

# EXPORT RETAIL PRICE LIST 2024

Valid from April 2024



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

Well-being  
through heat  
from electricity.





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# 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 qualitymanagement system at our production factories in Hartmannsdorf and Burgstädt.

Regular and 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 37 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.  
CEO



# THE TECHNO THERM SERVICE

QUALITY PRODUCTS AND SERVICES  
FROM GERMANY



Imagevideo

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 advantages and your **savings potential**
- Declaration of the combination with **renewable energies**
- Representation of life **cycle costs**
- Information on state funding opportunities
- Determination of the heat requirement of your object
- Technical planning of your project





With the installation of TECHNOTHERM 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**
- **Local emission-free heat**
- **Energy efficiency**
- **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 TECHNOTHERM space heating technology, we have been following our path for nearly four 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 is how self-sufficient, decentralized electricity production into thermal energy for buildings. People in many countries have no clean air and healthy heat.

With TECHNOTHERM electrical heating technology we provide an important contribution in an uncomplicated and effective manner to change this for a long time.

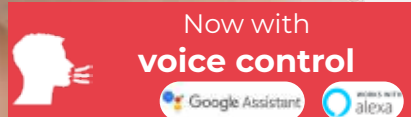


# ALL UNDER CONTROL: THE TECHNOTHERM APP

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 controlled by 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 and Alexa
- „Hey Google, set the temperature in the Kitchen on 21 °C“





Hey Google, set the temperature in the office on 21 °C.



Sure, done.  
The temperature in the office 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



Scan the QR code to download your app

## 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 APP

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

## WHAT DOES THE APP DO?

- **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.



You Tube



Explanatory  
video



- Open the application and select the brand Technotherm.
- Select the desired product.
- Click on "TRY IN SPACE" 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, colour etc

## AR Visual



Scan the QR code to download your app



# ECO-INTERFACE 1.0

## CENTRAL CONTROL MANAGEMENT

SMART-HOME-SOLUTION FOR  
ALL AFFILIATED DELTA DORE DEVICES



### WHAT DOES THE ECO INTERFACE DO?

Program your home according to your lifestyle.

Simplify your everyday life and control your devices via the Tydom app or by voice control. Control your smart home devices by smartphone, tablet or voice control via the Tydom Home interface. Many uses in the smart home: protection of family and property, control of thermal comfort, automation of shutters and blinds, lighting control, consumption display real-time status display of smart devices. Creation of scheduled or on-demand routines adapted to your habits (arrival, departure, etc.)



Scan the QR code to  
download your app

WITH THE **ECO INTERFACE** AND A SMARTPHONE, IT'S EASY TO TAKE CONTROL OF LOCAL DEVICES REMOTELY.

## FUNCTIONS

- Control of the room temperature in the living area
- Central switching option for lighting
- Creating individual room atmospheres
- Control your "RF" heating devices via Internet
- Operating the front door, entrance gate, garage door, etc.



## SCENARIOS

- Design of lighting scenes
- Creation of individual everyday scenarios (e.g.: "I'm leaving the house": All lights go out, the shutters close, etc.)

## FACTS

- Management of up to 10 locations (flats, second homes, shops, etc)
- Personalisation of the library, icons and interior photos
- Communication: X3D, X2D and ZigBee

# INTO A CLEAN FUTURE WITH TECHNO THERM

ELECTRICAL HEAT ACCUMULATORS  
CAN BE USED WITH PHOTOVOLTAIC SYSTEMS.

Use electric heaters with own electricity,  
clean and environmentally friendly by  
energy managers of PV system builders.

- 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 CO<sub>2</sub> 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 PLANTS.  
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.

**Talk to us!**



# PARTIAL STORAGE HEATING

## 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. Our unique patented Magmatic® heating tablets provide the source for the radiator.

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 TECHNOTHERM APP (DSM thermostat)**
- **Self-generated electricity can be used with the energymanager of you PV system providers**
- **Low Surface Temperature (LST) models available for Kindergardens, 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 and room thermostats.





Partial storage  
Heating

# Partial storage heating 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, 6 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.



All RAL colours are available  
available on request. Surcharge 245,20 €



## CONTROL YOUR DEVICES THROUGH INNOVATIVE NEW WIFI THERMOSTATS

### Thermostat DSM

The DSM thermostat can be controlled via the DSM in-terface (to be ordered separately, see page 125) 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-conform

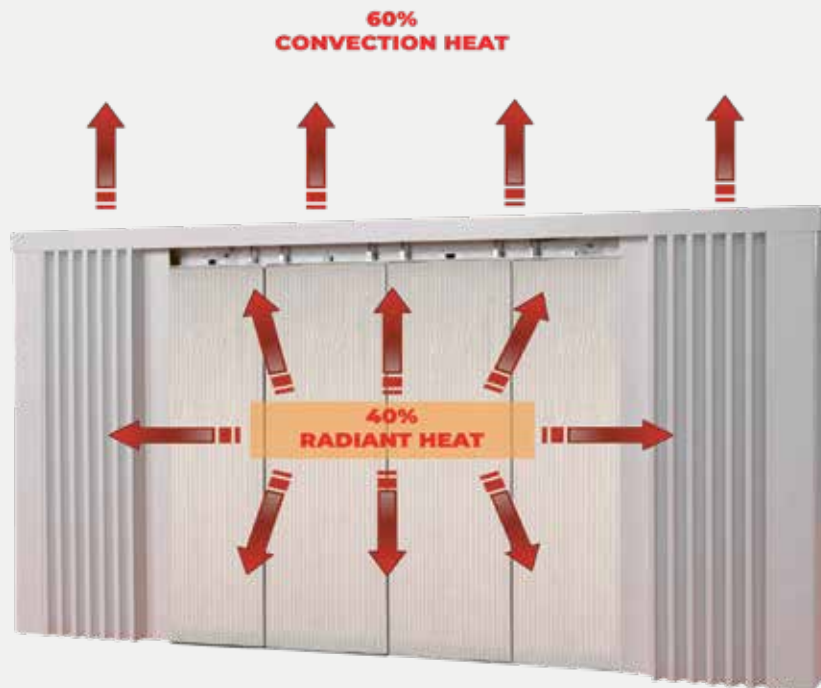


### Radio receiver RF

**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 125).



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

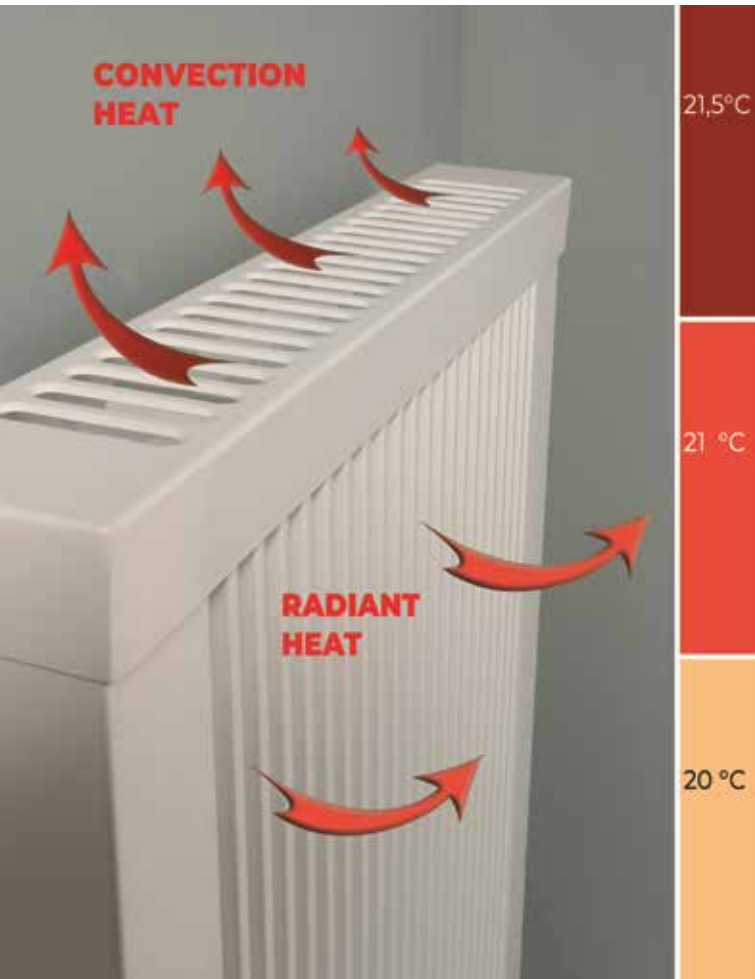


Our unique surface thermal-storage heaters are designed so that the heat is directly stored in special ceramics panels almost without energy losses. A six times larger surface ensures a correct balance of radiant and convection heat. As soon as the surface thermal-storage heater has reached its optimal 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, 6 hours of electricity are needed on average for 24 hours heat release.

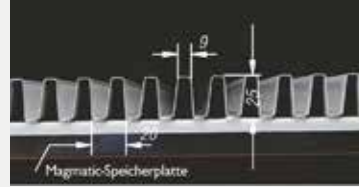
### MAGMATIC®-energy storage stone

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



◀ 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 heating

## Series TT KS-S



### TT KS-S

**Partial thermal-storage heater with individually spot-Welded 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

Partial storage heater, in addition with **DSM thermostat**. The DSM thermostat can be controlled via the DSM interface via the Internet using the free TECHNOTHERM 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.



Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 500 S	0,50	380 x 630 x 70	22,00	450 605 965	767,63
TT-KS 1000 S	1,00	680 x 630 x 70	36,00	450 610 965	1079,68
TT-KS 1200 S	1,20	680 x 630 x 70	36,00	450 612 965	1157,06
TT-KS 1500 S	1,50	980 x 630 x 70	50,00	450 615 965	1271,89
TT-KS 1800 S	1,80	980 x 630 x 70	50,00	450 618 965	1295,60
TT-KS 2000 S	2,00	1280 x 630 x 70	62,00	450 620 965	1340,54
TT-KS 2400 S	2,40	1280 x 630 x 70	62,00	450 624 965	1391,72
TT-KS 2800 S	2,80	1580 x 630 x 70	82,00	450 628 965	1526,53

Discount group TT\_200

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 500 S DSM	0,50	380 x 630 x 70	22,00	450 605 975	859,99
TT-KS 1000 S DSM	1,00	680 x 630 x 70	36,00	450 610 975	1163,30
TT-KS 1200 S DSM	1,20	680 x 630 x 70	36,00	450 612 975	1238,19
TT-KS 1500 S DSM	1,50	980 x 630 x 70	50,00	450 615 975	1348,03
TT-KS 1800 S DSM	1,80	980 x 630 x 70	50,00	450 618 975	1369,25
TT-KS 2000 S DSM	2,00	1280 x 630 x 70	62,00	450 620 975	1412,93
TT-KS 2400 S DSM	2,40	1280 x 630 x 70	62,00	450 624 975	1462,86
TT-KS 2800 S DSM	2,80	1580 x 630 x 70	82,00	450 628 975	1593,92

Discount group TT\_200

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.



## TT KS-S RF

**Partial storage heater, 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.**

## TT KS-S plus

**Partial storage heater 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 B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 500 S RF	0,50	380 x 630 x 70	22,00	450 605 955	822,55
TT-KS 1000 S RF	1,00	680 x 630 x 70	36,00	450 610 955	1135,84
TT-KS 1200 S RF	1,20	680 x 630 x 70	36,00	450 612 955	1214,48
TT-KS 1500 S RF	1,50	980 x 630 x 70	50,00	450 615 955	1328,06
TT-KS 1800 S RF	1,80	980 x 630 x 70	50,00	450 618 955	1350,53
TT-KS 2000 S RF	2,00	1280 x 630 x 70	62,00	450 620 955	1396,71
TT-KS 2400 S RF	2,40	1280 x 630 x 70	62,00	450 624 955	1446,64
TT-KS 2800 S RF	2,80	1580 x 630 x 70	82,00	450 628 955	1581,44

Discount group TT\_200

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.

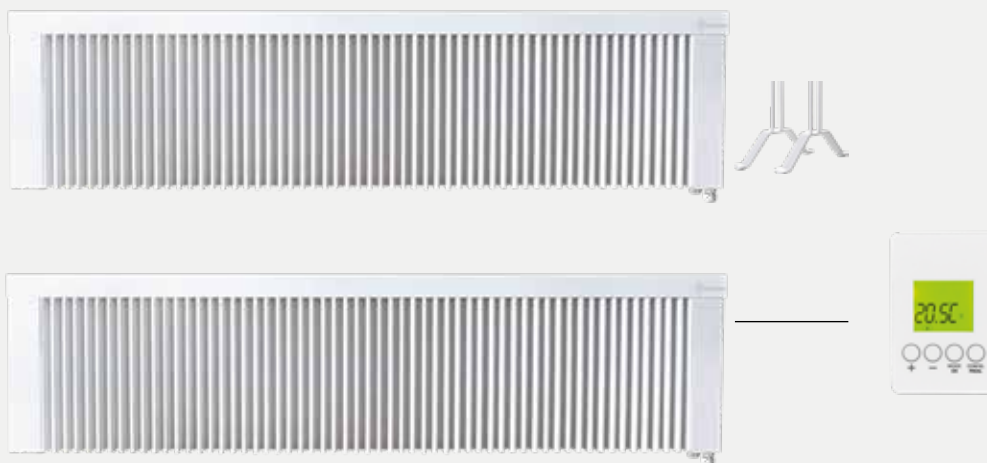
Model	Power [kW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 500 S plus	0,50	380 x 630 x 70	22,00	450 605 945	796,34
TT-KS 1000 S plus	1,00	680 x 630 x 70	36,00	450 610 945	1109,62
TT-KS 1200 S plus	1,20	680 x 630 x 70	36,00	450 612 945	1187,01
TT-KS 1500 S plus	1,50	980 x 630 x 70	50,00	450 615 945	1300,60
TT-KS 1800 S plus	1,80	980 x 630 x 70	50,00	450 618 945	1324,31
TT-KS 2000 S plus	2,00	1280 x 630 x 70	62,00	450 620 945	1369,25
TT-KS 2400 S plus	2,40	1280 x 630 x 70	62,00	450 624 945	1420,42
TT-KS 2800 S plus	2,80	1580 x 630 x 70	82,00	450 628 945	1556,46

Discount group TT\_200  
ge.

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.

# Partial storage heating

## Series TT KS-N



### TT KS-N

**Low partial thermal-storage heater with individually spot-welded 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

**Low partial thermal-storage heater, in addition with DSM thermostat.** The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 125) via the Internet using the free TECHNOTHERM 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 125).



Model	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 800 N	0,80	680 x 340 x 70	21,00	450 308 965	801,33
TT-KS 1200 N	1,20	980 x 340 x 70	24,50	450 312 965	1032,24
TT-KS 1600 N	1,60	1280 x 340 x 70	34,50	450 316 965	1246,93
TT-KS 2000 N	2,00	1580 x 340 x 70	38,00	450 320 965	1275,64

Discount group TT\_200

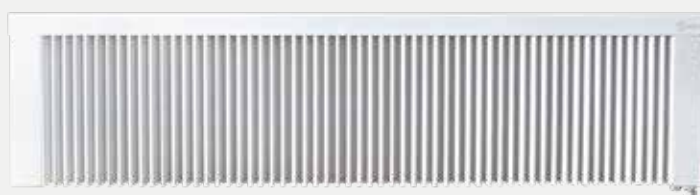
All units can also be ordered in IPX4 for a 60.30 Euro surcharge.

Model	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 800 N DSM	0,80	680 x 340 x 70	21,00	450 308 975	891,21
TT-KS 1200 N DSM	1,20	980 x 340 x 70	24,50	450 312 975	1115,86
TT-KS 1600 N DSM	1,60	1280 x 340 x 70	34,50	450 316 975	1323,07
TT-KS 2000 N DSM	2,00	1580 x 340 x 70	38,00	450 320 975	1350,53

Discount group TT\_200

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.





## TT KS-N RF

**Low partial storage heater, 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.**

## TT KS-N plus

**Low partial storage heater 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 B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 800 N RF	0,80	680 x 340 x 70	21,00	450 308 955	856,25
TT-KS 1200 N RF	1,20	980 x 340 x 70	24,50	450 312 955	1087,16
TT-KS 1600 N RF	1,60	1280 x 340 x 70	34,50	450 316 955	1300,60
TT-KS 2000 N RF	2,00	1580 x 340 x 70	38,00	450 320 955	1330,55

Discount group TT\_200

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 800 N plus	0,80	680 x 340 x 70	21,00	450 308 945	828,79
TT-KS 1200 N plus	1,20	980 x 340 x 70	24,50	450 312 945	1062,20
TT-KS 1600 N plus	1,60	1280 x 340 x 70	34,50	450 316 945	1275,64
TT-KS 2000 N plus	2,00	1580 x 340 x 70	38,00	450 320 945	1303,11

Discount group TT\_200

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.

