under pressure day (SUT),  
incl. weather sensor Load range 240 Q-100 k Ohm

### Group control 561.1 <sup>2</sup>

For signal amplifying and adaption to the individual heating needs. By means of the setting E5, the source signal of the group control device is influenced and leads to higher or lower charge degree at the connected storage heaters (group- or domicile wise) Setting range: -30 to +10 %

Max. control power: 200 W

Load range 240 Ohm-100 k Ohm

### Series TRT <sup>3+4</sup> electromechanical

Basic version pure white, ambient temperature regulator with thermal return, wall surface mounting or directly on embedded connection box, range narrowing (heating cost brake) in the adjusting button, 5 °C to 30 °C, 1 opener, 230 V~, temperature reduction via external control. **IP 30**

**TRT 2:** Switch „ON/OFF“, Control LED for heating element

**TRT 3:** Switch „ON/OFF“, Switch “Additional heating element”, Control LED for additional heating element

### Integrated ambient temperature regulator <sup>5</sup> electronic

For storage heater series:: TTS, TTN, TTS-F, TTN-F, TTH, TTW With built-in radio receiver RF ECO for control with an external thermostat (exclusive). Necessary to control via the Internet. Range in the building approx. 30 m (depending on construction). Radio frequency 868 MHz (standard EN 300 200)

| Model          | Power [KW] | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|----------------|------------|------------------------------|------------------------|--------------|-----------------|
| ① ZS 557 / 983 |            | 90 x 107 x 61                | 0,45                   | 716 010 157  | 491,00          |
| ② GS 561.1     |            | 90 x 53 x 61                 | 0,35                   | 716 010 161  | 231,00          |
| ③ TRT 2        |            | 75 x 75 x 26                 | 0,10                   | 750 000 602  | 48,00           |
| ④ TRT 3        |            | 75 x 75 x 26                 | 0,10                   | 750 000 603  | 53,00           |

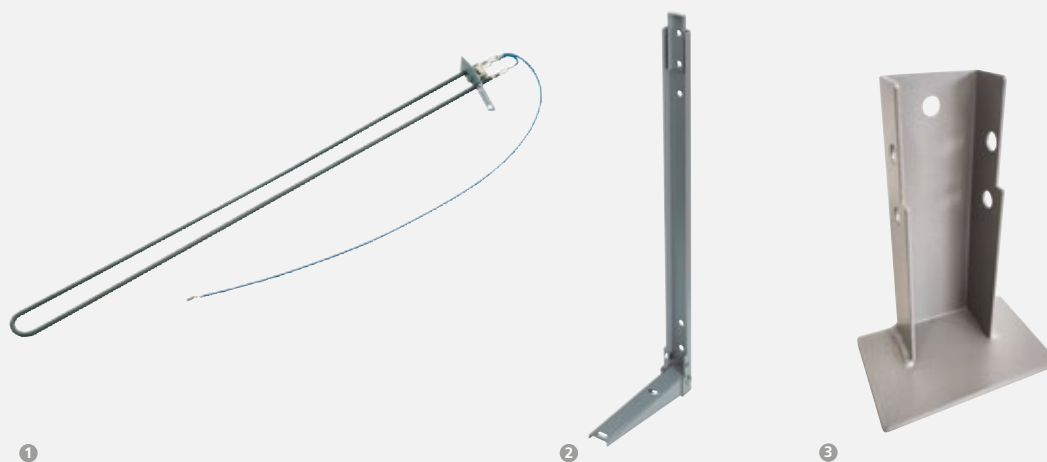
Discount group TT\_150

| Model       | Series     | Dimensions<br>W x H x D [mm] | Weight<br>[kg approx.] | Order number | Price<br>[Euro] |
|-------------|------------|------------------------------|------------------------|--------------|-----------------|
| ⑤ IRF 24 ZE | IRF 24 ZE  |                              | 0,10                   | 550 710 005  | 175,00          |
| IRF 18 FZE  | IRF 18 FZ  |                              | 0,10                   | 550 712 005  | 175,00          |
| IRF 24 HZE  | IRF 24 HZE |                              | 0,10                   | 550 713 005  | 175,00          |
| IRF 13 ZE   | IRF 13 ZE  |                              | 0,10                   | 550 714 005  | 175,00          |

Discount group TT\_150

# Accessories

## Thermal storage heaters



### Electric storage heating Accessories Additional heating element ZH <sup>1</sup>

Additional heating element with coupled thermostat as blockade for the storage core, overheating protection and connecting wires

