



EXPORT RETAIL PRICE LIST

Valid from 04.2018





Feel Good
through the warmth
created 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 31 years, we have been a leading German Manufacturer of electrical heating products**
- **The highest standards assured in all areas of the business, by our quality control management team**
- **Sucessfully established in both national and international markets**
- **Development and manufacturing in Germany**
- **Innovative solutions for special tasks and a comprehensive product range**



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



Uwe Lucht jun.
Managing Director



EVERYTHING IS UNDER CONTROL: THE LHZ APP

FOR ALL DEVICES WITH THE **DSM THERMOSTAT**



Now with voice control:

amazon alexa



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)





▲ Monitoring of consumption and heating costs by means of illustrative curve presentation

▲ Programming the heating periods

CONTROL

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



DEVICES REQUIRED

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



More informations at: www.technotherm.de/lhzapp

ECO-INTERFACE 1.0 – CENTRAL CONTROL MANAGEMENT

SMART-HOME-SOLUTION FOR
ALL AFFILIATED DELTA DORE DEVICES



WHAT THE ECO INTERFACE 1.0 DOES:

- Quick installation
- Easy connection to an internet router
- Intuitive use thanks to photo mode and display of rooms
- Connection of all Delta Dore devices with the TTi App
- Wireless communication with all compatible devices (TYBOX, TYXIA, TYXAL+, etc.)



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

FUNCTIONS

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



SCENARIOS

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

FACTS

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

ECO-INTERFACE 2.0 – IP/ GSM TELEPHONE MODEM

SMART-HOME SOLUTION FOR CONNECTED
DEVICES AND A DELTA DORE ALARM SYSTEM



WHAT THE ECO INTERFACE 2.0 DOES:

- Control of all DeltaDore products connected to TYDOM APP
- Video analysis of triggering grounds and remote monitoring
- Receive alarms, even in the event of a power failure or loss of the Internet connection



Latest Features:

CONTROL WITH **SMARTPHONES OR TABLETS**.
CONTROLLING YOUR **LOCAL** DEVICE AND
THE **ALARM STATION** FROM THE INTERNET



FUNCTIONS:

- Video function (with motion detector and alarm center)
- Automatic video analysis when activated
- Remote video surveillance of the living area
- Voice alarms or SMS messages for burglaries, fire risks etc.
- SMS sending when arming / disarming the system (option)
- Configuration of 6 phone numbers
- Audio analysis of triggering reasons and opposing function

CONTROL

- Local control from a distance: Heating, lighting, roller shutters, home automation and scenarios
- Control and status display of the alarm center
- Detailed consumption display (Electricity, gas, water, etc.)
- Status display on most control units (room temperature, lighting etc.)
- Personal design of the library, symbols and interior photos
- Manage up to 10 locations (Apartments, second homes, shops etc.)



THE TECHNOTHERM ENERGY MANAGER

ELECTRICAL **HEAT ACCUMULATORS** CAN BE USED WITH PHOTOVOLTAIC SYSTEMS. **SMART CONTROL** OF ENERGY DISTRIBUTION

The TT Energy Manager is an electrical control unit that measures the existing solar power and controls the energy distribution. You can supply your home both with self-generated and heating energy in a smart way according to your individual need.

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



CAN ALSO BE INSTALLED IN EXISTING PHOTOVOLTAIC SYSTEMS DEVICES!



We integrate our **TT Energy Manager** in your already **existing system components**: whether wood, gas or oil heating.

SOLAR ENERGY FOR FREE!

The TT Energy Manager makes it possible!



Energy revolution for your home!

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

With **TT Energy Manager**, you become, for the most part, independent from your energy supplier and heating costs. Our TT Energy Manager is a part of your future which you can use already today.

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!



ErP Ready - The ErP directive

WITH PRODUCTS OF TECHNOTHERM YOU ARE **ERP READY!**

In the Ecodesign Directive (the ErP Directive), the European Union requires that the environmental impact of energy-related products be minimized. To this end, requirements for an environmentally sound design of products throughout their life cycle have been defined and transposed into national law.

Instrument of environmental protection

Many products which are similar in use, function and performance differ in their efficiency and environmental compatibility. The environment can be relieved in the long term by resourceconserving and energy-efficient product design.

Uniform directive for the whole EU

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

Implementation at TECHNOTHERM

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



Ecodesign Directive (ErP)

ENERGY LABEL FOR HEATERS.



Graphical representation subject to change as legal changes may follow.

Objectives of the ErP Directive

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

Our energy-saving and future-proof electric heaters

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

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



Calculation according to the ErP Directive

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

for electric room heaters applies:

$n_{s0} = 40\%$
 F1 only for electric storage heaters
 F4 = 0
 F5 = 0

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

PARTIAL STORAGE 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 the LHZ APP (DSM thermostat)**
- **Self-generated electricity can be used with the TECHNOTHERM energymanager**
- **"Low Temperature" ideal for kindergardens, schools and social facilities**

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



Partial storage 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, 3-5 hours of electricity are needed on average for 24 hours heat release.

MAGMATIC® energy storage stone

Using a special technology, the heating conductors manufactured from chromium-nickel steel (scale resistant at up to 1,100 °C, better contact conditions) are filled into the storage stone. Thus the energy is almost completely converted into heat directly in the storage stone.

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



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



CONTROL YOUR DEVICES THROUGH INNOVATIVE NEW WIFI THERMOSTATS

Thermostat DSM



The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 111) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 6-7). Current consumption and a "history" are easy to read. The thermostat detects an open window and reacts accordingly ("Open Window" function). The "out-of-house" function allows all programmed devices to be down-regulated by a certain temperature. Automatic function - detects presence and absence and adapts to your heat demand. The DSM thermostat makes your heater, among others, ErP-ready.