# Partial storage heating

## Series TT KS-H



### TT KS-H DSM

**High partial thermal-storage heater , in addition with DSM thermostat.** The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 125) via the Internet using the free TECHNOTHERM 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 125).

### TT KS-H RF

**High partial storage heater, 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.**



Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 1200 H DSM	1,20	380 x 1240 x 70	35,00	450 112 975	1289,36
TT-KS 1800 H DSM	1,80	550 x 1240 x 70	58,00	450 118 975	1415,43
TT-KS 2200 H DSM	2,20	680 x 1240 x 70	66,00	450 122 975	1573,95

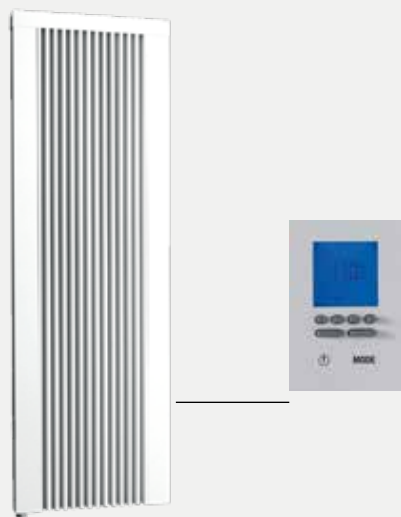
Discount group TT\_200

All units can also be ordered in IPX4 for a 60,30 Euro surcharge.

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 1200 H RF	1,20	380 x 1240 x 70	35,00	450 112 955	1265,66
TT-KS 1800 H RF	1,80	550 x 1240 x 70	58,00	450 118 955	1399,21
TT-KS 2200 H RF	2,20	680 x 1240 x 70	66,00	450 122 955	1561,47

Discount group TT\_200

All units can also be ordered in IPX4 for a 60,30 Euro surcharge.



## TT KS-H plus

**High partial storage heater with the "plus" thermostat** for easy programming. The thermostat detects open windows and occupies an additional start control with various daily and weekly programs. Large display for good device operations. **IP 24**



Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 1200 H plus	1,20	380 x 1240 x 70	35,00	450 112 945	1240,69
TT-KS 1800 H plus	1,80	550 x 1240 x 70	58,00	450 118 945	1371,75
TT-KS 2200 H plus	2,20	680 x 1240 x 70	66,00	450 122 945	1535,26

Discount group TT\_200

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.

# Partial storage heating for social facilities

Series TT KS-S LT



## TT KS-LT

**Surface temperature reduced to max. 60 °C for kindergartens, schools and social institutions (LT = Low Temperature).** Surface white powder-coated RAL 9003, only 70 mm deep, a stepless built-in thermostat regulates the room temperature, connection cable 1.5 m with plug, 230 V ~, including feet. **Mobile variant.**

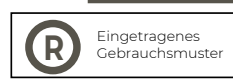
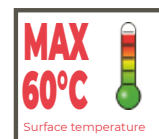
**IP 20**

## TT KS-LT RF

**Low temperature partial storage heater, 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.**



Model	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 700 S LT	0,70	680 x 630 x 70	36,00	450 607 665	1206,99
TT-KS 1200 S LT	1,20	980 x 630 x 70	50,00	450 612 665	1343,04
TT-KS 1500 S LT	1,50	1280 x 630 x 70	62,00	450 615 665	1440,39
TT-KS 1800 S LT	1,80	1580 x 630 x 70	82,00	450 618 665	1575,21

Discount group TT\_200

All units can also be ordered in IPX4 for a 60,30 Euro surcharge.

Model	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 700 S LT RF	0,70	680 x 630 x 70	36,00	450 607 655	1260,66
TT-KS 1200 S LT RF	1,20	980 x 630 x 70	50,00	450 612 655	1399,21
TT-KS 1500 S LT RF	1,50	1280 x 630 x 70	62,00	450 615 655	1494,06
TT-KS 1800 S LT RF	1,80	1580 x 630 x 70	82,00	450 618 655	1630,11

Discount group TT\_200

All units can also be ordered in IPX4 for a 60,30 Euro surcharge.



## TT KS-LT plus

Low temperature partial storage heater 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 low temp. partial storage heater, 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.

## TT KS-LT H plus

High low temperature partial storage heater 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 B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 700 S LT plus	0,70	680 x 630 x 70	36,00	450 607 645	1238,20
TT-KS 1200 S LT plus	1,20	980 x 630 x 70	50,00	450 612 645	1374,24
TT-KS 1500 S LT plus	1,50	1280 x 630 x 70	62,00	450 615 645	1471,60
TT-KS 1800 S LT plus	1,80	1580 x 630 x 70	82,00	450 618 645	1606,39

Discount group TT\_200

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 870 LT H RF	0,87	380 x 1240 x 70	35,00	450 108 655	1340,54
TT-KS 1240 LT H RF	1,24	550 x 1240 x 70	58,00	450 112 655	1470,34
TT-KS 1740 LT H RF	1,74	680 x 1240 x 70	66,00	450 170 655	1598,91

Discount group TT\_200

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 870 LT H plus	0,87	380 x 1240 x 70	35,00	450 108 645	1316,83
TT-KS 1240 LT H plus	1,24	550 x 1240 x 70	58,00	450 112 645	1445,39
TT-KS 1740 LT H plus	1,74	680 x 1240 x 70	66,00	450 170 645	1575,21

Discount group TT\_200

All units can also be ordered in IPX4 for a 60.30 Euro surcharge.

# Exchangeable front for TT KS series devices

## Replaceable front



Fig. Schematic. The fronts are of course continuous

### Change front Design

### Change front Smooth surface

This front element (RAL 9003) can be placed on an existing partial storage heater in very few steps. This design element gives your heating system a new look. The exchangeable fronts are available with a smooth surface or design stripes.

Model Design	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design - Front 38	380 x 630	4,00	450 920 380	108,05
Design - Front 68	680 x 630	5,00	450 920 680	119,23
Design - Front 85	850 x 630	6,00	450 920 850	130,41
Design - Front 98	980 x 630	6,50	450 920 980	139,73
Design - Front 128	1280 x 630	8,00	450 920 280	162,08
Design - Front 68 N	680 x 340	3,00	450 930 680	108,05
Design - Front 85 N	850 x 340	4,00	450 930 850	119,23
Design - Front 98 N	980 x 340	4,50	450 930 980	130,41
Design - Front 128 N	1280 x 340	5,00	450 930 280	139,73
Design - Front 158 N	1580 x 340	6,00	450 930 580	150,90

Discount group TT\_300

Modell Smooth	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Wechsel - Front 38	380 x 630	4,00	450 921 380	108,05
Wechsel - Front 68	680 x 630	5,00	450 921 680	119,23
Wechsel - Front 85	850 x 630	6,00	450 921 850	130,41
Wechsel - Front 98	980 x 630	6,50	450 921 980	139,73
Wechsel - Front 128	1280 x 630	8,00	450 921 280	162,08
Wechsel - Front 68 N	680 x 340	3,00	450 931 680	108,05
Wechsel - Front 85 N	850 x 340	4,00	450 931 850	119,23
Wechsel - Front 98 N	980 x 340	4,50	450 931 980	130,41
Wechsel - Front 128 N	1280 x 340	5,00	450 931 280	139,73
Wechsel - Front 158 N	1580 x 340	6,00	450 931 580	150,90

Discount group TT\_300



All RAL colours are available on request. Surcharge 124 €



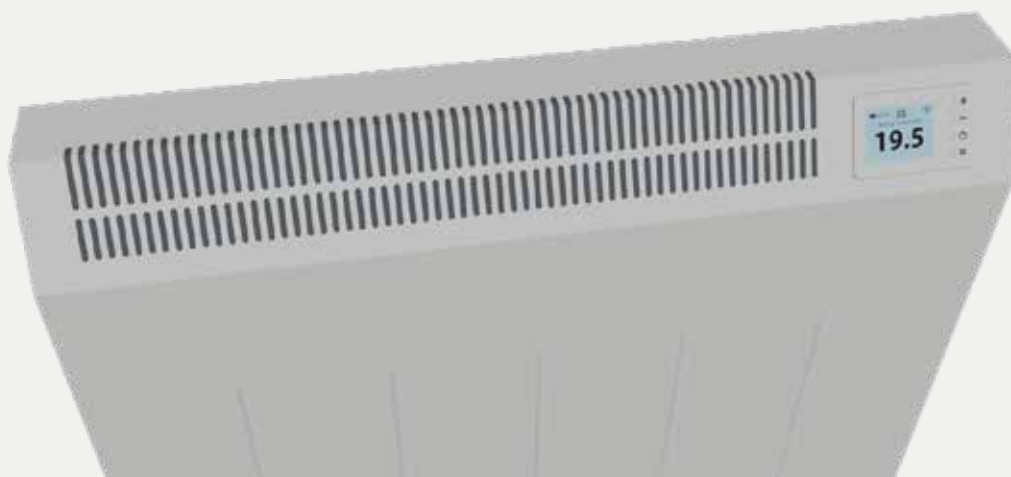
Fig. Schematic. The fronts are of course continuous



Fig. Schematic. The fronts are of course continuous

# Static Storage Heater - Eco-Design

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

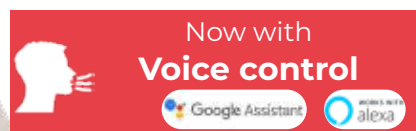


▲ Simply installation with unique housing design

Type TTB-E Duo storage heaters with static heat emission are ideal as heating devices for many types of rooms. A new generation of heat storage with an internet-enabled thermostat. It measures the room temperature and decides on the duration of the charge.

- 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
- Ideal for operation with your own photovoltaic system.

▲ Controllable via Internet with the DSM interface







# Static storage Heater TTB-E Duo

SMART STORAGE HEATING WITH ELECTRONIC CONTROL  
FOR EXTENDED CHARGING TIMES



- ▲ · 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.

TTB-E 7 Duo for 7-8h charging times

TTB-E 14 Duo for 14-16h charging times



## Only 18.5 cm deep



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





## 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 7 to 16 hours charging time. Silent radiant and convection heat generation. Corresponding safety standard EN 6033, Safety class 1. colour RAL 9003. regulation of the room temperature depending on the load. Additional "direct acting" aluminum heating element.

Static storage  
Heater



Model 7	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTB-E 7 Duo 8+	0,85	460 x 720 x 185	50,00	842 508 007	887,45
TTB-E 7 Duo 17+	1,70	670 x 720 x 185	88,00	842 517 007	1065,95
TTB-E 7 Duo 26+	2,55	880 x 720 x 185	127,00	842 526 007	1244,43
TTB-E 7 Duo 34+	3,44	1090 x 720 x 185	166,00	842 534 007	1422,92

Discount group TT\_120

Model 14	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTB-E 14 Duo 8+	0,48	460 x 720 x 185	50,00	842 508 014	887,45
TTB-E 14 Duo 17+	0,96	670 x 720 x 185	88,00	842 517 014	1065,95
TTB-E 14 Duo 26+	1,44	880 x 720 x 185	127,00	842 526 014	1244,43
TTB-E 14 Duo 34+	1,92	1090 x 720 x 185	166,00	842 534 014	1422,92

Discount group TT\_120

# DIRECT ACTING HEATERS

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

In many rooms that do not need to be heated permanently, conventional heating is uneconomical or simply too expensive. However, if you still don't want to do without the usual heating comfort, electric direct heaters from TECHNOTHERM are the first choice. In the hobby room, bathroom, guest toilet or home office, they quickly provide cosy warmth with a high level of economy.

Whether by natural convection or supported by Radiant heat, TECHNOTHERM direct heaters provide comfort through direct heat wherever you need it. TECHNOTHERM offers you the right solution for almost every heating problem.

- **Wall Mounted Panel Heaters:**      **unique Designs and highly efficient**
- **Infra Red Heater:**                      **accurate 'short wave' heat**
- **Frost Protective Heaters:**              **safe and affective**



Direct Heating

# Wall mounted Panel Heater VPS

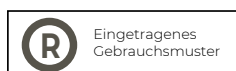
WITH BUILT-IN SPECIAL HEAT RETENTION CERAMIC TABLETS



▲ The product range of TECHNOTHERM panel heating offers perfect solutions for all technical demands on heating. Whether in large-dimensional 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 special storage stone.

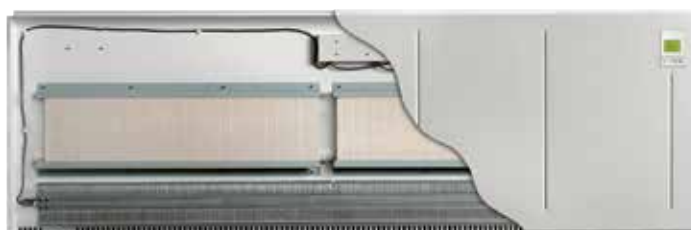
Moreover, this series is provided with electronic thermostats, which allow extra comfortable and fully controllable heating.

**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.**



All RAL colours are available upon request.  
Extra charge: 143,64€

**RAL 9003 housing colour**



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

# Direct heating

## 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. **IP 20**

### VPS DSM, VPS H DSM

Wall convector with DSM thermostat - can be controlled with the DSM interface via the Internet using the free TECHNOTHERM APP. Separate temperatures and various time programs can be set for each room (see page 8-9).

### VPS RF

With built-in radio receiver for control with an external radio thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control via the Internet

Model white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS 750 plus	0,75	750 x 450 x 68	11,90	429 754 211	450,59
VPS 1000 plus	1,00	750 x 450 x 68	11,90	429 754 212	463,07
VPS 1200 plus	1,20	750 x 450 x 68	11,90	429 754 213	475,55
VPS 1500 plus	1,50	1050 x 450 x 68	14,30	429 754 214	516,74
VPS 2000 plus	2,00	1050 x 450 x 68	14,30	429 754 216	545,45
VPS 1200 H plus	1,20	450 x 1050 x 68	14,30	429 755 243	534,22

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS 750 DSM	0,75	750 x 450 x 68	11,90	429 754 271	541,72
VPS 1000 DSM	1,00	750 x 450 x 68	11,90	429 754 272	554,20
VPS 1200 DSM	1,20	750 x 450 x 68	11,90	429 754 273	565,42
VPS 1500 DSM	1,50	1050 x 450 x 68	14,30	429 754 274	606,61
VPS 2000 DSM	2,00	1050 x 450 x 68	14,30	429 754 276	635,32
VPS 1200 H DSM	1,20	450 x 1050 x 68	14,30	429 755 233	625,34

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS 750 RF	0,75	750 x 450 x 68	11,90	429 754 221	491,78
VPS 1000 RF	1,00	750 x 450 x 68	11,90	429 754 222	504,27
VPS 1200 RF	1,20	750 x 450 x 68	11,90	429 754 223	520,49
VPS 1500 RF	1,50	1050 x 450 x 68	14,30	429 754 224	562,94
VPS 2000 RF	2,00	1050 x 450 x 68	14,30	429 754 226	590,40
VPS 1200 H RF	1,20	450 x 1050 x 68	14,30	429 755 223	580,41

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

# Direct heating

## Series VPS anthracite



### 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. **IP 20**

### VPS DSM, VPS H DSM

Wall convector with DSM thermostat - can be controlled with the DSM interface via the Internet using the free TECHNOTHERM APP. Separate temperatures and various time programs can be set for each room (see page 8-9).