### Fixing materials Wall brackets <sup>2</sup>

For wall mounting on load bearing wall

### Foot / complementary Wall brackets <sup>3</sup>

1 bracket / wall brackets, required for installation on drywalls

### Underlay plates UPS

For the protection of the floor, material asbestos-free, without illustration

| Model       | Series                                     | Power [kW] | Weight [kg approx.] | Order number | Price [Euro] |
|-------------|--------------------------------------------|------------|---------------------|--------------|--------------|
| ① ZH - TT 2 | TTS 20 / TTS 17 F / TTS 20 / TTS 30        | 0,75       |                     | 550 801 000  | 73,00        |
| ZH - TT 3   | TTS 30 / TTS 26 F / TTN 20 F / TTH 55      | 1,00       |                     | 550 802 000  | 77,00        |
| ZH - TT 4   | TTS 40 + 51 / TTS 34 F / TTN 30 / TTN 27 F | 1,00       |                     | 550 803 000  | 80,00        |
| ZH - TT 5   | TTS 61 / TTS 43 F / TTN 40 / TTN 33 F      | 1,50       |                     | 550 804 000  | 88,00        |
| ZH - TT 6   | TTS 71 / TTS 51 F / TTN 50 / TTN 40 F      | 1,50       |                     | 550 805 000  | 92,00        |

Discount group TT\_150

| Model                | Series          | Amount  | Weight [kg approx.] | Order number | Preis [Euro] |
|----------------------|-----------------|---------|---------------------|--------------|--------------|
| ② TTS-F              | TTS 17/26 F     | 2 piece |                     | 550 001 005  | each 55,00   |
|                      | TTS 34-51 F     | 3 piece |                     | 550 001 005  | each 55,00   |
| TTN-F                | TTN 20 F        | 2 piece |                     | 550 002 005  | each 55,00   |
|                      | TTN 27 F-40 F   | 3 piece |                     | 550 002 005  | each 55,00   |
| TTS                  | TTS 20/30/24/36 | 2 piece |                     | 550 000 005  | each 55,00   |
|                      | TTS 40-71       | 3 piece |                     | 550 000 005  | each 55,00   |
| TTN                  | TTN 30-50       | 3 piece |                     | 550 003 005  | each 55,00   |
| ③ Foot complementary |                 | 1 piece |                     | 550 004 005  | each 49,00   |

Discount group TT\_150

| Model  | Series           | Dimensions W x H x D [mm] | Weight [kg approx.] | Order number | Price [Euro] |
|--------|------------------|---------------------------|---------------------|--------------|--------------|
| UPS 20 | TTS 20/24        | 500 x 10 x 190            | 1,2                 | 550 101 000  | 40,00        |
| UPS 30 | TTS 30/36/TTH 55 | 680 x 10 x 190            | 1,6                 | 550 102 000  | 43,00        |
| UPS 40 | TTS 40/51/TTN 30 | 860 x 10 x 190            | 2,0                 | 550 103 000  | 54,00        |
| UPS 50 | TTS 61/TTN 40    | 1040 x 10 x 190           | 2,4                 | 550 104 000  | 57,00        |
| UPS 60 | TTS 71/TTN 50    | 1220 x 10 x 190           | 2,8                 | 550 105 000  | 62,00        |

Discount group TT\_150

## Discount group

TT 100 – Thermal storage heaters

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TT 120 – Static Storage Heater - Eco Design

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TT 150 – Controller, interface, receiver and control unit

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TT 200 – Partial storage heaters, direct heating Part I, infrared heaters

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TT 250 – Direct heating part II

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TT 300 – Bath heaters, natural stone heaters

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TT 400 – Under-floor heaters, pipe heaters

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TT 500 – Hot water heaters

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TT 800 – Direct heating part III

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TT 900 – Security technology, accessories

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TT 1000 – Spare parts

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# Taste patterns and usage patterns

## Usage patterns:

Our newly developed partial storage heater with a maximum surface temperature of 60 °C is unique in its kind. Our idea of this heating type, e.g. social facilities and kindergartens, we have been protected.

In our range of infrared heating systems, we have further usage patterns. The unique heat transfer from the heating conductor distinguishes these devices and stands for our high quality requirements.

Our used heat storage stones are high quality and exclusive. They store the heat extremely effectively. We have incorporated our entire know-how and patented our ideas.



## Design:

Our product series "Wall convector VPS" is not only beautiful, but also inexpensive in operation. A taste pattern was it worth!



# Declaration of conformity



With the CE marking, the manufacturer or EU authorized representative in accordance with EU regulation 765/2008, declares "that the product complies with the applicable requirements laid down in the harmonization provisions of the Community concerning its installation" is therefore not a quality seal, but an identification mark which is to be produced by the manufacturer in his own discretion and by means of which he expresses the fact that he is aware of the particular requirements of the product which he distributes and that this corresponds to this.