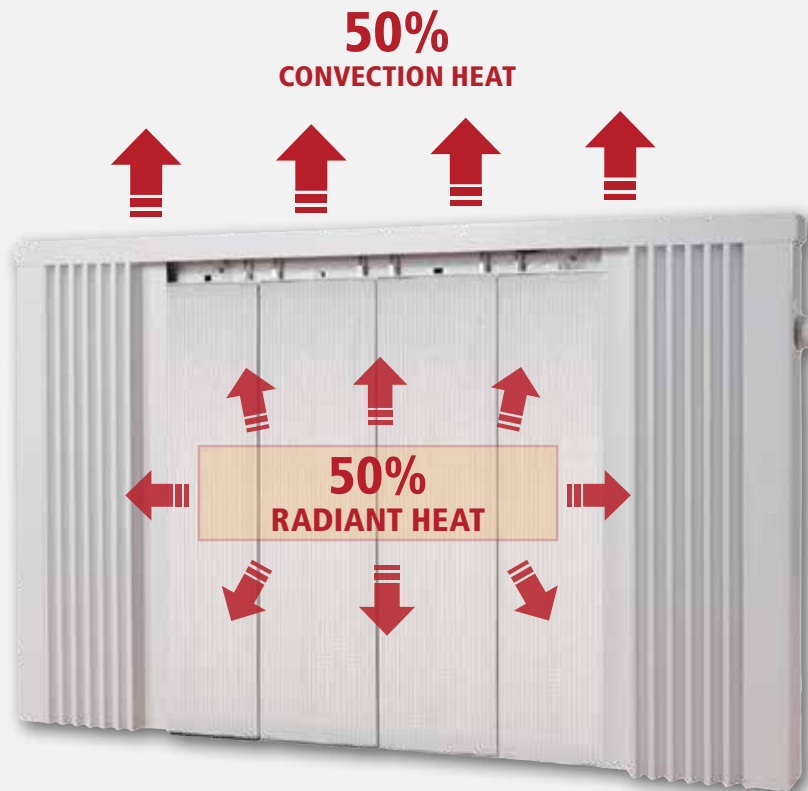
Radio receiver RF



Built-in radio receiver for control with an external thermostat. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control via the Internet, range within the building approx. 30 m (depending on the design), radio frequency 868 MHz (standard EN 300 200), for ECO interface (see page 8-11).

The TPF-ECO thermostat must be ordered separately (see page 111).



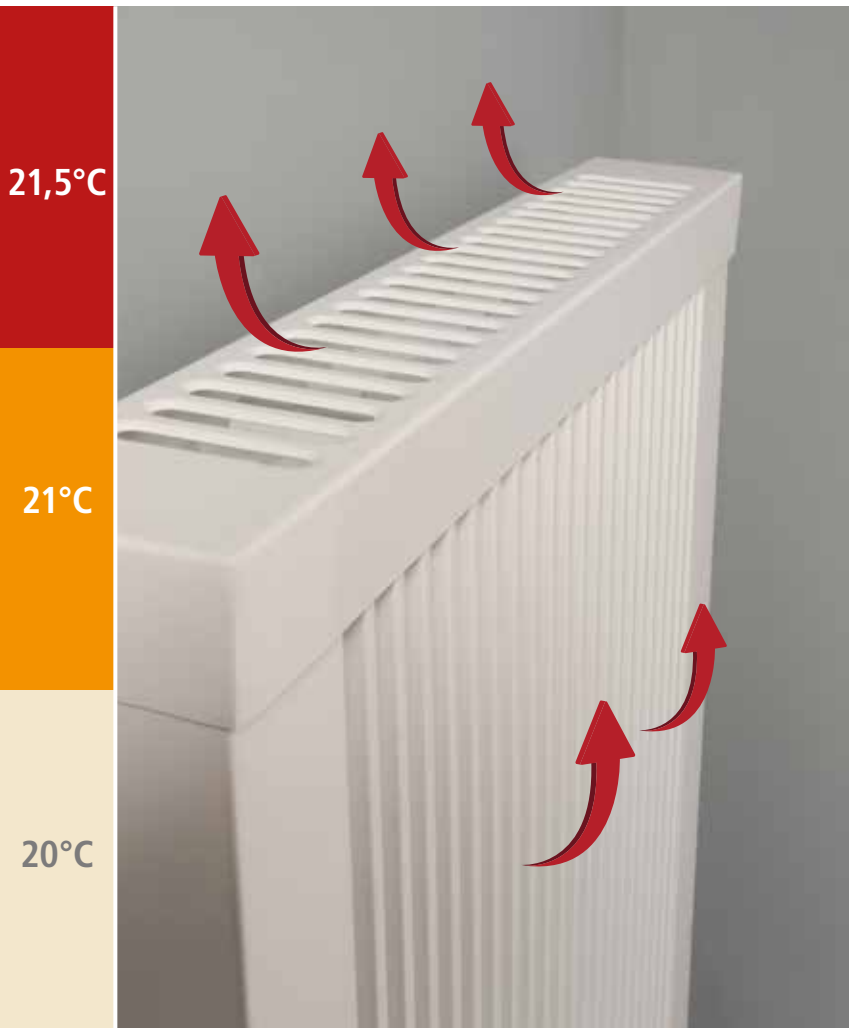
BENEFITS OF **CONVECTION HEAT** AND **RADIANT HEAT** IN A DEVICE

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

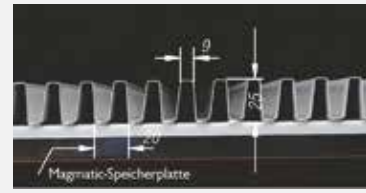
MAGMATIC®-energy storage stone

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





▼ Sheet steel fins with 6 times more surface



▲ Special ceramic panels

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



Partial storage heating

Series TT KS-S



TT KS-S

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

Mobile version.