### VPS RF

With built-in radio receiver for control with an external radio thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control via the Internet

Model Anthrazit	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS-Z 750 plus	0,75	750 x 450 x 68	11,90	429 754 331	574,16
VPS-Z 1000 plus	1,00	750 x 450 x 68	11,90	429 754 332	586,64
VPS-Z 1200 plus	1,20	750 x 450 x 68	11,90	429 754 333	599,12
VPS-Z 1500 plus	1,50	1050 x 450 x 68	14,30	429 754 334	640,30
VPS-Z 2000 plus	2,00	1050 x 450 x 68	14,30	429 754 335	669,02
VPS-Z 1200 H plus	1,20	450 x 1050 x 68	14,30	429 755 333	657,78

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model Anthrazit	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS-Z 750 DSM	0,75	750 x 450 x 68	11,90	429 754 341	665,28
VPS-Z 1000 DSM	1,00	750 x 450 x 68	11,90	429 754 342	677,76
VPS-Z 1200 DSM	1,20	750 x 450 x 68	11,90	429 754 343	689,00
VPS-Z 1500 DSM	1,50	1050 x 450 x 68	14,30	429 754 344	730,18
VPS-Z 2000 DSM	2,00	1050 x 450 x 68	14,30	429 754 345	758,89
VPS-Z 1200 H DSM	1,20	450 x 1050 x 68	14,30	429 755 346	748,91

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model Anthrazit	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS-Z 750 RF	0,75	750 x 450 x 68	11,90	429 754 351	615,35
VPS-Z 1000 RF	1,00	750 x 450 x 68	11,90	429 754 352	627,83
VPS-Z 1200 RF	1,20	750 x 450 x 68	11,90	429 754 353	644,05
VPS-Z 1500 RF	1,50	1050 x 450 x 68	14,30	429 754 354	686,49
VPS-Z 2000 RF	2,00	1050 x 450 x 68	14,30	429 754 355	713,95
VPS-Z 1200 H RF	1,20	450 x 1050 x 68	14,30	429 755 356	703,98

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.





# Wall Mounted VPS Design Panel Heater

WITH 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 colours

**High-Quality Glass Front**



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 heating

## Series VPS-Design



### Wall convector VPS-Design black, white

**Wall convector with glass front** in black or white with special ceramic thermal-storage heater, surface is writeable for bistros, res-taurants, 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 125).



Model black	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS-Design B 1000 RF	1,00	755 x 454 x 68	15,00	429 754 402	770,12
VPS-Design B 1200 RF	1,20	755 x 454 x 68	15,00	429 754 403	796,34
VPS-Design B 1500 RF	1,50	1055 x 454 x 68	20,00	429 754 404	902,43
VPS-Design B 2000 RF	2,00	1055 x 454 x 68	20,00	429 754 406	929,90
VPS-Design B 1200 H RF	1,20	454 x 1055 x 68	20,00	429 755 403	874,97

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS-Design W 1000 RF	1,00	755 x 454 x 68	15,00	429 754 302	770,12
VPS-Design W 1200 RF	1,20	755 x 454 x 68	15,00	429 754 303	796,34
VPS-Design W 1500 RF	1,50	1055 x 454 x 68	20,00	429 754 304	902,43
VPS-Design W 2000 RF	2,00	1055 x 454 x 68	20,00	429 754 306	929,90
VPS-Design W 1200 H RF	1,20	454 x 1055 x 68	20,00	429 755 303	874,97

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

# Wall convector SPH

ULTRA-FLAT AND EXCEPTIONAL DESIGN!



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

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



With special storage stone for long-lasting warmth.



All RAL colours are available upon request.  
Extra charge: 143,64 €



## 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 white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
SPH 750 plus	0,75	750 x 500 x 80	11,80	429 754 710	450,59
SPH 1000 plus	1,00	750 x 500 x 80	11,80	429 754 711	463,07
SPH 1200 plus	1,20	750 x 500 x 80	11,80	429 754 712	475,55
SPH 1500 plus	1,50	1050 x 500 x 80	17,00	429 754 713	516,74
SPH 2000 plus	2,00	1050 x 500 x 80	17,00	429 754 714	545,46
SPH 1200 H plus	1,20	500 x 1050 x 80	17,00	429 754 715	535,47

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model anthracite	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
SPH-Z 750 plus	0,75	750 x 500 x 80	11,80	429 754 760	574,16
SPH-Z 1000 plus	1,00	750 x 500 x 80	11,80	429 754 761	586,64
SPH-Z 1200 plus	1,20	750 x 500 x 80	11,80	429 754 762	599,12
SPH-Z 1500 plus	1,50	1050 x 500 x 80	17,00	429 754 763	640,3
SPH-Z 2000 plus	2,00	1050 x 500 x 80	17,00	429 754 764	669,02
SPH-Z 1200 H plus	1,20	500 x 1050 x 80	17,00	429 754 765	659,04

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

# Direct heating

## 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 125) 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-conform, connection cable 1.5 m with plug.



Model white	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
SPH 750 DSM	0,75	750 x 500 x 85	11,80	429 754 720	541,71
SPH 1000 DSM	1,00	750 x 500 x 85	11,80	429 754 721	554,19
SPH 1200 DSM	1,20	750 x 500 x 85	11,80	429 754 722	565,42
SPH 1500 DSM	1,50	1050 x 500 x 85	17,00	429 754 723	606,61
SPH 2000 DSM	2,00	1050 x 500 x 85	17,00	429 754 724	635,32
SPH 1200 H DSM	1,20	500 x 1050 x 85	17,00	429 754 725	625,34

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model anthracite	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
SPH-Z 750 DSM	0,75	750 x 500 x 85	11,80	429 754 770	665,28
SPH-Z 1000 DSM	1,00	750 x 500 x 85	11,80	429 754 771	677,76
SPH-Z 1200 DSM	1,20	750 x 500 x 85	11,80	429 754 772	688,99
SPH-Z 1500 DSM	1,50	1050 x 500 x 85	17,00	429 754 773	730,18
SPH-Z 2000 DSM	2,00	1050 x 500 x 85	17,00	429 754 774	758,89
SPH-Z 1200 H DSM	1,20	500 x 1050 x 85	17,00	429 754 775	748,91

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.



## 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 weekday control (see page 125).**



Model white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
SPH 750 RF	0,75	750 x 500 x 80	11,80	429 754 730	491,78
SPH 1000 RF	1,00	750 x 500 x 80	11,80	429 754 731	504,26
SPH 1200 RF	1,20	750 x 500 x 80	11,80	429 754 732	520,49
SPH 1500 RF	1,50	1050 x 500 x 80	17,00	429 754 733	562,93
SPH 2000 RF	2,00	1050 x 500 x 80	17,00	429 754 734	590,38
SPH 1200 H RF	1,20	500 x 1050 x 80	17,00	429 754 735	580,40

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model anthracite	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
SPH-Z 750 RF	0,75	750 x 500 x 80	11,80	429 754 780	615,35
SPH-Z 1000 RF	1,00	750 x 500 x 80	11,80	429 754 781	627,83
SPH-Z 1200 RF	1,20	750 x 500 x 80	11,80	429 754 782	644,06
SPH-Z 1500 RF	1,50	1050 x 500 x 80	17,00	429 754 783	686,49
SPH-Z 2000 RF	2,00	1050 x 500 x 80	17,00	429 754 784	713,95
SPH-Z 1200 H RF	1,20	500 x 1050 x 80	17,00	429 754 785	703,98

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

# Direct heating

SPH with smooth front and 2.5D - motif printing



**Ultra-Slim flat fronted convector heater with special heat retention tablets to optimise shorter heating up times and longer heat output. These heaters come c/w built-in 24/7 programmable DSM thermostat with optional APP control,**

The front panel has the option to be printed in a unique 2.5D effect (please see page 90 for more information).

This can be done with either personal photos, or with one of our 90 x design options.







Direct Heating



This special '2.5D' printing process creates a haptic relief image on the surface, which creates a unique a '3D' effect. These different layers create the plastic, realistic appearance.

Therefore it is possible for us to create an electric heater, printed to your own individual specific design.

If you have chosen a wall convector of the series: SPH ...plus/...RF or ...DSM with a printed front of your choice, please indicate this in your order. The corresponding order number can be found in the price table. The indicated price is a surcharge per wall convector.

Model Front with 2.5D - your motiv	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Motiv-Front SPH 750 - 2,5D	750 x 500	3,0	429 700 101	150,08
Motiv-Front SPH 1000 - 2,5D	750 x 500	3,0	429 700 101	150,08
Motiv-Front SPH 1200 - 2,5D	750 x 500	3,0	429 700 101	150,08
Motiv-Front SPH 1500 - 2,5D	1050 x 500	4,0	432 700 102	170,78
Motiv-Front SPH 2000 - 2,5D	1050 x 500	4,0	432 700 102	170,78
Motiv-Front SPH 1200 H - 2,5D	500 x 1050	4,0	434 700 103	170,78

# Wall convector VPN

ULTRA-FLAT AND EXCEPTIONAL DESIGN!



Ultra-flat, internet-capable and in an extraordinary design!



The built-in thermostat "DSH" have an "open window" function and various temperature programs, which greatly simplify the operation of the heaters. The control unit is located at the top of the housing.



The VPN series impresses with its unique flat design of only 6.8cm.



All RAL colours are available upon request.  
Extra charge: 143,64 €



## VPN

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 white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPN 750 DSH	0,75	750 x 450 x 68	8,70	429 754 800	383,22
VPN 1000 DSH	1,00	750 x 450 x 68	8,70	429 754 801	395,24
VPN1200 DSH	1,20	750 x 450 x 68	8,79	429 754 802	419,26
VPN 1500 DSH	1,50	1050 x 450 x 68	12,50	429 754 803	479,33
VPN 2000 DSH	2,00	1050 x 450 x 68	12,50	429 754 804	515,37
VPN 1200 H DSH	1,20	450 x 1050 x 68	8,70	429 755 805	503,35

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model anthracite	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPN-Z 750 DSH	0,75	750 x 450 x 68	8,70	429 754 850	502,15
VPN-Z 1000 DSH	1,00	750 x 450 x 68	8,70	429 754 851	514,17
VPN-Z 1200 DSH	1,20	750 x 450 x 68	8,79	429 754 852	538,19
VPN-Z 1500 DSH	1,50	1050 x 450 x 68	12,50	429 754 853	598,26
VPN-Z 2000 DSH	2,00	1050 x 450 x 68	12,50	429 754 854	634,30
VPN-Z 1200 H DSH	1,20	450 x 1050 x 68	8,70	429 754 855	622,28

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

# WALL MOUNTED CHM Convecto-Rad

PERFECT **COMBINATION** OF PARTIAL STORAGE AND DIRECT 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**



With the 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.



All RAL colours are available upon request.  
Extra charge: 143,64 €



# Direct heating

## Series CHM



### Wall convector CHM DSM

Exclusive electric heating 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 125), 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 125).

Model white	Power [kW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
CHM 500 DSM	0,50	380 x 630 x 70	10,00	440 605 330	695,23
CHM 1000 DSM	1,00	680 x 630 x 70	16,50	440 610 330	813,81
CHM 1500 DSM	1,50	980 x 630 x 70	23,50	440 615 330	956,10
CHM 2000 DSM	2,00	980 x 630 x 70	23,50	440 620 330	1021,01
CHM 1000 H DSM	1,00	380 x 1240 x 70	16,50	440 110 330	1021,01

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model anthracite	Power [kW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
CHM-Z 500 DSM	0,50	380 x 630 x 70	10,00	440 605 730	818,8
CHM-Z 1000 DSM	1,00	680 x 630 x 70	16,50	440 610 730	937,38
CHM-Z 1500 DSM	1,50	980 x 630 x 70	23,50	440 615 730	1079,67
CHM-Z 2000 DSM	2,00	980 x 630 x 70	23,50	440 620 730	1143,33
CHM-Z 1000 H DSM	1,00	380 x 1240 x 70	16,50	440 110 730	1143,33

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model weiß	Power [kW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
CHM 500 RF	0,50	380 x 630 x 70	10,00	440 605 950	651,54
CHM 1000 RF	1,00	680 x 630 x 70	16,50	440 610 950	773,87
CHM 1500 RF	1,50	980 x 630 x 70	23,50	440 615 950	921,15
CHM 2000 RF	2,00	980 x 630 x 70	23,50	440 620 950	988,56
CHM 1000 H RF	1,00	380 x 1240 x 70	16,50	440 110 950	988,56

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.



## 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 B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
CHM-Z 500 RF	0,50	380 x 630 x 70	10,00	440 605 750	775,12
CHM-Z 1000 RF	1,00	680 x 630 x 70	16,50	440 610 750	897,44
CHM-Z 1500 RF	1,50	980 x 630 x 70	23,50	440 615 750	1044,72
CHM-Z 2000 RF	2,00	980 x 630 x 70	23,50	440 620 750	1112,13
CHM-Z 1000 H RF	1,00	380 x 1240 x 70	16,50	440 110 750	1112,13

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
CHM 500 plus	0,50	380 x 630 x 70	10,00	440 605 940	625,34
CHM 1000 plus	1,00	680 x 630 x 70	16,50	440 610 940	748,91
CHM 1500 plus	1,50	980 x 630 x 70	23,50	440 615 940	896,19
CHM 2000 plus	2,00	980 x 630 x 70	23,50	440 620 940	962,34
CHM 1000 H plus	1,00	380 x 1240 x 70	16,50	440 110 940	962,34

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

Model anthracite	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
CHM-Z 500 plus	0,50	380 x 630 x 70	10,00	440 605 740	748,91
CHM-Z 1000 plus	1,00	680 x 630 x 70	16,50	440 610 740	872,47
CHM-Z 1500 plus	1,50	980 x 630 x 70	23,50	440 615 740	1019,76
CHM-Z 2000 plus	2,00	980 x 630 x 70	23,50	440 620 740	1085,91
CHM-Z 1000 H plus	1,00	380 x 1240 x 70	16,50	440 110 740	1085,91

Discount group TT\_200

All units can also be ordered in IPX4 for a 45,82 Euro surcharge.

# CONVECTOR CPH and CVS

SLIM AND FAST



- Simple to operate
- Adjustment range in 7 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

Device is "ON" and in heating mode



Device is "ON" but no heating mode



Device is "OFF"



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 heating

## Convactor Series CPH and 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 B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
CPH 1000	1,00	415 x 445 x 85	8,00	429 753 102	324,52
CPH 1500	1,50	565 x 445 x 85	10,00	429 753 104	353,24
CPH 2000	2,00	695 x 445 x 85	13,00	429 753 106	391,92
CPH 2400	2,40	915 x 445 x 85	16,00	429 753 108	405,66
CPH 1000 E	1,00	415 x 445 x 85	8,00	429 753 302	384,42
CPH 1500 E	1,50	565 x 445 x 85	10,00	429 753 304	413,15
CPH 2000 E	2,00	695 x 445 x 85	13,00	429 753 306	451,84
CPH 2400 E	2,40	915 x 445 x 85	16,00	429 753 308	466,82

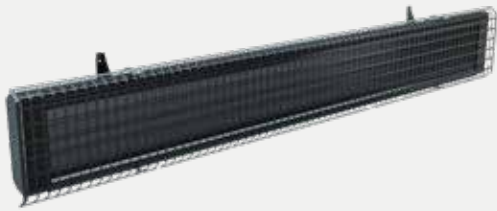
Discount group TT\_200

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
CVS 501	0,50	345 x 445 x 85	3,70	429 752 100	197,21
CVS 1001	1,00	415 x 445 x 85	4,80	429 752 102	225,92
CVS 1501	1,50	565 x 445 x 85	6,00	429 752 104	248,39
CVS 2001	2,00	695 x 445 x 85	7,00	429 752 106	264,62
CVS 2501	2,40	915 x 445 x 85	8,40	429 752 107	283,33
CVS 501 E	0,50	345 x 445 x 85	3,70	429 752 130	260,87
CVS 1001 E	1,00	415 x 445 x 85	4,80	429 752 132	289,57
CVS 1501 E	1,50	565 x 445 x 85	6,00	429 752 134	310,80
CVS 2001 E	2,00	695 x 445 x 85	7,00	429 752 136	327,02
CVS 2501 E	2,40	915 x 445 x 85	8,40	429 752 137	346,99

Discount group TT\_200

# Direct heating

## Church Pew heater KBH



## 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.



With the pew heater from TECHNOTHERM, everybody feels good!