The VDE test mark stands for safety. The consumer can rely on this. After successful inspection of production sites, product inspections and regular production monitoring, the VDE Institute assigns various certification marks. It confirms compliance with the protection requirements of the applicable directives. The VDE symbol stands for the safety of the product with regard to electrical, mechanical, thermal, toxic, radiological and other hazards.



Each electrical or electronic device transmits and receives electromagnetic waves. These interference emissions can affect the devices on the other hand. The test certificate for electromagnetic compatibility (EMC) of products indicates that the requirements of the EU directive on electromagnetic compatibility are complied with.



The sealed safety seal (GS-Mark) certifies that a ready-to-use product meets the requirements of § 21 of the Product Safety Act (ProdSG). These requirements are defined in terms of "quantity and quantity", especially in DIN standards and European standards or other generally accepted rules of technology. The certification, introduced in 1977, is intended to protect the user and third parties from damage to life and limb in the intended and foreseeable use (in the non-harmonized area, ie without a European standard) and by observing the European guidelines (in the harmonized area) is still the only legally regulated test mark in Europe for product safety. The CE marking is required for certain products, but it is a declaration by the manufacturer or distributor that it complies with all European requirements (directives and / or regulations).



The Ecodesign Directive 2009/125 / EC establishes a framework for setting requirements for the environmentally design of energy-related products (ErP). The European ErP Directive 2009/125 / EC, also known as the Eco-Design Directive, defines minimum requirements for energy-related products. The aim of the ErP guideline is to reduce energy consumption and CO2 emissions as well as to increase the overall share of renewable energies. This Directive applies to all products placed on the market in the European Economic Area (EEA).



Many applications, electrical and electronic equipment must operate reliably for many years under difficult environmental conditions. In addition to the permissible temperature range, the corrosive load, which is understood to mean resistance to aggressive media such as moisture, water, vapors, acids, alkalis, oil or fuels, Technotherm takes care of your safety with the high, respected production standard.

# Verkaufs- und Lieferbedingungen LUCHT LHZ Elektroheizung GmbH & Co. KG

## Bei allen Geschäften mit Wiederverkäufern oder gewerblichen Abnehmern gelten ausschließlich diese Bedingungen

### I. Allgemeine Bestimmungen

- Für den Umfang der Lieferungen oder Leistungen (im Folgenden: Lieferungen) sind die beiderseitigen schriftlichen Erklärungen maßgebend. Allgemeine Geschäftsbedingungen des Bestellers gelten jedoch nur insoweit, als der Lieferer oder Leistende (im Folgenden: Lieferer) ihnen ausdrücklich schriftlich zugestimmt hat.
- An Kostenvorschlägen, Zeichnungen und anderen Unterlagen (im Folgenden: Unterlagen) behält sich der Lieferer seine eigentums- und urheberrechtlichen Verwertungsrechte uneingeschränkt vor. Die Unterlagen dürfen nur nach vorheriger Zustimmung des Lieferers Dritten zugänglich gemacht werden und sind, wenn der Auftrag dem Lieferer nicht erteilt wird, diesem auf Verlangen unverzüglich zurückzugeben. Die Sätze 1 und 2 gelten entsprechend für Unterlagen des Bestellers; diese dürfen jedoch solchen Dritten zugänglich gemacht werden, denen der Lieferer zulässigerweise Lieferungen übertragen hat.
- An Standardsoftware hat der Besteller das nicht ausschließliche Recht zur Nutzung mit den vereinbarten Leistungsmerkmalen in unveränderter Form auf den vereinbarten Geräten. Der Besteller darf ohne ausdrückliche Vereinbarung eine Sicherungskopie erstellen.
- Teillieferungen sind zulässig, soweit sie dem Besteller zumutbar sind.
- Der Lieferant ist berechtigt, seine Forderungen aus Lieferungen und Leistungen zu Finanzierungszwecken abzutreten.