IP 20



TT KS-S DSM

As standard, in addition with DSM thermostat.

The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 111) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 6-7). With electronic room temperature control and weekday regulation. Detection of open window. Adaptive start control. Internet option (see page 111).



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 500 S	0,50	380 x 630 x 70	22,00	450 605 965	594,00
TT-KS 1000 S	1,00	680 x 630 x 70	36,00	450 610 965	836,00
TT-KS 1200 S	1,20	680 x 630 x 70	36,00	450 612 965	896,00
TT-KS 1500 S	1,50	980 x 630 x 70	50,00	450 615 965	985,00
TT-KS 1800 S	1,80	980 x 630 x 70	50,00	450 618 965	1.003,00
TT-KS 2000 S	2,00	1280 x 630 x 70	62,00	450 620 965	1.038,00
TT-KS 2400 S	2,40	1280 x 630 x 70	62,00	450 624 965	1.077,00
TT-KS 2800 S	2,80	1580 x 630 x 70	82,00	450 628 965	1.182,00

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [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	666,00
TT-KS 1000 S DSM	1,00	680 x 630 x 70	36,00	450 610 975	900,00
TT-KS 1200 S DSM	1,20	680 x 630 x 70	36,00	450 612 975	958,00
TT-KS 1500 S DSM	1,50	980 x 630 x 70	50,00	450 615 975	1.043,00
TT-KS 1800 S DSM	1,80	980 x 630 x 70	50,00	450 618 975	1.060,00
TT-KS 2000 S DSM	2,00	1280 x 630 x 70	62,00	450 620 975	1.094,00
TT-KS 2400 S DSM	2,40	1280 x 630 x 70	62,00	450 624 975	1.132,00
TT-KS 2800 S DSM	2,80	1580 x 630 x 70	82,00	450 628 975	1.234,00

Discount group TT_200



TT KS-S RF

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). **IP 20.**

The TPF-ECO thermostat and ECO-Interface must be ordered separately for all RF models (see page 111).



TT KS-S X4

Like standard, additionally with splash protection, incl. stands. **Mobile version.**

IP 24



Model	Power [kW]	Dimensions W x H x D [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	637,00
TT-KS 1000 S RF	1,00	680 x 630 x 70	36,00	450 610 955	879,00
TT-KS 1200 S RF	1,20	680 x 630 x 70	36,00	450 612 955	940,00
TT-KS 1500 S RF	1,50	980 x 630 x 70	50,00	450 615 955	1.028,00
TT-KS 1800 S RF	1,80	980 x 630 x 70	50,00	450 618 955	1.045,00
TT-KS 2000 S RF	2,00	1280 x 630 x 70	62,00	450 620 955	1.081,00
TT-KS 2400 S RF	2,40	1280 x 630 x 70	62,00	450 624 955	1.120,00
TT-KS 2800 S RF	2,80	1580 x 630 x 70	82,00	450 628 955	1.224,00

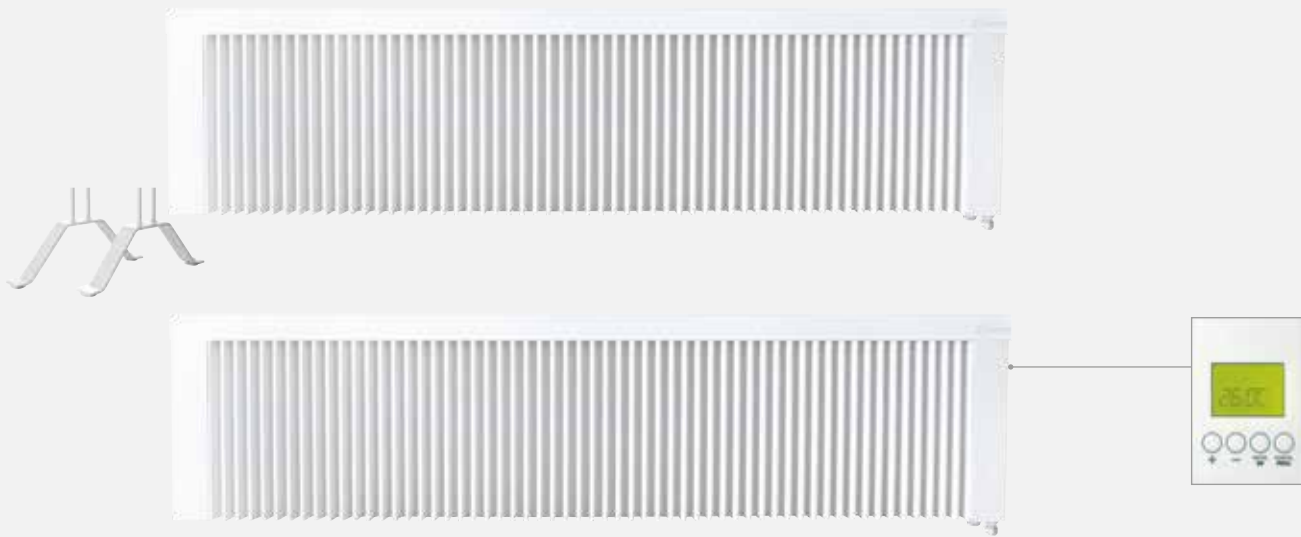
Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 500 S X4	0,50	380 x 630 x 70	22,00	450 605 964	701,00
TT-KS 1000 S X4	1,00	680 x 630 x 70	36,00	450 610 964	943,00
TT-KS 1200 S X4	1,20	680 x 630 x 70	36,00	450 612 964	1.003,00
TT-KS 1500 S X4	1,50	980 x 630 x 70	50,00	450 615 964	1.091,00
TT-KS 1800 S X4	1,80	980 x 630 x 70	50,00	450 618 966	1.108,00
TT-KS 2000 S X4	2,00	1280 x 630 x 70	62,00	450 620 966	1.144,00
TT-KS 2400 S X4	2,40	1280 x 630 x 70	62,00	450 624 966	1.183,00
TT-KS 2800 S X4	2,80	1580 x 630 x 70	82,00	450 628 966	1.289,00

Discount group TT_200

Partial storage heating

Series TT KS-N



TT KS-N

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

Mobile version.