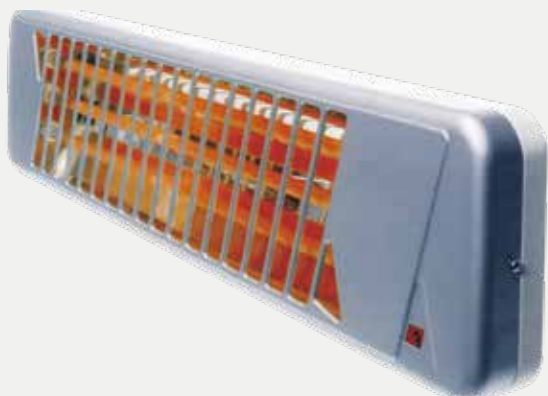


Model	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
KBH 02	0,20	730 x 155 x 155	3,80	437 000 031	498,02
KBH 04	0,40	1096 x 155 x 155	5,30	437 000 032	547,95
KBH 06	0,60	1596 x 155 x 155	7,50	437 000 033	610,36

Discount group TT\_800

# Direct heating

Quarz radiator, frost guard



## Quartz radiator Q 1201

Three 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 B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Q 1201	0,4 / 0,8 / 1,2	540 x 140 x 90	2,00	911 361 922	89,88
FW 501	0,50	240 x 240 x 105	1,00	427 000 501	55,39

Discount group TT\_200

# Direct heating

Terrace radiator Desino TS



## 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 TECHNO THERM 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.



Mounted on the stand, Desino TS heats effectively and comfortably up to 8 sqm.

Also available in white.



Video Desino TS



Desino TSI 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 TSI 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 heating



## 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 TECHNOTHERM. 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. Enjoy all year round the warm, soft and Low Glare light that really makes the difference. Wall bracket included.

## Terrassenstrahler TST

The TST heat radiator was developed for zone heating of conservatories, patios, roofed balconies, pavilions and tents, chur-ches, etc. This heater can be used in areas which are not directly exposed to weather factors. Protection class I, Assembly brackets and a 2m connection cable and a plug are included in the delivery. IP 44

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Desino TS white	1,00 / 2,00	600 x 200 x 230	5,20	620 600 201	498,02
Desino TS black	1,00 / 2,00	600 x 200 x 230	5,20	620 600 200	498,02
Foot white		520 x 520 /Height 2120	17,20	620 900 011	455,59
Foot black		520 x 520 /Height 2120	17,20	620 900 010	455,59
Remote Control		105 x 45 x 6,8	0,20	620 900 020	82,38

Discount group TT\_800

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TST 100	1,00	1080 x 140 x 45	3,30	620 600 100	595,38
TST 150	1,50	1080 x 140 x 45	4,40	620 600 190	736,41

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 4 types of these heaters.

Each of them has its own special advantage:

- **Compact and straight-lined** **Model "HR KSB"**
- **Shiny and individual** **Model "Chrome"**
- **Versatile and simple** **Model "HR"**
- **Elegant and luxurious** **Model "Design"**

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

Bath heating with **individually spot-Welded fins** 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 125).

## Bathroom radiator HR DSM

Bathroom heater with **individually spot-Welded fins**, surface white powder-coated RAL 9003, only 70 mm deep, additionally with DSM thermostat. The DSM thermostat can be controlled via DSM interface (to be ordered separately, see p. 125) over the internet with the free TECHNOTHERM APP. Separate temperatures and various time programs can be set for each room (see p. 8-9).

**IP 24**



All RAL colours are available upon request.  
Extra charge: 245,20 €



Model	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
HR 1200 RF	1,20	380 x 1240 x 70	35,00	450 112 953	1389,22
HR 1200 DSM	1,20	380 x 1240 x 70	35,00	450 112 973	1411,69

Discount group TT\_300







# Bathroom Towel Rail Heaters

## Series HR



### Towel rail HR

Solid construction, straight design, colour white RAL 9016 or black matt RAL 9005, scratch-resistant powder coating, no visible welding seams, protection class I. Heating cartridge with control panel as standard (5 different heating temperature settings in the range from 30 °C to 60 °C). An electronic temperature sensor ensures precise control. Clearly visible heat level display, incl. 2h timer. Connection cable as spiral cable 70-200 cm long with plug, 230 V AC.

**IP X5**

Model white	Power [kW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
HR 40/80	0,30	400 x 775 x 85	8,80	427 010 408	319,54
HR 40/120	0,60	400 x 1175 x 85	15,60	427 010 412	413,15
HR 40/180	1,00	400 x 1775 x 85	23,70	427 010 418	614,11
HR 50/80	0,30	500 x 775 x 85	10,80	427 010 508	334,51
HR 50/120	0,60	500 x 1175 x 85	14,50	427 010 512	440,61
HR 50/180	1,00	500 x 1775 x 85	15,00	427 010 518	640,30
HR 60/120	0,60	600 x 1175 x 85	16,20	427 010 612	466,82
HR 60/180	1,00	600 x 1775 x 85	24,70	427 010 618	666,53

Discount group TT\_300

Model black	Power [kW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
HRZ 60/80	0,40	600 x 775 x 85	11,00	427 010 108	514,55
HRZ 60/120	0,60	600 x 1175 x 85	16,20	427 010 112	566,83
HRZ 60/180	1,00	600 x 1775 x 85	24,70	427 010 118	634,93

Discount group TT\_300

# Bathroom Towel Rail Heaters



## Towel rail HR chrom

The surface is polished in a "chrome look" and is a real eye-catcher in your rooms.



## The new HR Design towel dryer

Our HR Design towel dryer is made entirely of aluminium and has a very high-quality powder coating. The lateral insertion of towels can be done from the left or from the right if desired.

A completely new manufacturing method makes it possible that despite the design, the radiator gets warm right up to the tips.



# Bathroom heating

## Series Design and "chrom"



### Towel rail Design

An attractive and modern designed electric towel rail produced from high quality aluminium. Available in a choice of 2 colours, white (RAL 9016) or black (RAL 9005), with protection class I. Control panel on the left as standard, open towel hanging from the right. Control panel on the right can also be ordered on request. Heating cartridge with control panel as standard (5 different device temperature settings in the range from 30 °C to 60 °C). An electronic temperature sensor ensures precise control. Clearly visible heat level display, incl. 2h timer. Finally, there is a 'spiral cable' that can be extended from 70cm to 200cm. 230 V AC. **IP X5**

Model white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
HRD 50/80	0,40	500 x 850 x 110	15,00	427 010 208	1098,32
HRD 50/120	0,56	500 x 1150x 110	16,50	427 010 212	1323,38
HRD 50/180	0,85	500 x 1750 x 110	20,50	427 010 218	1776,76

Discount group TT\_300

Model black	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
HRDZ 50/80	0,40	500 x 850 x 110	15,00	427 010 308	1098,32
HRDZ 50/120	0,56	500 x 1150x 110	16,50	427 010 312	1323,38
HRDZ 50/180	0,85	500 x 1750 x 110	20,50	427 010 318	1776,76

Discount group TT\_300

Model chrom	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
HRC 50/80	0,24	500 x 775 x 85	11,00	427 010 702	555,44
HRC 50/120	0,40	500 x 1175 x 85	15,00	427 010 704	629,08
HRC 50/180	0,50	500 x 1775 x 85	22,00	427 010 705	801,33
HRC 60/120	0,40	600 x 1175 x 85	16,20	427 010 714	666,53
HRC 60/180	0,60	600 x 1775 x 85	24,70	427 010 716	856,25
HRC 75/80	0,35	755 x 775 x 85	15,00	427 010 733	622,84
HRC 75/120	0,50	755 x 1175 x 85	23,00	427 010 735	755,15
HRC 75/180	0,70	755 x 1775 x 85	28,00	427 010 737	1001,04

Discount group TT\_300

### 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. Connection cable as spiral cable 70-200 cm long with plug, 230 V AC.

**IP X5**

# INFRARED PANEL HEATERS

FUNCTIONALITY MEETS **AESTHETICS!**

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

These infrared panel 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 heaters unites the functionality of a modern electrical heater (cosy warmth at low cost) and a special design.

The infrared panel heaters from TECHNO THERM is available in 4 different versions:

- **Modern metal look**
- **Exclusive glass design**
- **High quality mirror glass**
- **Expressive motifs**





# 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 with an aesthetically balanced appearance emphasizes that special ambience in your rooms.



All RAL colours are available on request. Surcharge 172,65 €

All frameless ISP are also available in the following RAL colours. For anthracite dark and light. Delivery time 2-3 weeks. White in stock.



**RAL 9003**

**Anthracite light**  
Effekt-Matt

**Anthracite dark**  
Effekt-Matt

**RAL 9005**



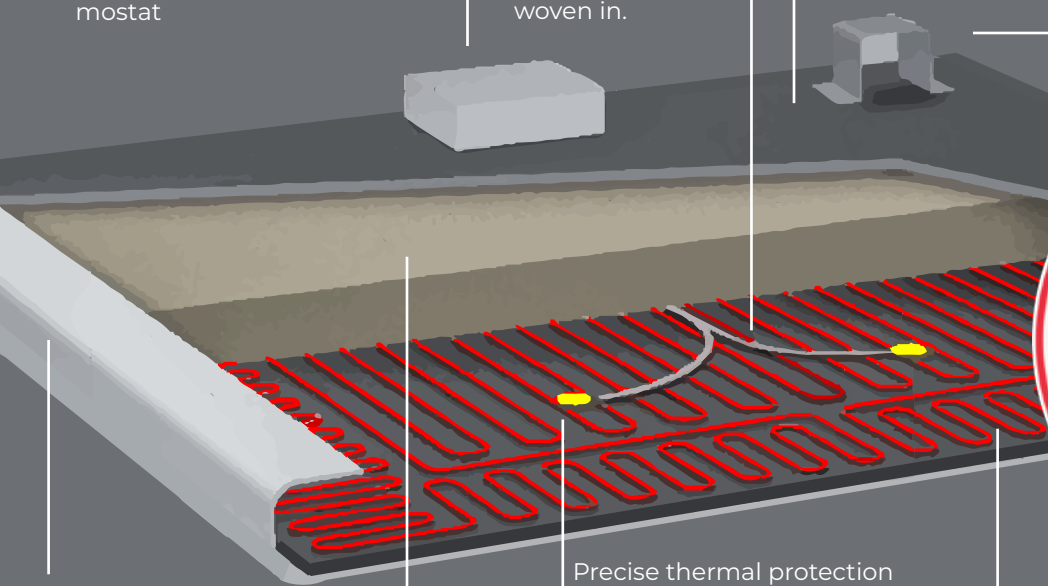
Schematische Darstellung

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

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

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.

Precise thermal protection through sensors in two zones.

High-quality insulation ensures that 90% of the heat radiation goes to the front of the panel.

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

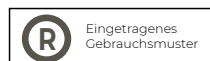


RAL 9003 (W)



Anthracite light (G)  
Effekt-Matt

## ISP (height 600 mm)



Powder-coated front panel, frameless, wall distance 33 mm, connecting cable 1.5 m with plug. Suitable for **wall and ceiling mounting** (see p. 114), order additional ceiling bracket separately. A thermostat required for operation must be ordered separately.

Model white	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-W 350	0,40	600 x 600 x 15	6,80	880 100 350	370,71
ISP-W 450	0,50	900 x 600 x 15	10,60	880 100 450	415,65
ISP-W 750	0,80	1200 x 600 x 15	12,80	880 100 750	574,16
ISP-W 950	1,00	1500 x 600 x 15	17,10	880 100 950	716,46
ISP-W 1200	1,25	1800 x 600 x 15	20,30	880 100 120	881,21
ISP-W 350 RF	0,40	600 x 600 x 15	7,00	880 101 350	425,62
ISP-W 450 RF	0,50	900 x 600 x 15	10,80	880 101 450	470,56
ISP-W 750 RF	0,80	1200 x 600 x 15	13,00	880 101 750	626,59
ISP-W 950 RF	1,00	1500 x 600 x 15	17,30	880 101 950	770,12
ISP-W 1200 RF	1,25	1800 x 600 x 15	20,50	880 101 120	933,63

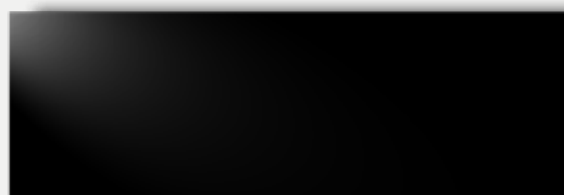
Discount group TT\_200

Model anthracite light	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-G 350	0,40	600 x 600 x 15	6,80	880 300 351	494,27
ISP-G 450	0,50	900 x 600 x 15	10,60	880 300 451	540,46
ISP-G 750	0,80	1200 x 600 x 15	12,80	880 300 751	696,48
ISP-G 950	1,00	1500 x 600 x 15	17,10	880 300 951	841,27
ISP-G 1200	1,25	1800 x 600 x 15	20,30	880 300 121	1003,54
ISP-G 350 RF	0,40	600 x 600 x 15	7,00	880 301 351	549,2
ISP-G 450 RF	0,50	900 x 600 x 15	10,80	880 301 451	594,13
ISP-G 750 RF	0,80	1200 x 600 x 15	13,00	880 301 751	751,40
ISP-G 950 RF	1,00	1500 x 600 x 15	17,30	880 301 951	893,69
ISP-G 1200 RF	1,25	1800 x 600 x 15	20,50	880 301 121	1057,20

Discount group TT\_200

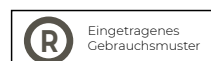


Anthrazit dunkel (Z)  
Effekt-Matt



RAL 9005 (B)

## ISP RF (high 600 mm)



Powder-coated front panel,, but with **built-in radio receiver** for control with an external thermostat e.g. TPF-ECO (exclusive) and our TY-DOM APP. The TPF-ECO or TBF thermostat must be ordered separately for all RF models (see page 125). For wall and ceiling mounting (see page 128).

Model anthracite dark	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-Z 350	0,40	600 x 600 x 15	6,80	880 300 350	494,27
ISP-Z 450	0,50	900 x 600 x 15	10,60	880 300 450	540,46
ISP-Z 750	0,80	1200 x 600 x 15	12,80	880 300 750	696,48
ISP-Z 950	1,00	1500 x 600 x 15	17,10	880 300 950	841,27
ISP-Z 1200	1,25	1800 x 600 x 15	20,30	880 300 120	1003,54
ISP-Z 350 RF	0,40	600 x 600 x 15	7,00	880 301 350	549,20
ISP-Z 450 RF	0,50	900 x 600 x 15	10,80	880 301 450	594,13
ISP-Z 750 RF	0,80	1200 x 600 x 15	13,00	880 301 750	751,40
ISP-Z 950 RF	1,00	1500 x 600 x 15	17,30	880 301 950	893,69
ISP-Z 1200 RF	1,25	1800 x 600 x 15	20,50	880 301 120	1057,20

Discount group TT\_200

Model black	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-B 350	0,40	600 x 600 x 15	6,80	880 100 351	370,71
ISP-B 450	0,50	900 x 600 x 15	10,60	880 100 451	415,65
ISP-B 750	0,80	1200 x 600 x 15	12,80	880 100 751	574,16
ISP-B 950	1,00	1500 x 600 x 15	17,10	880 100 951	716,46
ISP-B 1200	1,25	1800 x 600 x 15	20,30	880 100 121	881,21
ISP-B 350 RF	0,40	600 x 600 x 15	7,00	880 101 351	425,62
ISP-B 450 RF	0,50	900 x 600 x 15	10,80	880 101 451	470,56
ISP-B 750 RF	0,80	1200 x 600 x 15	13,00	880 101 751	626,59
ISP-B 950 RF	1,00	1500 x 600 x 15	17,30	880 101 951	770,12
ISP-B 1200 RF	1,25	1800 x 600 x 15	20,50	880 101 121	933,63

Discount group TT\_200

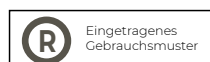
# Infrared panel

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 128). Order ceiling bracket separately. A thermostat required for operation must be ordered separately.