### II. Preise und Zahlungsbedingungen

- Die Preise verstehen sich ab Werk ausschließlich Verpackung zuzüglich der jeweils geltenden gesetzlichen Umsatzsteuer.
- Hat der Lieferer die Aufstellung oder Montage übernommen und ist nicht etwas anderes vereinbart, so trägt der Besteller neben der vereinbarten Vergütung alle erforderlichen Nebenkosten wie Reisekosten, Kosten für den Transport des Handwerkszeugs und des persönlichen Gepäcks sowie Auslösungen.
- Zahlungen sind frei Zahlstelle des Lieferers zu leisten. Zahlungs- und Skontofristen laufen ab Rechnungsdatum. Für die Einhaltung der Frist ist der Tag des Zahlungseingangs maßgebend.
- Der Besteller kann nur mit solchen Forderungen aufrechnen, die unbestritten oder rechtskräftig festgestellt sind.
- Kommt der Besteller mit einer Zahlung in Verzug, so werden alle anderen Forderungen sofort zur Zahlung fällig, ohne dass es einer gesonderten Inverzugsetzung bedarf.
- Für Lieferungen und Leistungen an Besteller im Ausland gilt als ausdrücklich vereinbart, dass alle Kosten der Rechtsverfolgung durch den Lieferanten im Falle des Zahlungsverzuges des Bestellers, sowohl gerichtliche als auch außergerichtliche, zu Lasten des Bestellers gehen.
- Gerät der Besteller mit der Zahlung in Verzug sind wir für diesen Fall berechtigt, Verzugszinsen in Höhe von 5 % über dem jeweiligen Basiszinssatz der Europäischen Zentralbank (EZB) zu verlangen. Bei Kaufverträgen zwischen Unternehmen werden Verzugszinsen i.H.v. 8 % über dem jeweiligen Basiszinssatz der EZB fällig.

### III. Eigentumsvorbehalt

- Die Lieferungen bleiben das Eigentum des Lieferers bis zur Begleichung von sämtlichen Forderungen, die dem Lieferer gegen den Käufer zustehen, gleich aus welchem Rechtsgrund sie entstanden sind. Bei laufender Rechnung gilt das vorbehaltene Eigentum als Sicherung für die Saldoforderung des Lieferers.
- Der Käufer ist zum Gebrauch und zur Weiterveräußerung von Vorbehaltsware im ordnungsgemäßen Geschäftsgang befugt. Der Käufer tritt hiermit alle Ansprüche, die aus der Weiterveräußerung erwachsen sind, schon jetzt an den Lieferer ab. Die Abtretung nimmt der Lieferer hiermit an. Dies gilt auch für Waren, die verarbeitet oder verbunden wurden. Nimmt der Käufer die Forderung aus einer Weiterveräußerung eines Liefergegenstandes vom Lieferer in ein mit seinem Kunden bestehendes Konkurrentenverhältnis auf, so ist die Konkurrentenforderung des Käufers in voller Höhe abgetreten. Der Lieferer wird die Abtretung nicht offen legen, solange der Käufer seine Zahlungsverpflichtung erfüllt. Soweit der Lieferer dies im Einzelfall wünscht, hat der Käufer die Namen seiner Kunden zu offenbaren und diesen von der Abtretung Kenntnis zu geben. Der Käufer ist ermächtigt, die abgetretenen Forderungen aus der Weiterveräußerung selbst einzuziehen, wobei sich der Lieferer den Widerruf dieses Rechts jederzeit vorbehält.
- Die Vorbehaltsware darf nur mit vorherigen Zustimmung des Lieferers verpfändet oder als Sicherheit gegeben werden. Wird die vom Lieferer gelieferte Ware vom Käufer verarbeitet, wird die Verarbeitung für den Lieferer als Hersteller vorgenommen. Bei der Verarbeitung, Verbindung und Vermischung des gelieferten Gegenstandes mit anderen Gegenständen, die nicht im Eigentum des Lieferers stehen, erwirbt der Lieferer das Miteigentum an der neuen Sache im Verhältnis des Wertes der Kaufsache (Faktura-Endbetrag einschließlich Mehrwertsteuer) zu den anderen verarbeiteten/verbundenen/vermischten Gegenständen zur Zeit der Verarbeitung, Verbindung oder Vermischung. Der Käufer verwahrt das so entstandene Alleineigentum oder Miteigentum für den Lieferer. Erfolgt die Vermischung oder Verbindung in der Weise, dass die Sache des Käufers als Hauptsache anzusehen ist, so gilt als vereinbart, dass der Käufer das anteilige Miteigentum an den Lieferer überträgt und die Sache für diesen verwahrt.
- Der Lieferer verpflichtet sich, die dem Lieferer zustehenden Sicherheiten auf Verlangen des Käufers insoweit freizugeben, als der realisierbare Wert der Sicherheiten des Lieferers die zu sichernde Forderung um mehr als 20 % übersteigt; die Auswahl der freizugebenden Sicherheiten obliegt dem Lieferer.