IP 20



TT KS-N DSM

As standard, in addition with DSM thermostat.

The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 111) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 6-7). With electronic room temperature control and weekday regulation. Detection of open window. Adaptive start control. Internet option (see page 111).



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 800 N	0,80	680 x 340 x 70	21,00	450 308 965	620,00
TT-KS 1200 N	1,20	980 x 340 x 70	24,50	450 312 965	799,00
TT-KS 1600 N	1,60	1280 x 340 x 70	34,50	450 316 965	965,00
TT-KS 2000 N	2,00	1580 x 340 x 70	38,00	450 320 965	987,00

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [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	690,00
TT-KS 1200 N DSM	1,20	980 x 340 x 70	24,50	450 312 975	864,00
TT-KS 1600 N DSM	1,60	1280 x 340 x 70	34,50	450 316 975	1.024,00
TT-KS 2000 N DSM	2,00	1580 x 340 x 70	38,00	450 320 975	1.045,00

Discount group TT_200



TT KS-N RF

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). **IP 20.**

The TPF-ECO thermostat and ECO-Interface must be ordered separately for all RF models (see page 111).



TT KS-N X4

Like standard, additionally with splash protection, incl. stands. **Mobile version.**

IP 24



Model	Power [kW]	Dimensions W x H x D [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	663,00
TT-KS 1200 N RF	1,20	980 x 340 x 70	24,50	450 312 955	842,00
TT-KS 1600 N RF	1,60	1280 x 340 x 70	34,50	450 316 955	1.007,00
TT-KS 2000 N RF	2,00	1580 x 340 x 70	38,00	450 320 955	1.030,00

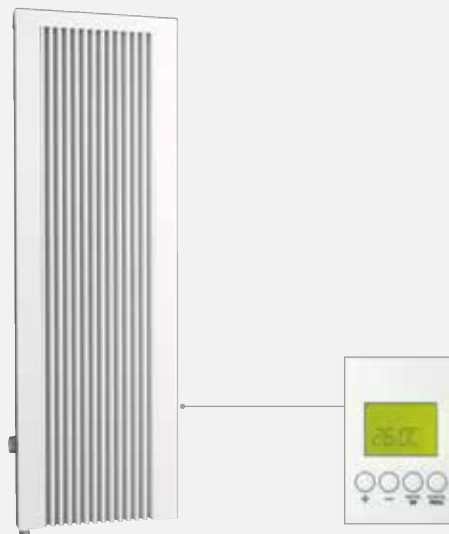
Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 800 N X4	0,80	680 x 340 x 70	21,00	450 308 964	726,00
TT-KS 1200 N X4	1,20	980 x 340 x 70	24,50	450 312 964	906,00
TT-KS 1600 N X4	1,60	1280 x 340 x 70	34,50	450 316 966	1.071,00
TT-KS 2000 N X4	2,00	1580 x 340 x 70	38,00	450 320 966	1.093,00

Discount group TT_200

Partial storage heating

Series TT KS-H



TT KS-H

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

IP 20

Can only be used in conjunction with external weekday control (see p. 111)

TT KS-H DSM

As standard, in addition with DSM thermostat.

The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 111) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 6-7). With electronic room temperature control and weekday regulation. Detection of open window. Adaptive start control. Internet option (see page 111).

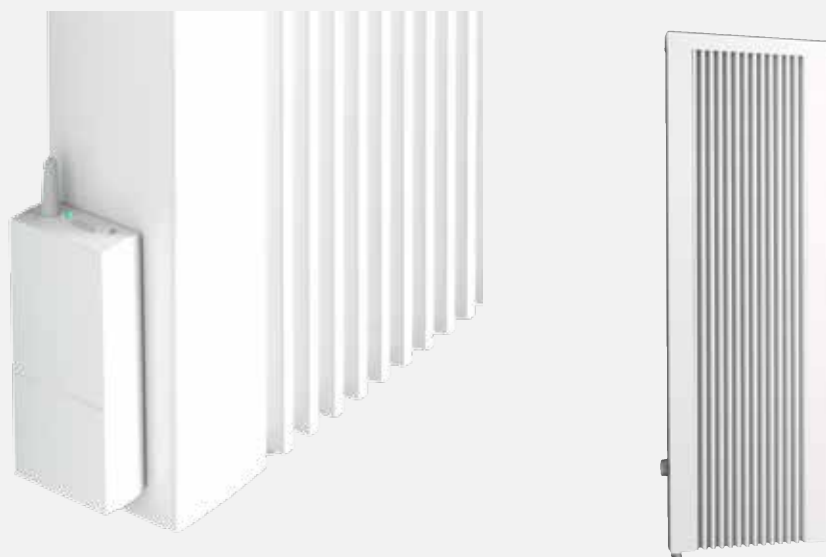


Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 1200 H	1,20	380 x 1240 x 70	35,00	450 112 965	938,00
TT-KS 1800 H	1,80	550 x 1240 x 70	58,00	450 118 965	1.040,00
TT-KS 2200 H	2,20	680 x 1240 x 70	66,00	450 220 965	1.166,00

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [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	998,00
TT-KS 1800 H DSM	1,80	550 x 1240 x 70	58,00	450 118 975	1.096,00
TT-KS 2200 H DSM	2,20	680 x 1240 x 70	66,00	450 122 975	1.218,00

Discount group TT_200



TT KS-H RF

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). **IP 20.**

The TPF-ECO thermostat and ECO-Interface must be ordered separately for all RF models (see page 111).