Model white	Power [kW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-W 35I	0,40	900 x 400 x 15	6,80	880 110 350	355,73
ISP-W 50I	0,50	1200 x 400 x 15	8,80	880 110 500	500,52
ISP-W 65I	0,67	1500 x 400 x 15	10,80	880 110 650	636,57
ISP-W 85I	0,82	1800 x 400 x 15	12,80	880 110 850	827,54

Discount group TT\_200

Model anthracite light	Power [kW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-G 35I	0,40	900 x 400 x 15	6,80	880 310 351	410,65
ISP-G 50I	0,50	1200 x 400 x 15	8,80	880 310 501	552,94
ISP-G 65I	0,67	1500 x 400 x 15	10,80	880 310 651	690,24
ISP-G 85I	0,82	1800 x 400 x 15	12,80	880 310 851	881,21

Discount group TT\_200

Model anthracite dark	Power [kW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-Z 35I	0,40	900 x 400 x 15	6,80	880 310 350	479,30
ISP-Z 50I	0,50	1200 x 400 x 15	8,80	880 310 500	624,08
ISP-Z 65I	0,67	1500 x 400 x 15	10,80	880 310 650	760,14
ISP-Z 85I	0,82	1800 x 400 x 15	12,80	880 310 850	951,11

Discount group TT\_200

Model black	Power [kW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-B 35I	0,40	900 x 400 x 15	6,80	880 110 351	355,73
ISP-B 50I	0,50	1200 x 400 x 15	8,80	880 110 501	500,52
ISP-B 65I	0,67	1500 x 400 x 15	10,80	880 110 651	636,57
ISP-B 85I	0,82	1800 x 400 x 15	12,80	880 110 851	827,54

Discount group TT\_200



Anthrazit dunkel (Z)  
Effekt-Matt



RAL 9005 (B)

## ISP RF (height 400 mm)

Powder-coated front panel,, but with **built-in radio receiver** for control with an external thermostat e.g. TPF-ECO (exclusive) and our TY-DOM APP. The TPF-ECO or TBF thermostat must be ordered separately for all RF models (see page 125). For wall and ceiling mounting (see page 128).



Model white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-W 351 RF	0,40	900 x 400 x 15	7,00	880 111 350	410,65
ISP-W 501 RF	0,50	1200 x 400 x 15	9,00	880 111 500	552,94
ISP-W 651 RF	0,67	1500 x 400 x 15	11,00	880 111 650	690,24
ISP-W 851 RF	0,82	1800 x 400 x 15	13,00	880 111 850	881,21

Discount group TT\_200

Model anthracite light	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-G 351 RF	0,40	900 x 400 x 15	7,00	880 311 351	534,22
ISP-G 501 RF	0,50	1200 x 400 x 15	9,00	880 311 501	676,51
ISP-G 651 RF	0,67	1500 x 400 x 15	11,00	880 311 651	813,81
ISP-G 851 RF	0,82	1800 x 400 x 15	13,00	880 311 851	1004,78

Discount group TT\_200

Model anthracite dark	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-Z 351 RF	0,40	900 x 400 x 15	7,00	880 311 350	534,22
ISP-Z 501 RF	0,50	1200 x 400 x 15	9,00	880 311 500	676,51
ISP-Z 651 RF	0,67	1500 x 400 x 15	11,00	880 311 650	813,81
ISP-Z 851 RF	0,82	1800 x 400 x 15	13,00	880 311 850	1004,78

Discount group TT\_200

Model black	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-B 351 RF	0,40	900 x 400 x 15	7,00	880 111 351	410,65
ISP-B 501 RF	0,50	1200 x 400 x 15	9,00	880 111 501	552,94
ISP-B 651 RF	0,67	1500 x 400 x 15	11,00	880 111 651	690,24
ISP-B 851 RF	0,82	1800 x 400 x 15	13,00	880 111 851	881,21

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.**





more heating power through improved heating mat  
**10%**  
heating mat

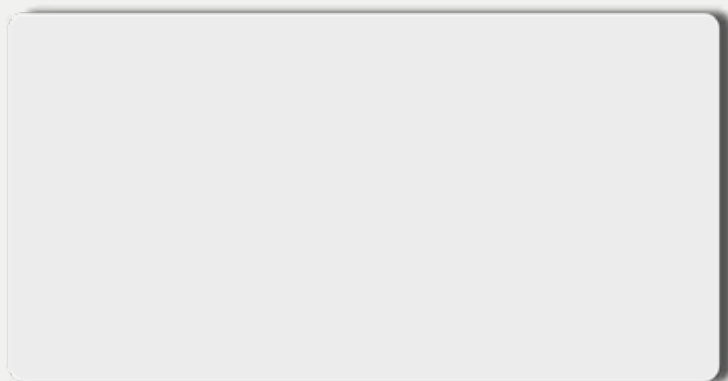


Infrared Heating



# Infrared panel

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



## ISP Design white (height 690 mm)

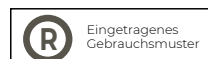
**Elegant front made of high-quality, polished white glass**, with rounded edges, frameless design, wall distance 33 mm. Can only be used in conjunction with external weekday control (see p. 125). Connection cable 1.5 m with plug.

**Only suitable for wall mounting!**

## ISP Design white RF (height 690 mm)

**Elegant front made of high-quality, polished white glass**, with rounded edges, frameless design, wall distance 33 mm. With built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP.

**The TPF-ECO or TBF thermostat must be ordered separately for all RF models (see page 125). Only suitable for wall mounting!**



Model	Power [kW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-W 450	0,50	1030 x 690 x 20	17,60	880 100 453	956,10
Design-W 750	0,80	1330 x 690 x 20	21,80	880 100 753	1260,66
Design-W 950	1,00	1630 x 690 x 20	28,10	880 100 953	1329,31

Discount group TT\_200

Model	Power [kW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-W 450 RF	0,50	1030 x 690 x 20	17,60	880 101 453	997,29
Design-W 750 RF	0,80	1330 x 690 x 20	21,80	880 101 753	1314,33
Design-W 950 RF	1,00	1630 x 690 x 20	28,10	880 101 953	1380,48

Discount group TT\_200



# Infrared panel

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



## ISP Design black (height 690 mm)

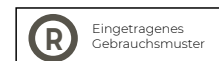
Elegant front made of high-quality, polished black glass, with rounded edges, frameless design, wall distance 33 mm. Can only be used in conjunction with external weekday control (see p. 125). Connection cable 1.5 m with plug.

**Only suitable for wall mounting!**

## ISP Design RF black (height 690 mm)

Elegant front made of high-quality, polished black glass, with rounded edges, frameless design, wall distance 33 mm. With built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP.

**The TPF-ECO or TBF thermostat must be ordered separately for all RF models (see page 125). Only suitable for wall mounting!**



Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-B 450	0,50	1030 x 690 x 20	17,60	880 100 454	956,10
Design-B 750	0,80	1330 x 690 x 20	21,80	880 100 754	1260,66
Design-B 950	1,00	1630 x 690 x 20	28,10	880 100 954	1329,31

Discount group TT\_200

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-B 450 RF	0,50	1030 x 690 x 20	17,60	880 101 454	997,29
Design-B 750 RF	0,80	1330 x 690 x 20	21,80	880 101 754	1314,33
Design-B 950 RF	1,00	1630 x 690 x 20	28,10	880 101 954	1380,48

Discount group TT\_200

# Infrared panel

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



## ISP Design black (height 454 mm)

Elegant front made of high-quality, polished black glass, with rounded edges, frameless design, wall distance 33 mm. Can only be used in conjunction with external weekday control (see p. 125). Connection cable 1.5 m with plug. **Only suitable for wall mounting!**

## ISP Design black RF (height 454 mm)

Elegant front made of high-quality, polished black glass, with rounded edges, frameless design, wall distance 33 mm. With built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP.

**The TPF-ECO or TBF thermostat must be ordered separately for all RF models (see page 125). Only suitable for wall mounting!**

## ISP Design white (height 454 mm)

Elegant front made of high-quality, polished white glass, with rounded edges, frameless design, wall distance 33 mm. Can only be used in conjunction with external weekday control (see p. 125). Connection cable 1.5 m with plug. **Only suitable for wall mounting!**

## ISP Design RF white (height 454 mm)

Elegant front made of high-quality, polished white glass, with rounded edges, frameless design, wall distance 33 mm. With built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP.

**The TPF-ECO or TBF thermostat must be ordered separately for all RF models (see page 125). Only suitable for wall mounting!**

Model black	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-B 351	0,35	1055 x 454 x 20	11,80	880 110 354	705,22
Design-B 501	0,50	1355 x 454 x 20	14,80	880 110 504	1208,24
Design-B 351 RF	0,35	1055 x 454 x 20	12,00	880 111 354	746,41
Design-B 501 RF	0,50	1355 x 454 x 20	15,00	880 111 504	1258,17

Discount group TT\_200

Model white	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-W 351	0,35	1055 x 454 x 20	11,80	880 110 353	705,22
Design-W 501	0,50	1355 x 454 x 20	14,80	880 110 503	1208,24
Design-W 351 RF	0,35	1055 x 454 x 20	12,00	880 111 353	746,41
Design-W 501 RF	0,50	1355 x 454 x 20	15,00	880 111 503	1258,17

Discount group TT\_200





# Infrared panel

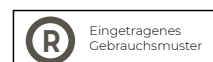
## Series mirror



### ISP mirror (height 650 mm)

**Elegante 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 or TBF thermostat must be ordered separately for all RF models (see page 125).**



Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-S 350	0,40	650 x 650 x 20	12,80	880 100 357	708,96
Design-S 600	0,60	950 x 650 x 20	16,00	880 100 657	816,62
Design-S 750	0,80	1250 x 650 x 20	21,80	880 100 757	1160,80
Design-S 1000	1,00	1550 x 650 x 20	25,00	880 100 157	1345,50

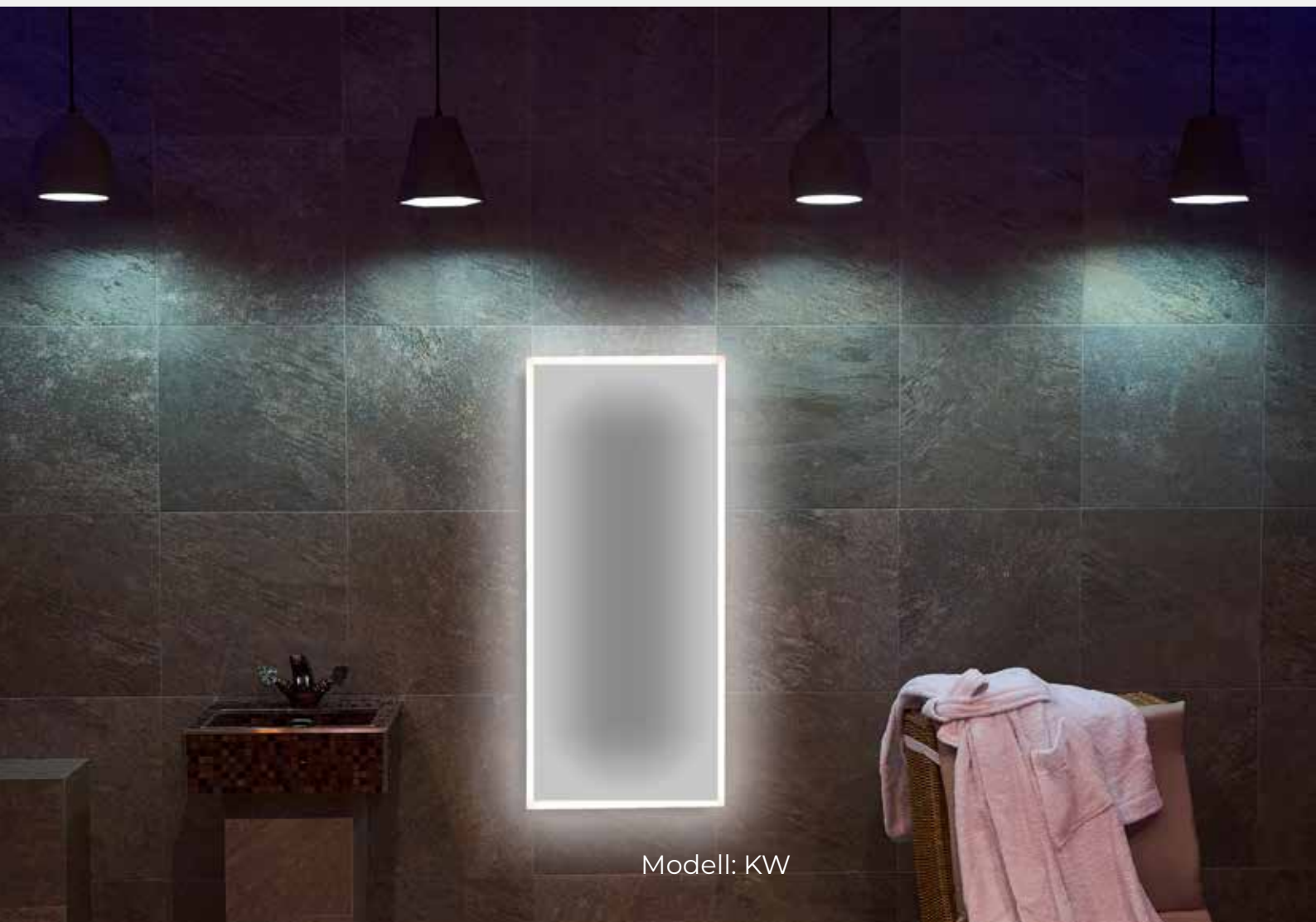
Rabattgruppe TT\_200

Model RF	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-S 350 RF	0,40	650 x 650 x 20	13,00	880 101 357	750,16
Design-S 600 RF	0,60	950 x 650 x 20	16,20	880 101 657	871,47
Design-S 750 RF	0,80	1250 x 650 x 20	22,00	880 101 757	1203,24
Design-S 1000 RF	1,00	1550 x 650 x 20	25,20	880 101 157	1400,36

Rabattgruppe TT\_200

# Infrared radiation panel LED

Series **ISP LED** • Front white • with three types of illumination



Modell: KW



**Discover the perfection of heat and light: infrared heating with LED light frame.**

Give your rooms a new dimension of comfort and elegance with our latest innovation - infrared heating with high quality LED light frame. Designed for wall and ceiling mounting, it combines advanced heating technology with impressive lighting to create an atmosphere of excellence.

Suitable for any environment

Whether at home, in the office or in business - the infrared heater with LED light frame fits seamlessly into any interior and creates an elegant, modern atmosphere.



Modell: WW



Modell: KW



### **Efficient heat source, stunning lighting.**

Our infrared heater with LED light frame is not only a source of heat, but also a visual masterpiece. The powerful heating technology provides pleasant warmth, while the high-quality LED light frame with remote control conjures up impressive lighting in your rooms.

Versatile mounting options: Wall and ceiling.

Whether on the wall or on the ceiling, the flexible mounting option allows you to choose the ideal location for your infrared heater with LED light frame, ensuring optimal heat and light distribution.

High quality LED light frame: Stylish and functional.



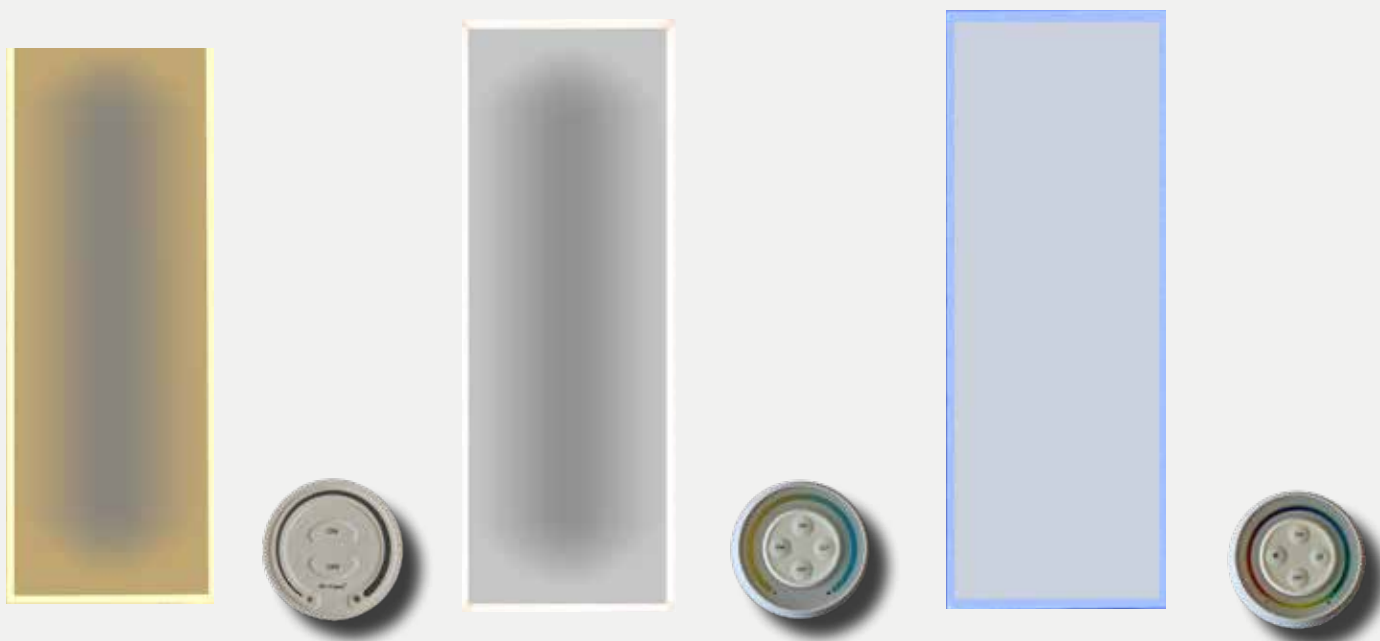
The integrated LED light frame is more than just lighting. It also serves as a stylish decorative element that enhances the ambience of your rooms. With the included remote control, you can adjust the lighting mood to your liking.