### IV. Fristen für Lieferungen; Verzug

- Die Einhaltung von Fristen für Lieferungen setzt den rechtzeitigen Eingang sämtlicher vom Besteller zu liefernden Unterlagen, erforderlicher Genehmigungen und Freigaben, insbesondere von Plänen, sowie die Einhaltung der vereinbarten Zahlungsbedingungen und sonstigen Verpflichtungen durch den Besteller voraus. Werden diese Voraussetzungen nicht rechtzeitig erfüllt, so verlängern sich die Fristen angemessen; dies gilt nicht, wenn der Lieferer die Verzögerung zu vertreten hat.
- Ist die Nichteinhaltung der Fristen auf höhere Gewalt, z. B. Mobilmachung, Krieg, Aufruhr, oder auf ähnliche Ereignisse, z. B. Streik, Aussperrung, zurückzuführen, verlängern sich die Fristen angemessen.
- Kommt der Lieferer in Verzug, kann der Besteller – sofern er glaubhaft macht, dass ihm hieraus ein Schaden entstanden ist – eine Entschädigung für jede vollendete Woche des Verzuges von je 0,5 %, insgesamt jedoch höchstens 5 % des Preises für den Teil der Lieferungen verlangen, der wegen des Verzuges nicht in zweckdienlichen Betrieb genommen werden konnte.
- Sowohl Schadensersatzansprüche des Bestellers wegen Verzögerung der Lieferung als auch Schadensersatzansprüche statt der Leistung, die über die in Nr. 3 genannten Grenzen hinausgehen, sind in allen Fällen verzögerter Lieferung, auch nach Ablauf eine om Lieferer zu vertreten ist. Eine Änderung der Beweislast zum Nachteil des Bestellers ist mit den vorstehenden Regelungen nicht verbunden.
- Der Besteller ist verpflichtet, auf Verlangen des Lieferers innerhalb einer angemessenen Frist zu erklären, ob er wegen der Verzögerung der Lieferung vom Vertrag zurücktritt oder auf der Lieferung besteht.
- Werden Versand oder Zustellung auf Wunsch des Bestellers um mehr als einen Monat nach Anzeige der Versandbereitschaft verzögert, kann dem Besteller für jeden angefangenen Monat Lagergeld in Höhe von 0,5 % des Preises der Gegenstände der Lieferungen, höchstens jedoch insgesamt 5 %, berechnet werden. Der Nachweis höherer oder niedrigerer Lagerkosten bleibt den Vertragsparteien unbenommen.

### V. Gefahübergang

1. Die Gefahr geht auch bei frachtfreier Lieferung wie folgt auf den Besteller über:

- bei Lieferungen ohne Aufstellung oder Montage, wenn sie zum Versand gebracht oder abgeholt worden sind. Auf Wunsch und Kosten des Bestellers werden Lieferungen vom Lieferer gegen die üblichen Transportrisiken versichert;
  - bei Lieferungen mit Aufstellung oder Montage am Tage der Übernahme in eigenen Betrieb oder, soweit vereinbart, nach einwandfreiem Probetrieb.
2. Wenn der Versand, die Zustellung, der Beginn, die Durchführung der Aufstellung oder Montage, die Übernahme in eigenen Betrieb oder der Probetrieb aus vom Besteller zu vertretenden Gründen verzögert wird oder der Besteller aus sonstigen Gründen in Annahmeverzug kommt, so geht die Gefahr auf den Besteller über.

### VI. Aufstellung und Montage

Für die Aufstellung und Montage gelten, soweit nichts anderes schriftlich vereinbart ist, folgende Bestimmungen:

- Der Besteller hat auf seine Kosten zu übernehmen und rechtzeitig zu stellen:
  - alle Erd-, Bau- und sonstigen branchenfremden Nebenarbeiten einschließlich der dazu benötigten Fach- und Hilfskräfte, Baustoffe und Werkzeuge,
  - die zur Montage und Inbetriebsetzung erforderlichen Bedarfsgegenstände und -stoffe, wie Gerüste, Hebezeuge und andere Vorrichtungen, Brennstoffe und Schmiermittel,
  - Energie und Wasser an der Verwendungsstelle einschließlich der Anschlüsse, Heizung und Beleuchtung,
- bei der Montagestelle für die Aufbewahrung der Maschinenteile, Apparaturen, Materialien, Werkzeuge usw. genügend große, geeignete, trockene und verschließbare Räume und für das Montagepersonal angemessene Arbeits- und Aufenthaltsräume einschließlich den Umständen angemessener sanitärer Anlagen; im Übrigen hat der Besteller zum Schutz des Besitzes des Lieferers und des Montagepersonals auf der Baustelle die Maßnahmen zu treffen, die er zum Schutz des eigenen Besitzes ergreifen würde,
- Schutzkleidung und Schutzvorrichtungen, die infolge besonderer Umstände der Montagestelle erforderlich sind.
- Vor Beginn der Montagearbeiten hat der Besteller die nötigen Angaben über die Lage verdeckt geführter Strom-, Gas-, Wasserleitungen oder ähnlicher Anlagen sowie die erforderlichen statischen Angaben unaufgefordert zur Verfügung zu stellen.
- Vor Beginn der Aufstellung oder Montage müssen sich die für die Aufnahme der Arbeiten erforderlichen Beistellungen und Gegenstände an der Aufstellungs- oder Montagestelle befinden und alle Vorarbeiten vor Beginn des Aufbaues so weit fortgeschritten sein, dass die Aufstellung oder Montage vereinbarungsgemäß begonnen und ohne Unterbrechung durchgeführt werden kann. Anfuhrwege und der Aufstellungs- oder Montageplatz müssen geebnet und geräumt sein.