TT KS-H X4

Like standard, additionally with splash protection.

IP 24

Can only be used in conjunction with external weekday control (see p. 111)



Model	Power [kW]	Dimensions W x H x D [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	980,00
TT-KS 1800 H RF	1,80	550 x 1240 x 70	58,00	450 118 955	1.083,00
TT-KS 2200 H RF	2,20	680 x 1240 x 70	66,00	450 122 955	1.209,00

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 1200 H X4	1,20	380 x 1240 x 70	35,00	450 112 966	1.044,00
TT-KS 1800 H X4	1,80	550 x 1240 x 70	58,00	450 118 966	1.146,00
TT-KS 2200 H X4	2,20	680 x 1240 x 70	66,00	450 122 966	1.272,00

Discount group TT_200

Partial storage heating for social facilities

Series TT KS-S LT



TT KS-LT

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

Mobile version. IP 20



TT KS-LT DSM

As standard, in addition with DSM thermostat.

The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 111) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 6-7). With electronic room temperature control and weekday regulation. Detection of open window. Adaptive start control. Internet option (see page 111).



Model	Power [kW]	Dimensions W x H x D [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	934,00
TT-KS 1200 S LT	1,20	980 x 630 x 70	50,00	450 612 665	1.040,00
TT-KS 1500 S LT	1,50	1280 x 630 x 70	62,00	450 615 665	1.115,00
TT-KS 1800 S LT	1,80	1580 x 630 x 70	82,00	450 618 665	1.219,00

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 700 S LT DSM	0,70	680 x 630 x 70	36,00	450 607 970	994,00
TT-KS 1200 S LT DSM	1,20	980 x 630 x 70	50,00	450 612 970	1.096,00
TT-KS 1500 S LT DSM	1,50	1280 x 630 x 70	62,00	450 615 970	1.168,00
TT-KS 1800 S LT DSM	1,80	1580 x 630 x 70	82,00	450 618 970	1.270,00

Discount group TT_200



TT KS-LT RF

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

e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). **IP 20.** **The TPF-ECO thermostat and ECO-Interface must be ordered separately for all RF models (see page 111).**



TT KS-LT X4

Like standard, additionally with splash protection. **IP 24**



Model	Power [kW]	Dimensions W x H x D [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	976,00
TT-KS 1200 S LT RF	1,20	980 x 630 x 70	50,00	450 612 655	1.083,00
TT-KS 1500 S LT RF	1,50	1280 x 630 x 70	62,00	450 615 655	1.157,00
TT-KS 1800 S LT RF	1,80	1580 x 630 x 70	82,00	450 618 655	1.262,00

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TT-KS 700 S LT X4	0,70	680 x 630 x 70	36,00	450 607 666	1.040,00
TT-KS 1200 S LT X4	1,20	980 x 630 x 70	50,00	450 612 666	1.146,00
TT-KS 1500 S LT X4	1,50	1280 x 630 x 70	62,00	450 615 666	1.220,00
TT-KS 1800 S LT X4	1,80	1580 x 630 x 70	82,00	450 618 666	1.326,00

Discount group TT_200

DIRECT ACTING PANEL HEATERS

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

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

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

- **Wall Mounted Panel Heaters:** **Unique Designs and highly efficient**
- **Turbo Heaters:** **Powerful, comfortable fast heat**
- **Infra Red Heater:** **accurate 'short wave' heat**
- **Frost Protective Heaters:** **safe and affective**





PH Slimline & PH Ultraslim

ULTRASLIM WITH EXCEPTIONAL DESIGN!



◀ The 24/7 programmable thermostats have many features and benefits, including various temperature programs to simplify the operation of the heaters.

▲ **Ultra-Slim with an exceptional design!**

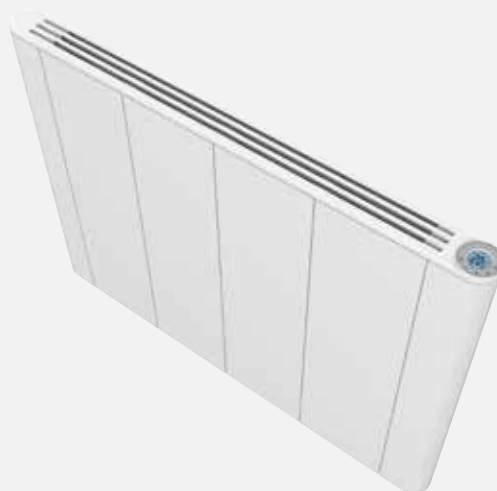
The PH Slimline and PH Ultraslim series offer a unique, flat design of only 7.5cm and 5cm.



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

Direct Panel Heating

Series PH Slimline & PH Ultraslim



PH Slimline C

- Durable epoxy powder RAL 9010
- High performance extruded aluminum heating element
- 7,5 cm width, width ensures it integrates into any décor
- Extrasilence: digital regulation with a Triac component
- Digital Programmable Control placed on the top (visibility and more accessible) with the following functions:
 - Proportional Regulating System (PID) with high performance
 - Intelligent Control System (ITCS), the radiator configures its connection times adapting to the temperature of your home according to season helping an efficient energy consumption
 - Programmable from the equipment (weekly programation, 9 pre-programs and 4 customs)
 - Counter of energy consumed (last 24h, 7 days, 30 days)
 - Comfort, economic and no frost Modes
 - Easy mode function
 - Baby-care function
 - LCD screen
 - Open Window function
 - Pilot wire.
- Security Thermal Control.
- 1.5m cable.