The high-quality light frame, produced in Germany, can be adjusted with the attached remote control to any colour according to the RGB LED illuminant. This creates a harmonious atmosphere on the wall or ceiling and very different mood images can be created.

For selection, in addition to the variety of colours, there is also a "cold white", and "warm white" light. Depending on the desire.





### ISP LED Warm white

### ISP LED Warm white/cool white

### ISP LED RGB-W

Elegant front, white powder-coated RAL 9016 finish, with high-quality LED light frame with power supply unit (separate socket connection required) and remote control for light control. A radio receiver and a radio thermostat transmitter (see pages 125-126) must be ordered separately for temperature control in this range. Discover the fusion of heat and light in a product that combines innovation and design at the highest level. Bring elegance and comfort into your home or business

#### Light frame in 3 different model series:

WW	Warm white, light colour 2400K, dimmable
WW/KW	Warm white / cool white, light colour 2400K - 6200K, selectable and dimmable
RGB-W	Warm white (light colour 2700K) or colours selectable and dimmable

Model Warm white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-LED Deluxe 360 WW	0,36	650 x 650 x 18	9,00	880 400 360	925,28
ISP-LED Deluxe 540 WW	0,54	950 x 650 x 18	13,00	880 400 540	1065,27
ISP-LED Deluxe 720 WW	0,72	1250 x 650 x 18	16,00	880 400 720	1278,44
ISP-LED Deluxe 900 WW	0,90	1550 x 650 x 18	22,00	880 400 900	1499,66

Discount group TT\_200

Model Warm white / cool white	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-LED Deluxe 360 WW/KW	0,36	650 x 650 x 18	9,00	880 410 360	1054,65
ISP-LED Deluxe 540 WW/KW	0,54	950 x 650 x 18	13,00	880 410 540	1194,65
ISP-LED Deluxe 720 WW/KW	0,72	1250 x 650 x 18	16,00	880 410 720	1407,82
ISP-LED Deluxe 900 WW/KW	0,90	1550 x 650 x 18	22,00	880 410 900	1629,04

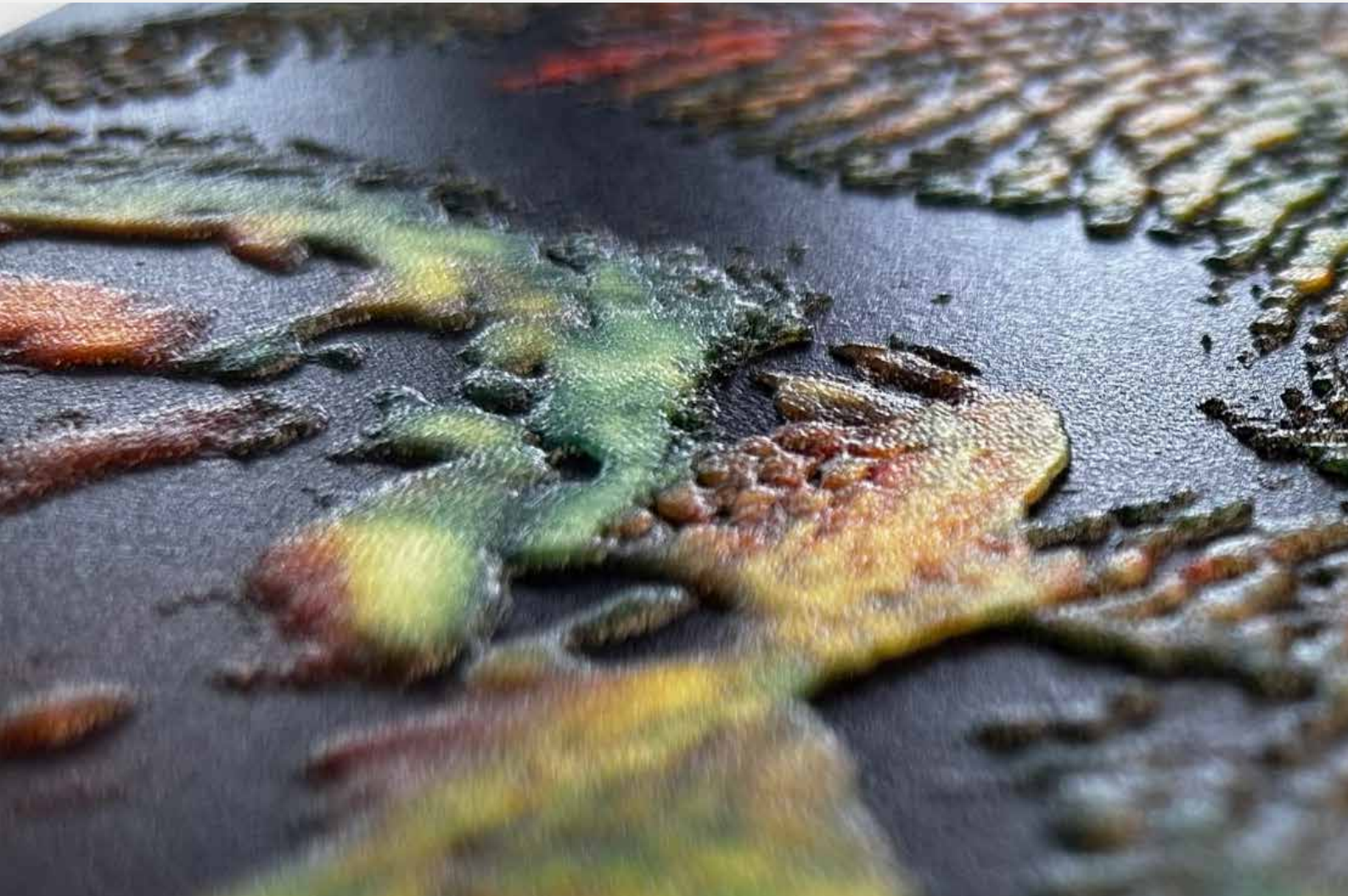
Discount group TT\_200

Model RGB-W	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-LED Deluxe 360 RGB-W	0,36	650 x 650 x 18	9,00	880 420 360	1054,65
ISP-LED Deluxe 540 RGB-W	0,54	950 x 650 x 18	13,00	880 420 540	1194,65
ISP-LED Deluxe 720 RGB-W	0,72	1250 x 650 x 18	16,00	880 420 720	1407,82
ISP-LED Deluxe 900 RGB-W	0,90	1550 x 650 x 18	22,00	880 420 900	1629,04

Discount group TT\_200

# Infrared Radiation Panel Deluxe 2.5D Printing

Series **ISP** • Front with haptic 2.5D print



**Ingenuity** - Up to 17 layers can be printed on top of each other on your infrared heater to create relief. This allows us to offer you a broader product portfolio. Realistic textures, such as wood grains, haptic artwork or protruding images can be created. Our UV inks used also have the coveted GREENGUARD GOLD certification, among others, uses strict testing criteria, and additionally takes into account safety factors that ensure the product in question can be used in schools, healthcare facilities, and similar sensitive environments. This is intended to improve air quality in the spaces, including educational and healthcare facilities, where these products are used.

You can easily choose a design from our library or have your own personal image printed on your infrared heater. When choosing, please pay attention to portrait or landscape motifs. Not every image can be printed completely due to the different dimensions. Depending on the format, we will only print sections.



# Not quite 3D - but almost!



For printing your own motif we need an image with an appropriate resolution, i.e. size.

A table with these required values can be found in the accessories section on page 93.



Detail view of the surface

## ISP 2.5D

Front panel printed with motif in 2.5D - technique

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-Deluxe-WM 2,5D 540	0,54	900 x 600 x 18	10,60	880 250 540	1033,97
ISP-Deluxe-WM 2,5D 720	0,72	1200 x 600 x 18	12,80	880 250 720	1086,75
ISP-Deluxe-WM 2,5D 900	0,90	1500 x 600 x 18	17,10	880 250 900	1190,25

Discount group TT\_200

The RF model series has a built-in radio receiver for control with an external radio thermostat, e.g. TPF-ECO (exclusive). For control via the Internet, you also need the ECO interface (see p. 12-13). The radio thermostats must be ordered separately for all RF models.

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-Deluxe-WM 2,5D 540 RF	0,54	900 x 600 x 18	10,80	880 251 540	1093,48
ISP-Deluxe-WM 2,5D 720 RF	0,72	1200 x 600 x 18	13,00	880 251 720	1146,26
ISP-Deluxe-WM 2,5D 900 RF	0,90	1500 x 600 x 18	17,30	880 251 900	1249,76


Discount group TT\_200

# Feet and rollers for infrared heating



The feet allow you to move your infrared heater to the ideal position and enjoy the pleasant warmth.

Suitable for all ISP devices, except ISP Design. For further information, see page 129.

The easy-to-attach castors make it very easy to move your infrared heater to the required position. 



Model	Size of the heater [mm]	Image resolution	Minimum image size B x H [px]
SHP	750 x 500	200 dpi	5900 x 3900
SPH	1500 x 500	200 dpi	11800 x 3900
ISP	600 x 600	200 dpi	4700 x 4700
ISP	900 x 600	200 dpi	7000 x 4700
ISP	1200 x 600	200 dpi	9500 x 4700
ISP	1500 x 600	200 dpi	11800 x 4700
ISP	1800 x 600	200 dpi	14100 x 4700
ISP	900 x 400	200 dpi	7100 x 3200
ISP	1200 x 400	200 dpi	9500 x 3200
ISP	1500 x 400	200 dpi	11800 x 3200
ISP	1800 x 400	200 dpi	14100 x 3200



## Image resolution table for printing on your heater

These values mentioned in the table are approximate values. We check the printability for each image.

# Infrared panel TH

Series ISP . Desk heater



## ISP Desk heater

This under-desk heating panel is designed for mounting under the desk top or for wall mounting. With connection cable (protective contact plug) of 1.5 m. The infrared heating reaches a maximum surface temperature of approx. 60°C. This ensures protection against burns.



▲ Never again cold feet at the desk. Elegant and flat. Easy to assemble and 60°C maximum surface temperature.



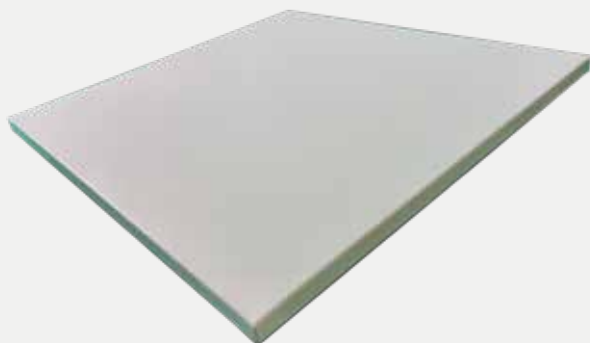
◀ Fast, pinpoint heat.  
Pleasant radiant heat.  
Comfortable working atmosphere.  
Invisible under the table. ▶



Model	Power [W]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-TH 100	90	650 x 265x25	4,00	880 100 100	256,16

# Infrared panel

Infrared panel for integrated ceiling



## ISP for integrated ceiling

Heating plate for insertion into ceiling cassette 600 x 600 mm (ISP-DK 400), 625 x 625 mm (ISP-DK 401), or 1200 x 600 mm (ISP-DK 800), in living rooms and offices, Colour: white, connecting cable 1.5 m with plug.

Alternatively with built-in radio receiver for control with an external radio thermostat e.g. TPF-ECO. For control via the Internet you also need the ECO interface, range in the building approx. 30 m (depending on type), radio frequency 868 MHz, (standard EN 300 200), for ECO interface (see p. 12-13).

**The radio thermostats TPF-ECO or TBF must be ordered separately for all RF models (see p. 125).**



Model 450	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-DK 400	0,40	595 x 595 x 30	6,80	880 120 350	419,39
ISP-DK 401	0,40	618 x 618 x 30	7,00	880 120 360	419,39
ISP-DK 800	0,80	1190 x 595 x 30	13,00	880 120 600	594,13
ISP-DK 400 RF	0,40	595 x 595 x 30	7,00	880 121 350	463,07
ISP-DK 401 RF	0,40	618 x 618 x 30	7,20	880 121 360	463,07
ISP-DK 800 RF	0,80	1190 x 595 x 30	13,20	880 121600	636,57

# 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 with motifs

Series **ISP** • with motifs • 600 mm



MG = Grain (Korn)



MB = Beach (Strand)

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

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

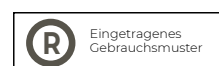
**Suitable for wall and ceiling mounting** (see page 128). Order ceiling bracket separately.

**A thermostat required for operation must be ordered separately.**

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

Printed front panel, powder-coated, with plug, frameless design, wall distance 33 mm. With built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP.

**The TPF-ECO or TBF thermostat must be ordered separately for all RF models (see page 125). Suitable for wall and ceiling mounting** (see page 128). Order ceiling bracket separately.



Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-MG 750	0,80	1200 x 600 x 18	12,80	880 220 750	921,15
ISP-MG 950	1,00	1500 x 600 x 18	17,10	880 220 950	1009,13
ISP-MG 750 RF	0,80	1200 x 600 x 18	13,00	880 221 750	980,66
ISP-MG 950 RF	1,00	1500 x 600 x 18	17,30	880 221 950	1068,64

Discount group TT\_200

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-MB 750	0,80	1200 x 600 x 18	12,80	880 230 750	921,15
ISP-MB 950	1,00	1500 x 600 x 18	17,10	880 230 950	1009,13
ISP-MB 750 RF	0,80	1200 x 600 x 18	13,00	880 231 750	980,66
ISP-MB 950 RF	1,00	1500 x 600 x 18	17,30	880 231 950	1068,64

Discount group TT\_200

# Infrared panel

Series **ISP** • with motifs • 600 mm



C = City (Stadt)



M = Meadow (Gras)

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

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

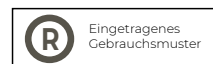
**Suitable for wall and ceiling mounting** (see page 128). Order ceiling bracket separately.

**A thermostat required for operation must be ordered separately.**

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

Printed front panel, powder-coated, with plug, frameless design, wall distance 33 mm. With built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP.

**The TPF-ECO or TBF thermostat must be ordered separately for all RF models (see page 125). Suitable for wall and ceiling mounting** (see page 128). Order ceiling bracket separately.



Model	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-MC 750	0,80	1200 x 600 x 18	12,80	880 200 750	921,15
ISP-MC 950	1,00	1500 x 600 x 18	17,10	880 200 950	1009,13
ISP-MC 750 RF	0,80	1200 x 600 x 18	13,00	880 201 750	980,66
ISP-MC 950 RF	1,00	1500 x 600 x 18	17,30	880 201 950	1068,64

Discount group TT\_200

Model	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-MM 750	0,80	1200 x 600 x 18	12,80	880 210 750	921,15
ISP-MM 950	1,00	1500 x 600 x 18	17,10	880 210 950	1009,13
ISP-MM 750 RF	0,80	1200 x 600 x 18	13,00	880 211 750	980,66
ISP-MM 950 RF	1,00	1500 x 600 x 18	17,30	880 211 950	1068,64

Discount group TT\_200



# SERIES ISP

WITH ART PRINTING FROM **INTERNATIONAL ARTIST**



Sönke Lucht is at home in abstract painting. An ostentation of 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 then by the painting itself. It is a dialogue with the picture. You can select some of these art motifs and have them printed on your infrared heater. You can find more art motifs on the website below. Scan the QR code with your mobile device. A visit is always worthwhile.

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 Art Line:** There are many motifs - by Sönke Lucht.  
Or choose your personal motif for our infrared radiation panels!

Delivery time about 2-4 weeks

# Infrared Art-Line, with art print or own motive

# SERIES ISP

Art print



Ⓔ



Ⓕ



## ISP Umbrella (height 600 mm)

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

**Suitable for wall and ceiling mounting** (see page 128). Order ceiling bracket separately.

**A thermostat required for operation must be ordered separately.**

All infrared heaters are also available as a version with radio receiver (RF).