- Verzögern sich die Aufstellung, Montage oder Inbetriebnahme durch nicht vom Lieferer zu vertretende Umstände, so hat der Besteller in angemessenem Umfang die Kosten für Wartezeit und zusätzlich erforderliche Reisen des Lieferers oder des Montagepersonals zu tragen.
- Der Besteller hat dem Lieferer wöchentlich die Dauer der Arbeitszeit des Montagepersonals sowie die Beendigung der Aufstellung, Montage oder Inbetriebnahme unverzüglich zu bescheinigen.
- Verlangt der Lieferer nach Fertigstellung die Abnahme der Lieferung, so hat sie der Besteller innerhalb von zwei Wochen vorzunehmen. Geschieht dies nicht, so gilt die Abnahme als erfolgt. Die Abnahme gilt gleichfalls als erfolgt, wenn die Lieferung – gegebenenfalls nach Abschluss einer vereinbarten Testphase – in Gebrauch genommen worden ist.

### VII. Entgegennahme

Der Besteller darf die Entgegennahme von Lieferungen wegen unerheblicher Mängel nicht verweigern.

### VIII. Sachmängel

Für Sachmängel haftet der Lieferer wie folgt:

- Alle diejenigen Teile oder Leistungen sind nach Wahl des Lieferers unentgeltlich nachzubessern, neu zu liefern oder neu zu erbringen, die innerhalb der Verjährungsfrist – ohne Rücksicht auf die Betriebsdauer – einen Sachmangel aufweisen, sofern dessen Ursache bereits im Zeitpunkt des Gefahübergangs vorlag.
- Sachmängelansprüche verjähren in 12 Monaten. Dies gilt nicht, soweit das Gesetz gemäß §§ 438 Abs. 1 Nr. 2 (Bauwerke und Sachen für Bauwerke), 479 Abs. 1 (Rückgriffsanspruch) und 634a Abs. 1 Nr. 2 (Baumängel) BGB längere Fristen vorsieht sowie in Fällen der Verletzung des Lebens, des Körpers oder der Gesundheit, bei einer vorsätzlichen oder grob fahrlässigen Pflichtverletzung des Lieferers und bei arglistigem Verschweigen eines Mangels. Die gesetzlichen Regelungen über Ablaufhemmung, Hemmung und Neubeginn der Fristen bleiben unberührt.
- Der Besteller hat Sachmängel gegenüber dem Lieferer unverzüglich schriftlich zu rügen.
- Bei Mängelrügen dürfen Zahlungen des Bestellers in einem Umfang zurückgehalten werden, die in einem angemessenen Verhältnis zu den aufgetretenen Sachmängeln stehen. Der Besteller kann Zahlungen nur zurückhalten, wenn eine Mängelrüge geltend gemacht wird, über deren Berechtigung kein Zweifel bestehen kann. Erfolgte die Mängelrüge zu Unrecht, ist der Lieferer berechtigt, die ihm entstandenen Aufwendungen vom Besteller ersetzt zu verlangen.
- Zunächst ist dem Lieferer Gelegenheit zur Nacherfüllung innerhalb angemessener Frist zu gewähren.
- Schlägt die Nacherfüllung fehl, kann der Besteller – unbeschadet etwaiger Schadensersatzansprüche gemäß Art. XI – vom Vertrag zurücktreten oder die Vergütung mindern.
- Mängelansprüche bestehen nicht bei nur unerheblicher Abweichung von der vereinbarten Beschaffenheit, bei nur unerheblicher Beeinträchtigung der Brauchbarkeit, bei natürlicher Abnutzung oder Schäden, die nach dem Gefahübergang infolge fehlerhafter oder nachlässiger Behandlung, übermäßiger Beanspruchung, ungeeigneter Betriebsmittel, mangelhafter Bauarbeiten, ungeeigneten Baugrundes oder die aufgrund besonderer äußerer Einflüsse entstehen, die nach dem Vertrag nicht vorausgesetzt sind, sowie bei nicht reproduzierbaren Softwarefehlern. Werden vom Besteller oder von Dritten unsachgemäß Änderungen oder Instandsetzungsarbeiten vorgenommen, so bestehen für diese und die daraus entstehenden Folgen ebenfalls keine Mängelansprüche.
- Ansprüche des Bestellers wegen der zum Zweck der Nacherfüllung erforderlichen Aufwendungen, insbesondere Transport-, Wege-, Arbeits- und Materialkosten, sind ausgeschlossen, soweit die Aufwendungen sich erhöhen, weil der Gegenstand der Lieferung nachträglich an einen anderen Ort als die Niederlassung des Bestellers verbracht worden ist, es sei denn, die Verbringung entspricht seinem bestimmungsgemäßen Gebrauch.
- Rückgriffsansprüche des Bestellers gegen den Lieferer gemäß § 478 BGB (Rückgriff des Unternehmers) bestehen nur insoweit, als der Besteller mit seinem Abnehmer keine über die gesetzlichen Mängelansprüche hinausgehenden Vereinbarungen getroffen hat. Für den Umfang des Rückgriffsanspruchs des Bestellers gegen den Lieferer gemäß § 478 Abs. 2 BGB gilt ferner Nr. 8 entsprechend.
- Für Schadensersatzansprüche gilt im Übrigen Art. XI (Sonstige Schadensersatzansprüche). Weitergehende oder andere als die in diesem Art. VIII geregelten Ansprüche des Bestellers gegen den Lieferer und dessen Erfüllungsgehilfen wegen eines Sachmangels sind ausgeschlossen.