PH Ultraslim

- 100% high quality extruded aluminum design
- Ultraslim design: 5 cm width (the most thinner in the market)
- Extrasilence: digital regulation with a Triac component
- IEC Conector. Cable can be removed at the end of the season for not being visible. Compact Steel Housing box
- Durable epoxy powder RAL 9010
- Digital Programmable Control placed on the top (visibility and more accessible) with the following functions:
 - Proportional Regulating System (PID) with high performance
 - Intelligent Control System (ITCS), the radiator configures its connection times adapting to the temperature of your home according to season helping an efficient energy consumption
 - Programmable from the equipment (weekly programation, 9 pre-programs and 4 customs)
 - Counter of energy consumed (last 24h, 7 days, 30 days)
 - Comfort, economic and no frost Modes
 - Easy mode function
 - Baby-care function
 - LCD screen
 - Open Window function
- Security Thermal Control
- 1.5m cable.



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
PH Slimline C 900	0,90	560 x 562 x 75	5,20	429 750 110	312,00
PH Slimline C 1500	1,50	950 x 582 x 75	7,40	429 750 112	400,00
PH Slimline C 2000	2,00	1100 x 582 x 75	10,0	429 750 113	447,00

Discount group TT_250

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
PH Ultraslim 900	0,90	610 x 550 x 51	5,00	429 750 121	380,00
PH Ultraslim 1500	1,50	930 x 550 x 51	6,80	429 750 123	470,00
PH Ultraslim 2000	2,00	1090 x 550 x 51	7,70	429 750 124	505,00

Discount group TT_250

Wall Mounted VPS Design Panel Heater

WITH HIGH-QUALITY GLASS FRONT



▲ High-Quality Glass Front



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

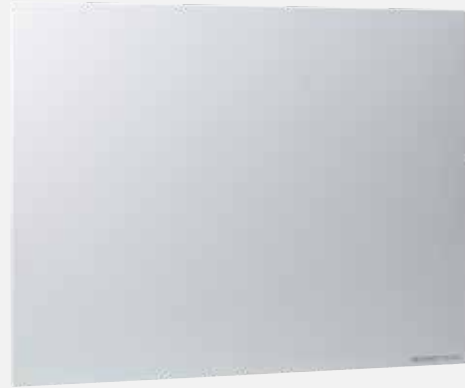
- Special ceramics thermal-storage heater for long-lasting warmth
- Effective heating unit made of aluminium
- Twin overheat safety protection
- Radio receiver RF to easily regulate the device
- Also available as a vertical version
- Glass front suitable for writing on (for bars, restaurants, etc.)
-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



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

Direct 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, restaurants, cafés etc., tempered safety glass with "crumble effect". As standard, with built-in radio receiver for control with an external thermostat. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type), radio frequency 868 MHz (standard EN 300 200), ECO interface (see page 8-11). **IP 24.**

The TPF-ECO thermostat must be ordered separately for all RF models (see page 111).



Model	Power [kW]	Dimensions W x H x D [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	596,00 €
VPS-Design B 1200 RF	1,20	755 x 454 x 68	15,00	429 754 403	616,00 €
VPS-Design B 1500 RF	1,50	1055 x 454 x 68	20,00	429 754 404	699,00 €
VPS-Design B 2000 RF	2,00	1055 x 454 x 68	20,00	429 754 406	720,00 €
VPS-Design B 1200 H RF	1,20	454 x 1055 x 68	17,00	429 755 403	677,00 €

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [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	596,00 €
VPS-Design W 1200 RF	1,20	755 x 454 x 68	15,00	429 754 303	616,00 €
VPS-Design W 1500 RF	1,50	1055 x 454 x 68	20,00	429 754 304	699,00 €
VPS-Design W 2000 RF	2,00	1055 x 454 x 68	20,00	429 754 306	720,00 €
VPS-Design W 1200 H RF	1,20	454 x 1055 x 68	17,00	429 755 303	677,00 €

Discount group TT_200

Wall mounted Panel Heater VPS

WITH BUILT-IN SPECIAL HEAT RETENTION CERAMIC TABLETS



▲ with DSM thermostat

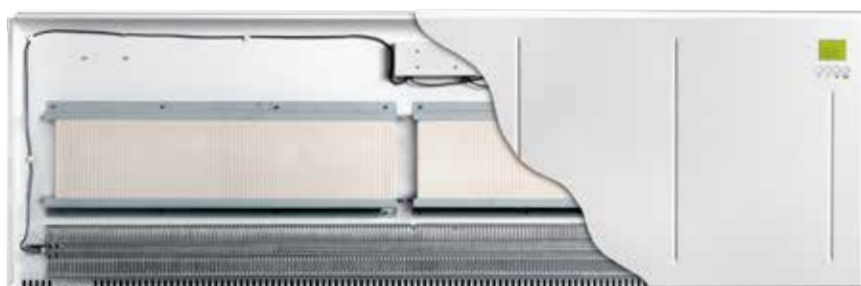


- ▲ The product range of TECHNOTHERM panel heating offers perfect solutions for all technical demands on heating. Whether in large-dimensional houses or small apartments - TECHNOTHERM offers heaters of an aesthetic design for stylish facings paired with the newest heating technologies. So you can heat 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.



RAL 9003 housing color



- Twin overheat safety protection
- with digital thermostat or DSM Thermostate
- with special ceramic storage
- 100% of ceramic natural materials

Direct heating

Series VPS



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, **IP24**

VPS DSM, VPS H DSM

As standard, in addition with DSM thermostat. The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 111) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 6-7).