Delivery time approx. 2-4 weeks - other models on request!

Model 450	Power [kW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-AL A 450	0,50	900 x 600 x 18	10,60	880 240 001	864,23
ISP-AL E 450	0,50	900 x 600 x 18	10,60	880 340 011	864,23
ISP-AL F 450	0,50	900 x 600 x 18	10,60	880 350 012	864,23
ISP-AL G 450	0,50	900 x 600 x 18	10,60	880 360 013	864,23

Discount group TT\_200

Model 450 RF	Power [kW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-AL A 450 RF	0,50	900 x 600 x 18	10,80	880 241 001	923,74
ISP-AL E 450 RF	0,50	900 x 600 x 18	10,80	880 341 011	923,74
ISP-AL F 450 RF	0,50	900 x 600 x 18	10,80	880 351 012	923,74
ISP-AL G 450 RF	0,50	900 x 600 x 18	10,80	880 361 013	923,74

Discount group TT\_200

Model 750	Power [kW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-AL A 750	0,80	1200 x 600 x 18	12,80	880 240 101	921,15
ISP-AL E 750	0,80	1200 x 600 x 18	12,80	880 340 111	921,15
ISP-AL F 750	0,80	1200 x 600 x 18	12,80	880 350 112	921,15
ISP-AL G 750	0,80	1200 x 600 x 18	12,80	880 360 113	921,15

Discount group TT\_200

## ISP RF Tree (height 600 mm)

Printed front panel, powder-coated, with plug, frameless, wall distance 33 mm. frameless design, wall distance 33 mm. With built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP.

**The TPF-ECO or TBF thermostat must be ordered separately for all RF models (see page 125). Suitable for wall and ceiling mounting** (see page 128). Order ceiling bracket separately.

# Infrared radiation panel

Series ISP with art print or own motive



(A)



(G)

## ISP Sphere (height 600 mm)

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

**Suitable for wall and ceiling mounting** (see page 128). Order ceiling bracket separately.

**A thermostat required for operation must be ordered separately.**

All infrared heaters are also available as a version with radio receiver (RF).

Delivery time approx. 2-4 weeks - other models on request!

Model 750 RF	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-ALA 750 RF	0,80	1200 x 600 x 18	13,00	880 241 101	980,66
ISP-AL E 750 RF	0,80	1200 x 600 x 18	13,00	880 341 111	980,66
ISP-AL F 750 RF	0,80	1200 x 600 x 18	13,00	880 351 112	980,66
ISP-AL G 750 RF	0,80	1200 x 600 x 18	13,00	880 361 113	980,66

Discount group TT\_200

Model 950	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-AL A 950	1,00	1500 x 600 x 18	17,20	880 240 201	1009,13
ISP-AL E 950	1,00	1500 x 600 x 18	17,20	880 340 211	1009,13
ISP-AL F 950	1,00	1500 x 600 x 18	17,20	880 350 212	1009,13
ISP-AL G 950	1,00	1500 x 600 x 18	17,20	880 360 213	1009,13

Discount group TT\_200

Model 950 RF	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-ALA 950 RF	1,00	1500 x 600 x 18	17,40	880 241 201	1068,64
ISP-AL E 950 RF	1,00	1500 x 600 x 18	17,40	880 341 211	1068,64
ISP-AL F 950 RF	1,00	1500 x 600 x 18	17,40	880 351 212	1068,64
ISP-AL-G 950 RF	1,00	1500 x 600 x 18	17,40	880 361 213	1068,64

Discount group TT\_200

# Series ISP OWN Motif



## ISP own motif (Height 600 mm)

Printed front panel, powder-coated, with plug, frameless, wall distance 33 mm. Can only be used in conjunction with external weekday control (see p. 125). Connection cable 1.5 m with plug. Suitable for wall and ceiling mounting (see p. 114).

All infrared heaters are also available as version with radio receiver (RF).

Please send us your desired motif in high-resolution quality. The quality of your image should be at least 300dpi. We will also be happy to check your motif in advance for its printability.

Delivery time approx. 2-4 weeks - other models on request!

Model own motif	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-WM 450 Wunschmotiv	0,50	900 x 600 x 18	10,60	880 100 999	864,23
ISP-WM 750 Wunschmotiv	0,80	1200 x 600 x 18	12,80	880 110 999	921,15
ISP-WM 950 Wunschmotiv	1,00	1500 x 600 x 18	17,20	880 120 999	1009,13

Discount group TT\_200

Model own motif	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-WM 450 RF Wunschmotiv	0,50	900 x 600 x 18	10,80	880 101 999	923,74
ISP-WM 750 RF Wunschmotiv	0,80	1200 x 600 x 18	13,00	880 111 999	980,66
ISP-WM 950 RF Wunschmotiv	1,00	1500 x 600 x 18	17,40	880 121 999	1068,64

Discount group TT\_200



# Infrared panel



# UNDER-FLOOR HEATING

THE GOOD HEAT 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 thermostat**

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

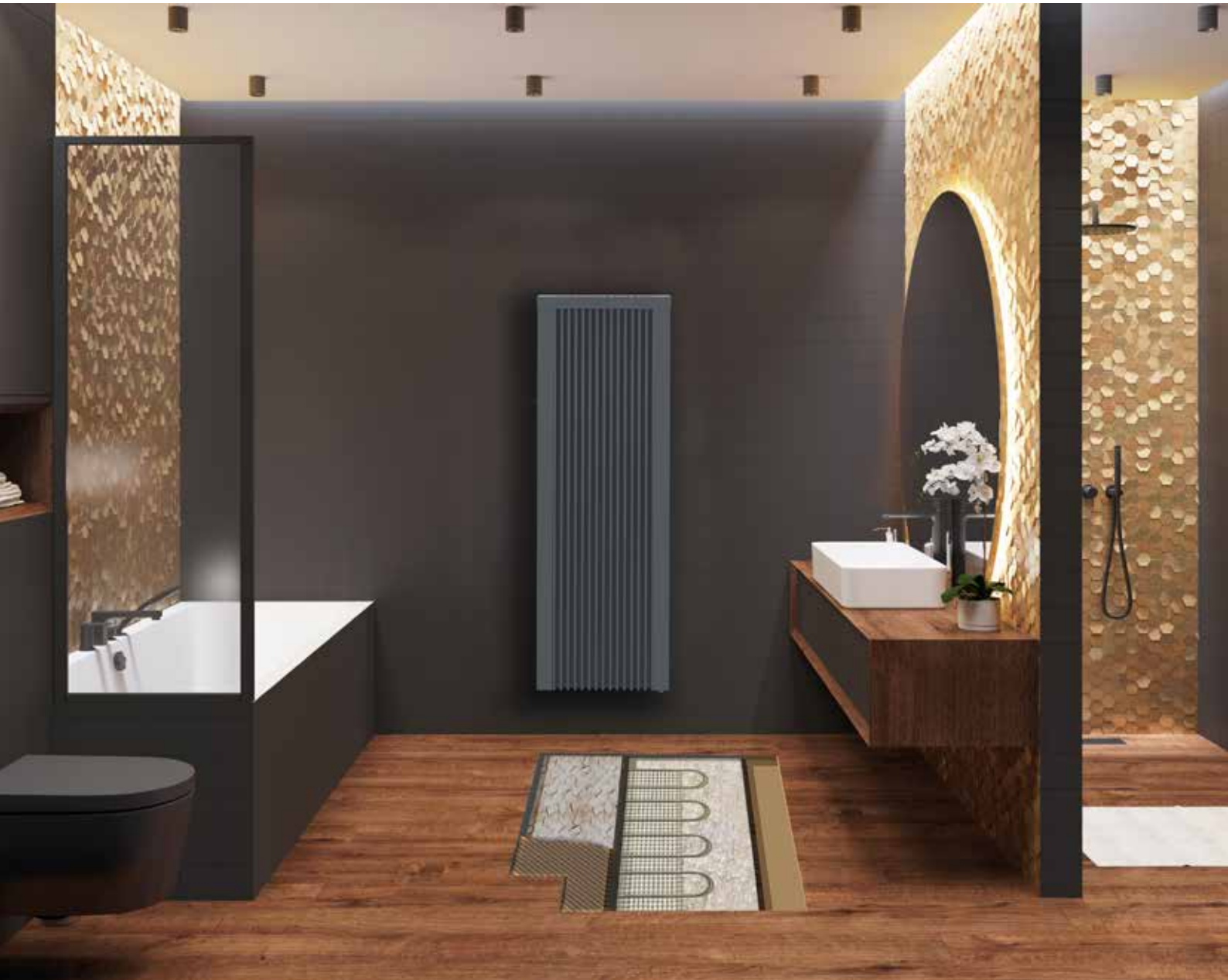


**They cannot be seen but you can feel the warmth!**

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 heating

## Heating mat Warm-Floor WFK



### Heating mat WFK 160 W/m<sup>2</sup>

**The floor heating for quick heating and continuous warm keeping of your floor. For the heating and additional heating of old and new buildings.** Suitable for carpet, ceramic tiles and parquet floor. 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/m<sup>2</sup> 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 B x H [cm]	Fläche [m <sup>2</sup> ]	Order number	Price [Euro]
WFK 0.5	0,08	50 x 100	0,50	143 200 405	109,84
WFK 1.0	0,16	50 x 200	1,00	143 200 410	139,80
WFK 1.5	0,24	50 x 300	1,50	143 200 415	184,73
WFK 2.0	0,32	50 x 400	2,00	143 200 420	217,18
WFK 2.5	0,40	50 x 500	2,50	143 200 425	262,11
WFK 3.0	0,48	50 x 600	3,00	143 200 430	308,30
WFK 4.0	0,64	50 x 800	4,00	143 200 440	369,46
WFK 5.0	0,80	50 x 1000	5,00	143 200 450	460,58
WFK 6.0	0,96	50 x 1200	6,00	143 200 460	506,76
WFK 7.0	1,12	50 x 1400	7,00	143 200 470	569,17
WFK 8.0	1,28	50 x 1600	8,00	143 200 480	644,06
WFK 9.0	1,44	50 x 1800	9,00	143 200 490	705,22
WFK 10.0	1,60	50 x 2000	10,00	143 200 499	781,36
WFK 12.0	1,92	50 x 2400	12,00	143 200 412	1001,04
WFK 14.0	2,24	50 x 2800	14,00	143 200 414	1170,79

# Under-floor heating

## Heating mat Warm-Floor WFK-Set



### Heating mat-set WFK 160 W/m<sup>2</sup>

#### 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 B x H [cm]	Fläche [m <sup>2</sup> ]	Order number	Price [Euro]
WFK 0.5	0,08	50 x 100	0,50	143 200 805	310,80
WFK 1.0	0,16	50 x 200	1,00	143 200 810	342,01
WFK 1.5	0,24	50 x 300	1,50	143 200 815	388,19
WFK 2.0	0,32	50 x 400	2,00	143 200 820	418,14
WFK 2.5	0,40	50 x 500	2,50	143 200 825	464,32
WFK 3.0	0,48	50 x 600	3,00	143 200 830	510,50
WFK 4.0	0,64	50 x 800	4,00	143 200 840	572,91
WFK 5.0	0,80	50 x 1000	5,00	143 200 850	664,02
WFK 6.0	0,96	50 x 1200	6,00	143 200 860	710,22
WFK 7.0	1,12	50 x 1400	7,00	143 200 870	770,12
WFK 8.0	1,28	50 x 1600	8,00	143 200 880	847,51
WFK 9.0	1,44	50 x 1800	9,00	143 200 890	908,67
WFK 10.0	1,60	50 x 2000	10,00	143 200 899	986,05
WFK 12.0	1,92	50 x 2400	12,00	143 200 812	1205,73
WFK 14.0	2,24	50 x 2800	14,00	143 200 814	1371,75

Discount group TT\_400

# NATURAL STONE HEATING

**HEALTHY HEAT  
IN AN ELEGANT FORM!**

Natural stone heaters from TECHNO THERM 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 TECHNO THERM natural stone heating radiates health radiant warmth, which directly heats people and objects in the room without heat 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 heating 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 130).





◀ 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 precious raw material of our natural stone heating systems comes from:s:

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



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.



# Natural-stone heater

## Series TTM-S



## 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 130) external control and our Eco interface (see page 125).**



Model Varios	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 508	851,26
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 608	1024,75
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 708	1109,62
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 808	1195,76
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 908	1336,80
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 108	1442,89

Discount group TT\_300

Model Galaxis	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 501	851,26
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 601	1024,75
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 701	1109,62
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 801	1195,76
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 901	1336,80
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 111	1442,89

Discount group TT\_300

# Natural-stone heater

## Series TTM-S



## 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 130) external control and our Eco interface (see page 125).



Model Padua Antik	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 519	851,26
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 619	1024,75
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 719	1109,62
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 819	1195,76
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 919	1336,80
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 119	1442,89

Discount group TT\_300

Model Jura	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 503	851,26
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 603	1024,75
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 703	1109,62
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 803	1195,76
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 903	1336,80
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 113	1442,89

Discount group TT\_300

# Natural-stone heater

## Series TTM-S



### 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 130) external control and our Eco interface (see page 125).**



Model Sahara	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 502	851,26
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 602	1024,75
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 702	1109,62
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 802	1195,76
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 902	1336,80
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 122	1442,89

Discount group TT\_300

Model Prinos	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 506	866,23
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 606	1043,48
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 706	1132,09
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 806	1216,97
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 906	1358,01
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 106	1459,12

Discount group TT\_300

# Natural-stone heater

## Series TTM-S



### Natural-stone heater Sylvia Antik / Ruschita Lachs

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 130) external control and our Eco interface (see page 125).



Model Sylvia Antik	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 507	866,23
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 607	1043,48
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 707	1132,09
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 807	1216,97
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 907	1358,01
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 107	1459,12

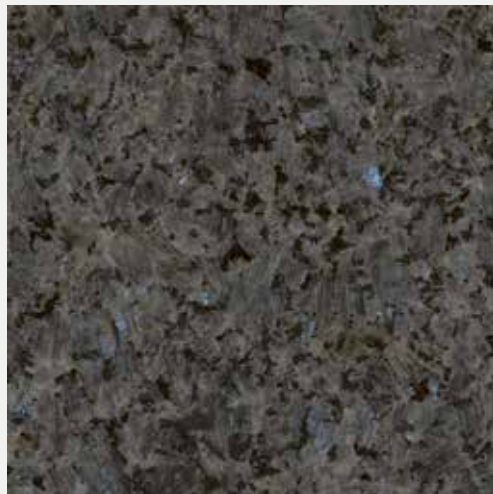
Discount group TT\_300

Model Ruschita Lachs	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 505	836,94
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 605	1.008,19
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 705	1.093,81
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 805	1.175,82
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 905	1.312,09

Discount group TT\_300

# Natural-stone heater

## Series TTM-S



### 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 130) external control and our Eco interface (see page 125).**



Model Thassos	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 514	1028,5
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 614	1174,54
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 714	1296,86
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 814	1412,93
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 914	1695,02
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 114	2013,31

Discount group TT\_300

Model Labrador	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 517	1028,5
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 617	1174,54
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 717	1296,86
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 817	1412,93
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 917	1695,02
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 117	2013,31

Discount group TT\_300



# Natural-stone heater

## Series TTM-S



## 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 130) external control and our Eco interface (see page 125).**



Model Matrix	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 518	1167,05
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 618	1326,81
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 718	1426,66
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 818	1557,73
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 918	1816,09
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 118	2155,60

Discount group TT\_300

Model Atlantis	Power [KW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 513	1167,05
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 613	1326,81
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 713	1426,66
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 813	1557,73
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 913	1816,09
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 413	2155,60

Discount group TT\_300

# ACCESSORIES

EVERYTHING FOR **YOUR** HEATER

We offer a wide range of different accessories for our high-quality heaters.

- Different thermostats allow you to have special features for your heater.
- Stay "mobile" with the feet or castors. The foolproof assembly makes this possible.
- Enjoy the high-quality towel rail for your new infrared heater





# ACCESSORIES

## Thermostate



①



②



③

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

**The DSM thermostat can be controlled via the internet with the free TECHNOTHERM APP using the DSM interface (to be ordered separately, see p. 125).**

Separate temperatures and various time programmes can be set for each room (see p. 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-home" function reduces all programmed appliances by a certain temperature. Automatic function detects presence and absence and adapts to your heating needs. The DSM thermostat makes your heater ErP-compliant.