### IX. Gewerbliche Schutzrechte und Urheberrechte; Rechtsmängel

- Sofern nicht anders vereinbart, ist der Lieferer verpflichtet, die Lieferung lediglich im Land des Lieferorts frei von gewerblichen Schutzrechten und Urheberrechten Dritter (im Folgenden: Schutzrechte) zu erbringen. Sofern ein Dritter wegen der Verletzung von Schutzrechten durch vom Lieferer erbrachte, vertragsgemäß genutzte Lieferungen gegen den Besteller berechnete Ansprüche erhebt, haftet der Lieferer gegenüber dem Besteller innerhalb der in Art. VIII Nr. 2 bestimmten Frist wie folgt:
  - Der Lieferer wird nach seiner Wahl und auf seine Kosten für die betreffenden Lieferungen entweder ein Nutzungsrecht erwirken, sie so ändern, dass das Schutzrecht nicht verletzt wird, oder austauschen. Ist dies dem Lieferer nicht zu angemessenen Bedingungen möglich, stehen dem Besteller die gesetzlichen Rücktritts- oder Minderungsrechte zu.
  - Die Pflicht des Lieferers zur Leistung von Schadensersatz richtet sich nach Art. XI.
- Die vorstehend genannten Verpflichtungen des Lieferers bestehen nur, soweit der Besteller den Lieferer über die vom Dritten geltend gemachten Ansprüche unverzüglich schriftlich verständigt, eine Verletzung nicht anerkennt und dem Lieferer alle Abwehrmaßnahmen und Vergleichsverhandlungen vorbehalten bleiben. Stellt der Besteller die Nutzung der Lieferung aus Schadensminderungs- oder sonstigen wichtigen Gründen ein, ist er verpflichtet, den Dritten darauf hinzuweisen, dass mit der Nutzungseinstellung keine Anerkennung seiner Schutzrechtsverletzung verbunden ist.
- Ansprüche des Bestellers sind ausgeschlossen, soweit er die Schutzrechtsverletzung zu vertreten hat.
- Ansprüche des Bestellers sind ferner ausgeschlossen, soweit die Schutzrechtsverletzung durch spezielle Vorgaben des Bestellers, durch eine vom Lieferer nicht voraussehbare Anwendung oder dadurch verursacht wird, dass die Lieferung vom Besteller verändert oder zusammen mit nicht vom Lieferer gelieferten Produkten eingesetzt wird.
- Im Falle von Schutzrechtsverletzungen gelten für die in Nr. 1 a) geregelten Ansprüche des Bestellers im Übrigen die Bestimmungen des Art. VIII Nr. 4, 5 und 9 entsprechend.
- Bei Vorliegen sonstiger Rechtsmängel gelten die Bestimmungen des Art. VIII entsprechend.
- Weitergehende oder andere als die in diesem Art. IX geregelten Ansprüche des Bestellers gegen den Lieferer und dessen Erfüllungsgehilfen wegen eines Rechtsmangels sind ausgeschlossen.