VPS RF, VPS H RF

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). **IP 24. The TPF-ECO thermostat must be ordered separately for all RF models (see page 111).**

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS 1000 plus	1,00	750 x 450 x 68	11,50	429 754 212	338,00
VPS 1200 plus	1,20	750 x 450 x 68	11,50	429 754 213	360,00
VPS 1500 plus	1,50	1.050 x 450 x 68	15,00	429 754 214	393,00
VPS 2000 plus	2,00	1.050 x 450 x 68	15,00	429 754 216	414,00

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS 1000 DSM	1,00	750 x 450 x 68	11,50	429 754 272	419,00
VPS 1200 DSM	1,20	750 x 450 x 68	11,50	429 754 273	438,00
VPS 1500 DSM	1,50	1.050 x 450 x 68	15,00	429 754 274	470,00
VPS 2000 DSM	2,00	1.050 x 450 x 68	15,00	429 754 276	492,00
VPS 1200 H DSM	1,20	450 x 1050 x 68	11,50	429 755 233	484,00

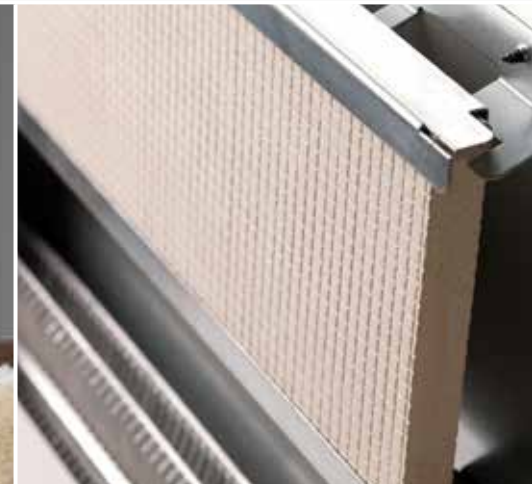
Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
VPS 1000 RF	1,00	750 x 450 x 68	11,50	429 754 222	381,00
VPS 1200 RF	1,20	750 x 450 x 68	11,50	429 754 223	403,00
VPS 1500 RF	1,50	1.050 x 450 x 68	15,00	429 754 224	436,00
VPS 2000 RF	2,00	1.050 x 450 x 68	15,00	429 754 226	457,00
VPS 1200 H RF	1,20	450 x 1050 x 68	11,50	429 755 223	449,00

Discount group TT_200

WALL MOUNTED CHM Convecto-Rad

FAST AND COST EFFICIENT 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



APPLICABLE TO
EUROPEAN
DIRECTIVE
ON ENERGY
RELATED
PRODUCTS



RAL 9003 housing color

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



Direct heating

Series CHM



Convactor CHM

Exclusive electric heater unites the properties and design of a wall convector and a surface thermalstorage heater, large surface, reduced weight, perfectly tuned heat-storage medium, high-quality heat storage stones. Incl. stands.

Mobile version.

IP 20

Wall convector CHM DSM

As standard, in addition with DSM thermostat. The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 111) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 6-7).

Wall convector CHM RF

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). **IP 24.**

The TPF ECO thermostat must be ordered separately for all RF models (see page 111).

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
CHM 500 E	0,50	380 x 630 x 70	10,0	440 605 960	463,00
CHM 1000 E	1,00	680 x 630 x 70	16,5	440 610 960	558,00
CHM 1500 E	1,50	980 x 630 x 70	23,5	440 615 960	672,00
CHM 2000 E	2,00	980 x 630 x 70	23,5	440 620 960	723,00

Discount group TT_200



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
CHM 500 DSM	0,50	380 x 630 x 70	10,00	440 605 330	538,00
CHM 1000 DSM	1,00	680 x 630 x 70	16,50	440 610 330	630,00
CHM 1500 DSM	1,50	980 x 630 x 70	23,50	440 615 330	740,00
CHM 2000 DSM	2,00	980 x 630 x 70	23,50	440 620 330	790,00
CHM 1000 H DSM	1,00	380 x 1240 x 70	16,50	440 110 330	790,00

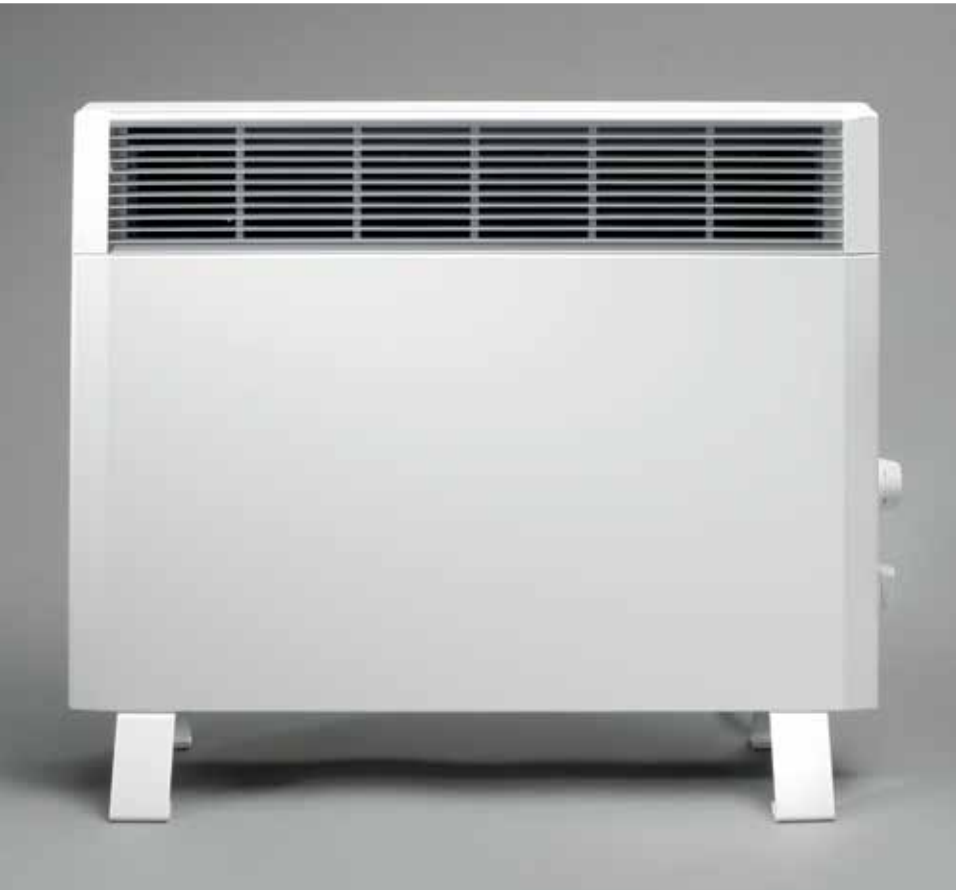
Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
CHM 500 RF	0,50	380 x 630 x 70	10,00	440 605 950	504,00
CHM 1000 RF	1,00	680 x 630 x 70	16,50	440 610 950	599,00
CHM 1500 RF	1,50	980 x 630 x 70	23,50	440 615 950	713,00
CHM 2000 RF	2,00	980 x 630 x 70	23,50	440 620 950	765,00