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

The Plus thermostat allows you to operate the unit easily. Thermostat with weekday function, open window detection and self-learning start function: Reaches a set temperature at your desired time (e.g. at 6:30 a.m. it should be 21 °C warm in the bathroom). Setting options: Comfort, setback, frost protection)

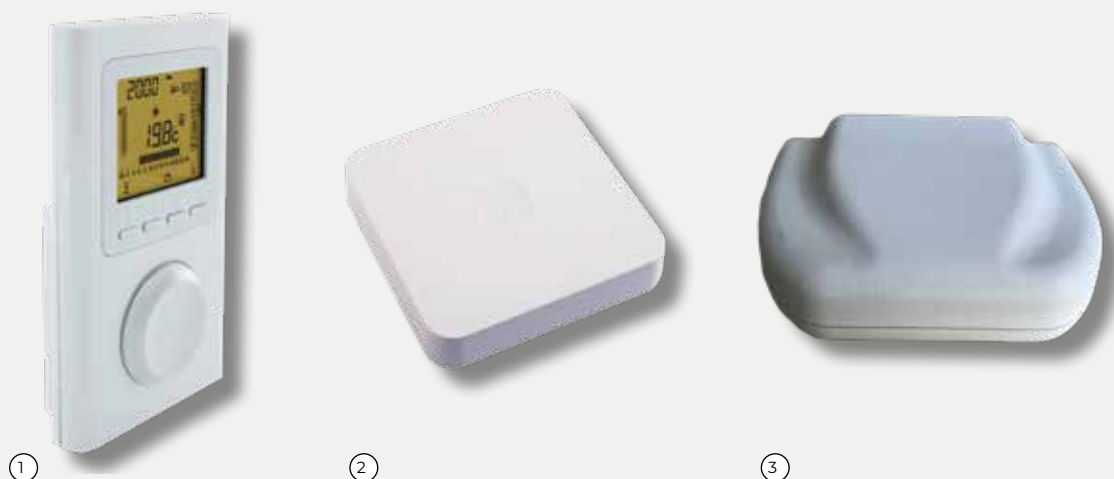
### Radio receiver RF<sup>3</sup>

**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. 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 125).

Model	Thermostat DSM/DSH	Thermostat plus	Receiver RF	Thermostat TPF-Eco	
TT-KS Products	x	x	x	x	
Convecto-Rad CHM	x	x	x	x	
VPS Design			x	x	
VPS	x	x	x	x	
SPH Heater	x	x	x	x	
VPN Heater	x				
CPH					
CVS					
Bathroom heater HR KSB	x		x	x	
Infrared heater ISP			x	x	
Natural stone heater			x	x	

# ACCESSORIES

## Direct heating



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

Simple operating elements, electronic rotary switch, backlighting: 3-coloured, display of consumption depending on setpoint, automatic summer/winter time change-over, key lock, radio protocol: bidirectionally tuned to the ECO receiver, compatible with 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 in the free TECHNOTHERM app helps to install the heaters and the interface easily.

For detailed description see p. 8 - 9

### TYDOM Home ECO-Interface 1.0<sup>2</sup>

You need this ECO interface to be able to access your heaters with an RF receiver from your end devices - smartphone or tablet - via the Internet. The installation is automated and can be done easily without prior knowledge. An installation wizard in the TYDOM app guides you through the menus.

1 set consists of:



For a detailed description, see page 12-13

Model	Power [KW]	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
① TPF-ECO radio thermostat		135 x 80 x 30	0,25	750 000 641	189,73
② TYDOM Home Interface 1.0		100 x 100 x 30	0,40	750 000 640	314,51
③ DSM Interface		100 x 70 x 35	0,20	911 950 100	230,91

Discount group TT\_150

# ACCESSORIES

## Direct heating



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

Digital display, 4 operating modes (comfort, setback, frost protection, AUTO), key lock, battery status display, battery change at the front, radio version: combination with central control possible. Power supply: 2 LR03 batteries, control type: PI control, protection class II, radio version, installation: surface-mounted or in flush-mounted box. Radio protocol: bidirectionally tuned to the ECO receiver, compatible with TYDOM APP control.

### 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**

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

Radio range of 100 - 300 m in unobstructed environment. Operating temperature: 0 °C to 40 °C, IK 04, 10 A, Protection class II.

**IP 20**

### 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 B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
① TBF-ECO		80 x 80 x 23	0,25	750 000 656	154,77
② TSF		140 x 70 x 50	0,25	750 000 633	139,80
③ TRF		120 x 54 x 25	0,10	750 000 634	121,07
④ UPR		55 x 47 x 33		750 000 647	156,03
⑤ UPF			0,50	750 000 648	49,93

# ACCESSORIES

## Direct heating



**Castors**  
Partial storage heater KS<sup>1</sup>

Set pair

**Feet stands**  
Partial storage heater KS<sup>2</sup>

Set pair

**Feet stands for direct**  
heater VP und VPS<sup>3</sup>

Set pair

**Feet stands for direct**  
heater CPH und CVS<sup>4</sup>

Set pair

Model	Power [kW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
① Castors for KS heater		approx. 60 mm high	0,50	450 912 965	69,89
② Feet stands for KS heater		approx. 60 mm high	0,50	450 910 965	69,89

Discount group TT\_200

Model	Power [kW]	Dimensions B x H x T [mm]	Weight [kg approx.]	Order number	Price [Euro]
③ Feet stands VP / VPS		approx. 60 mm high	0,50	429 900 200	29,95
④ Feet stands CPH / CVS		approx. 60 mm high	0,50	429 900 100	28,71

Discount group TT\_200

# ACCESSORIES

## Infrared heater



①



②



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

This additional ceiling mount facilitates assembly. It increases the security of your infrared heating 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. Also suitable for glass - and mirror ISP.

Model ①	for model	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
IH-TT 1	ISP-350	364 x 510 x 29		880 100 010	63,65
IH-TT 2	ISP-450	664 x 510 x 29		880 100 020	63,65
IH-TT 3	ISP-750	964 x 510 x 29		880 100 030	63,65
IH-TT 4	ISP-950	1264 x 510 x 29		880 100 040	63,65
IH-TT 5	ISP-1200	1564 x 510 x 29		880 100 050	63,65
IH-TT 6	ISP-351	664 x 350 x 29		880 110 010	63,65
IH-TT 7	ISP-501	964 x 350 x 29		880 110 020	63,65
IH-TT 8	ISP-651	1264 x 350 x 29		880 110 030	63,65
IH-TT 9	ISP851	1564 x 350 x 29		880 110 040	63,65

Discount group TT\_900

Model ②	for model	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
IB-TT 3	ISP 300 mm length	300 x 40		880 110 000	146,04
IB-TT 5	ISP 500 mm length	500 x 40		880 100 000	164,76

Discount group TT\_900



# Accessories

## Infrared heating



### ISP Rolls (Pair)

Suitable for all ISP devices, except ISP Design. The rollers are very easily attached to the respective ends of the infrared heater with the two wing screws.

### ISP Stand feet (pair)

Suitable for all ISP devices, except ISP Design. The rollers are very easily attached to the respective ends of the infrared heater with the two wing screws.



Model	Description	Dimension B x H x T [mm]	Weight [ca. kg]	Order number	Price [Euro]
ISP-Rollers	Pair / RAL 9003	ca. 70 mm	1,20	880 900 100	129,38
ISP-Feet	Pair / RAL 9003	ca. 50 mm	1,00	880 900 200	119,03

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 B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
TRF-N		122,00	0,35	750 000 635	146,04

## Replaceable front



### Change front Design

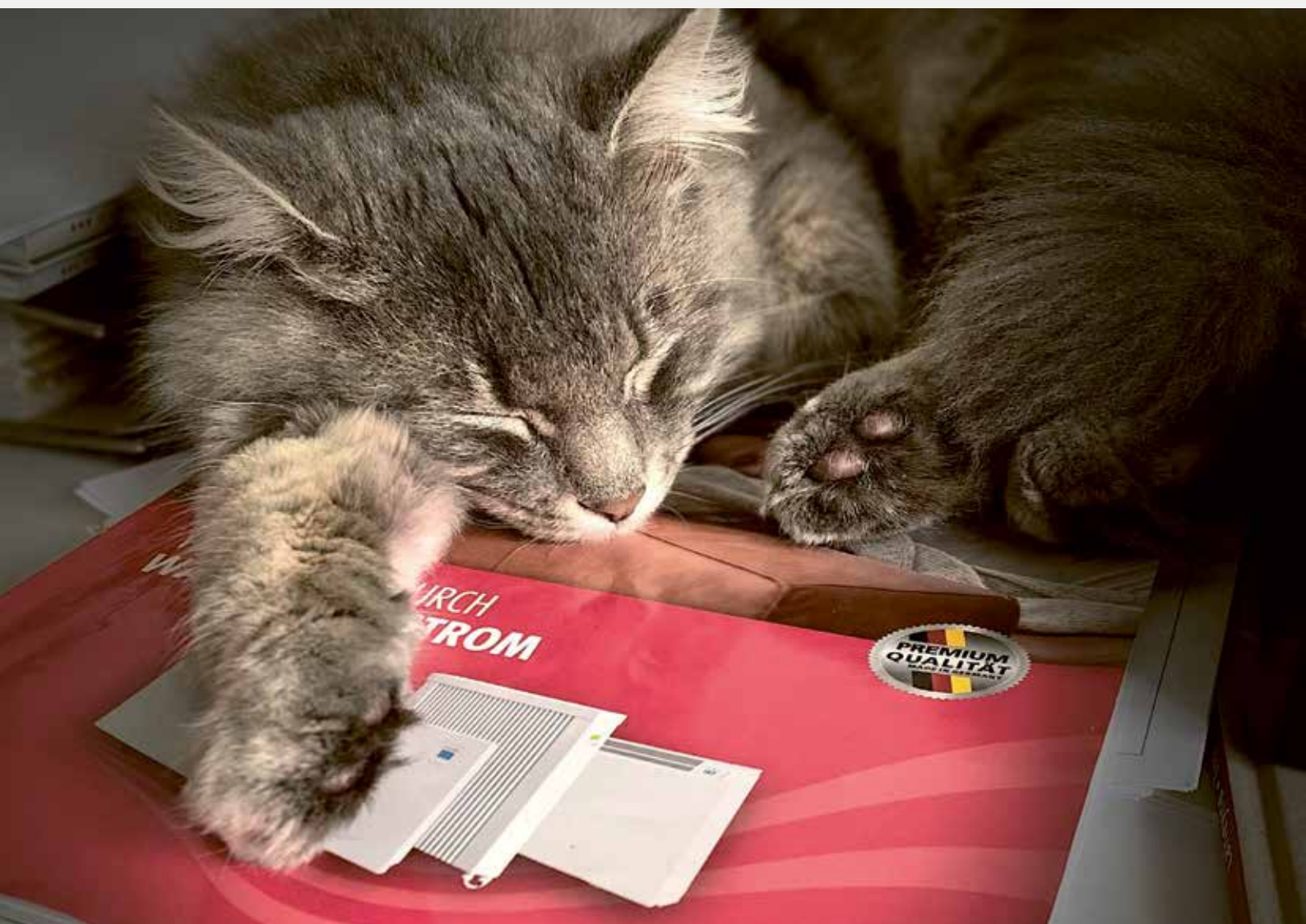
### Change front Smooth surface

This front element (RAL 9003) can be placed on an existing partial storage heater in very few steps. This design element gives your heating system a new look. The exchangeable fronts are available with a smooth surface or design stripes.

Model Design	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design - Front 38	380 x 630	4,00	450 920 380	108,05
Design - Front 68	680 x 630	5,00	450 920 680	119,23
Design - Front 85	850 x 630	6,00	450 920 850	130,41
Design - Front 98	980 x 630	6,50	450 920 980	139,73
Design - Front 128	1280 x 630	8,00	450 920 280	162,08
Design - Front 68 N	680 x 340	3,00	450 930 680	108,05
Design - Front 85 N	850 x 340	4,00	450 930 850	119,23
Design - Front 98 N	980 x 340	4,50	450 930 980	130,41
Design - Front 128 N	1280 x 340	5,00	450 930 280	139,73
Design - Front 158 N	1580 x 340	6,00	450 930 580	150,90
Discount group TT_300				

Modell Smooth	Dimensions B x H X T [mm]	Weight [kg approx.]	Order number	Price [Euro]
Wechsel - Front 38	380 x 630	4,00	450 921 380	108,05
Wechsel - Front 68	680 x 630	5,00	450 921 680	119,23
Wechsel - Front 85	850 x 630	6,00	450 921 850	130,41
Wechsel - Front 98	980 x 630	6,50	450 921 980	139,73
Wechsel - Front 128	1280 x 630	8,00	450 921 280	162,08
Wechsel - Front 68 N	680 x 340	3,00	450 931 680	108,05
Wechsel - Front 85 N	850 x 340	4,00	450 931 850	119,23
Wechsel - Front 98 N	980 x 340	4,50	450 931 980	130,41
Wechsel - Front 128 N	1280 x 340	5,00	450 931 280	139,73
Wechsel - Front 158 N	1580 x 340	6,00	450 931 580	150,90
Discount group TT_300				

# Discount group



TT 120 - Living room storage heater

TT 150 - Controller, interface, receiver and control unit

TT 200 - Partial storage heater, direct heating Part I, infrared heating

TT 300 - Bath heating, natural stone heating

TT 400 - Underfloor heating

TT 800 - Direct heating Part III

TT 900 - Accessories

TT 1000 - Spare parts

# 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.



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.

#### I. Allgemeine Bestimmungen

Für den Umfang der Lieferungen oder Poweren (im Folgenden: Lieferungen) sind die beiderseitigen schriftlichen Erklärungen maßgebend. Allgemeine Geschäftsbedingungen des Bestellers gelten jedoch nur insoweit, als der Lieferer oder Leisende (im Folgenden: Lieferer) ihnen ausdrücklich schriftlich zugestimmt hat. An Kostenvoranschlägen, 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 Powersmerkmalen 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 Poweren 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 Poweren 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 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 Kontokorrentverhältnis auf, so ist die Kontokorrentforderung 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 vorheriger 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/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, erforderlichen 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 angemessig; dies gilt nicht, wenn der Lieferer die Verzögerung zu vertreten hat. Ist die Nichterhaltung 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 er wegen des Verzuges nicht in zweckdienlichen Betrieb genommen werden konnte. Sowohl Schadensersatzansprüche des Bestellers wegen Verzögerung der Lieferung als auch Schadensersatzansprüche statt der Power, die über die in Nr. 3 genannten Grenzen hinausgehen, sind in allen Fällen verzögert. Erfolgt die Lieferung, auch nach Ablauf einer vom 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

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.

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: a) alle Erd-, Bau- und sonstigen branchenfremden Nebenanbeiten einschließlich der dazu benötigten Fach- und Hilfskräfte, Baustoffe und Werkzeuge, b) die zur Montage und Inbetriebsetzung erforderlichen Bedarfsgegenstände und -stoffe, wie Gerüste, Hebezeuge und andere Vorrichtungen, Brennstoffe und Schmiermittel, c) Energie und Wasser an der Verwendungsstelle einschließlich der Anschlüsse, Heizung und Beleuchtung, d) bei der Montagestelle für die Aufbewahrung der Maschinenteile, Apparaturen, Materialien, Werkzeuge usw. genügend große, geeignete, trockene und verschleißbare 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, e) 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 Aufbaus so weit fortgeschritten sein, dass die Aufstellung oder Montage vereinbarungsgemäß begonnen und ohne Unterbrechung durchgeführt werden kann. Anfuhrwege und der Aufstellungs- oder Montageplatz müssen geeignet 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 Poweren 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. Sachmängelanprüche 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 vorschreibt 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 berechtigte Ansprüche erhebt, haftet der Besteller gegenüber dem Besteller innerhalb der in Art. VIII Nr. 2 bestimmten Frist wie folgt: a) 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. b) Die Pflicht des Lieferers zur Power von Schadensersatz richtet sich nach Art. XI. c) 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 einer 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 unvermeidbare 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 Sachmängelanprüche geltenden Verjährungsfrist gemäß Art. VIII Nr. 2. Bei Schadensersatzansprüchen nach dem Produkthaftungsgesetz gelten die gesetzlichen Verjährungsvorschriften.

#### XII. Gerichtsstand und anwendbares Recht

Alleiniger Gerichtsstand 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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