### X. Unmöglichkeit; Vertragsanpassung

- Soweit die Lieferung unmöglich ist, ist der Besteller berechtigt, Schadensersatz zu verlangen, es sei denn, dass der Lieferer die Unmöglichkeit nicht zu vertreten hat. Jedoch beschränkt sich der Schadensersatzanspruch des Bestellers auf 10 % des Wertes desjenigen Teils der Lieferung, der wegen der Unmöglichkeit nicht in zweckdienlichen Betrieb genommen werden kann. Diese Beschränkung gilt nicht, soweit in Fällen des Vorsatzes, der groben Fahrlässigkeit oder wegen der Verletzung des Lebens, des Körpers oder der Gesundheit zwingend gehaftet wird; eine Änderung der Beweislast zum Nachteil des Bestellers ist hiermit nicht verbunden. Das Recht des Bestellers zum Rücktritt vom Vertrag bleibt unberührt.
- Sofern unvorhersehbare Ereignisse im Sinne von Art. IV Nr. 2 die wirtschaftliche Bedeutung oder den Inhalt der Lieferung erheblich verändern oder auf den Betrieb des Lieferers erheblich einwirken, wird der Vertrag unter Beachtung von Treu und Glauben angemessen angepasst. Soweit dies wirtschaftlich nicht vertretbar ist, steht dem Lieferer das Recht zu, vom Vertrag zurückzutreten. Will er von diesem Rücktrittsrecht Gebrauch machen, so hat er dies nach Erkenntnis der Tragweite des Ereignisses unverzüglich dem Besteller mitzuteilen und zwar auch dann, wenn zunächst mit dem Besteller eine Verlängerung der Lieferzeit vereinbart war.

### XI. Sonstige Schadensersatzansprüche

- Schadens- und Aufwendungsersatzansprüche des Bestellers (im Folgenden: Schadensersatzansprüche), gleich aus welchem Rechtsgrund, insbesondere wegen Verletzung von Pflichten aus dem Schuldverhältnis und aus unerlaubter Handlung, sind ausgeschlossen.
- Dies gilt nicht, soweit zwingend gehaftet wird, z. B. nach dem Produkthaftungsgesetz, in Fällen des Vorsatzes, der groben Fahrlässigkeit, wegen der Verletzung des Lebens, des Körpers oder der Gesundheit, wegen der Verletzung wesentlicher Vertragspflichten. Der Schadensersatzanspruch für die Verletzung wesentlicher Vertragspflichten ist jedoch auf den vertragstypischen, vorhersehbaren Schaden begrenzt, soweit nicht Vorsatz oder grobe Fahrlässigkeit vorliegt oder wegen der Verletzung des Lebens, des Körpers oder der Gesundheit gehaftet wird. Eine Änderung der Beweislast zum Nachteil des Bestellers ist mit den vorstehenden Regelungen nicht verbunden.
- Soweit dem Besteller nach diesem Art. XI Schadensersatzansprüche zustehen, verjähren diese mit Ablauf der für Sachmängelansprüche geltenden Verjährungsfrist gemäß Art. VIII Nr. 2. Bei Schadensersatzansprüchen nach dem Produkthaftungsgesetz gelten die gesetzlichen Verjährungsvorschriften.

### XII. Gerichtsstand und anwendbares Recht

- Alleiniger Gerichtsstand ist, wenn der Besteller Kaufmann ist, bei allen aus dem Vertragsverhältnis unmittelbar oder mittelbar sich ergebenden Streitigkeiten der Sitz des Lieferers. Der Lieferer ist jedoch auch berechtigt, am Sitz des Bestellers zu klagen.
- Für die Rechtsbeziehungen im Zusammenhang mit diesem Vertrag gilt deutsches materielles Recht unter Ausschluss des Übereinkommens der Vereinten Nationen über Verträge über den internationalen Warenkauf (CISG).

### XIII. Verbindlichkeit des Vertrages

Der Vertrag bleibt auch bei rechtlicher Unwirksamkeit einzelner Bestimmungen in seinen übrigen Teilen verbindlich. Das gilt nicht, wenn das Festhalten an dem Vertrag eine unzumutbare Härte für eine Partei darstellen würde.



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