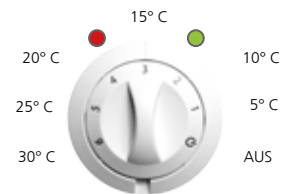
Discount group TT_200

CONVECTOR CPH CVS

WITH SPECIAL CERAMIC HEAT STORAGE



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).



Operating displays



Device is "ON" and in heating mode



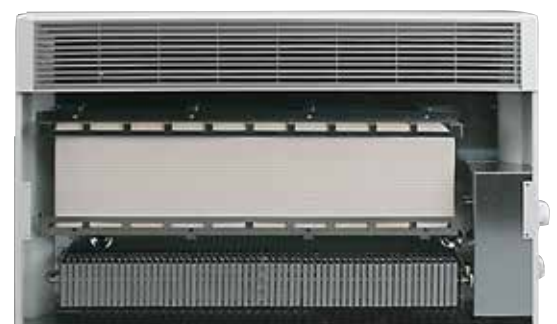
Device is "ON" but no heating mode



Device is "OFF"

Thermo-regulator of the "E" series

- Simple operating
- 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



Direct heating

Convactor CPH / CVS



Convactor CPH, CPH E

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

IP 24



Convactor CVS, CVS E

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



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
CPH 1000	1,00	415 x 445 x 85	8,00	429 753 102	251,00
CPH 1500	1,50	565 x 445 x 85	10,00	429 753 104	273,00
CPH 2000	2,00	695 x 445 x 85	13,00	429 753 106	303,00
CPH 2400	2,40	915 x 445 x 85	16,00	429 753 108	314,00
CPH 1000 E	1,00	415 x 445 x 85	8,00	429 753 302	298,00
CPH 1500 E	1,50	565 x 445 x 85	10,00	429 753 304	320,00
CPH 2000 E	2,00	695 x 445 x 85	13,00	429 753 306	350,00
CPH 2400 E	2,40	915 x 445 x 85	16,00	429 753 308	361,00

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
CVS 501	0,50	345 x 445 x 85	4,00	429 752 100	153,00
CVS 1001	1,00	415 x 445 x 85	4,80	429 752 102	175,00
CVS 1501	1,50	565 x 445 x 85	6,00	429 752 104	192,00
CVS 2001	2,00	695 x 445 x 85	7,00	429 752 106	205,00
CVS 2501	2,40	915 x 445 x 85	8,20	429 752 107	219,00
CVS 501 E	0,50	345 x 445 x 85	4,00	429 752 130	202,00
CVS 1001 E	1,00	415 x 445 x 85	4,80	429 752 132	224,00
CVS 1501 E	1,50	565 x 445 x 85	6,00	429 752 134	241,00
CVS 2001 E	2,00	695 x 445 x 85	7,00	429 752 136	253,00
CVS 2501 E	2,40	915 x 445 x 85	8,20	429 752 137	269,00

Discount group TT_200

Direct heating

Church Pew heater KBS Insulation boards UPK



Church Pew heater KBS

Bench heater, 1 level, 450W RM, quartz heating unit built-in mechanically safe. Full heating rate is already achieved after 5 min. Colour: similar to RAL 1019, powder coating, **special dimensions and colours are available on request.**

Insulation boards UPK

Insulation boards for pew heat-radiator KBS to be installed between the pew bottom side and the heater, thickness: 3 mm, standard for pew heat-radiator KBS



Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
KBS 6/25	0,25	600 x 100 x 90		437 000 001	231,00 €
KBS 8/35	0,35	800 x 100 x 90		437 000 002	243,00 €
KBS 10/45	0,45	1000 x 100 x 90		437 000 003	272,00 €
KBS 12/55	0,55	1200 x 100 x 90		437 000 004	304,00 €
KBS 14/65	0,65	1400 x 100 x 90		437 000 005	341,00 €

Discount group TT_800

Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
UPK 6/3		600 x 250 x 3		437 000 060	19,00 €
UPK 8/3		800 x 250 x 3		437 000 061	22,00 €
UPK 10/3		1000 x 250 x 3		437 000 062	27,00 €
UPK 12/3		1200 x 250 x 3 (2-teilig)		437 000 063	31,00 €
UPK 14/3		1400 x 250 x 3 (2-teilig)		437 000 064	37,00 €

Discount group TT_800

Direct heating

Church Pew heater KBR and Insulation boards UPK



Church Pew heater KBR

Infrared pew heat-radiator KBR, switchable at 3 levels: 1/3, 2/3 and full power; through-wiring, connection points on both sides, feet and protective housing included, reflector is made of high-gloss anodized aluminium, unbreakable chromiumnickel heating unit. Colour: similar to RAL 1019, powder coating. The electronic temperature controller KRT is required for control (see p. 119). **Special dimensions and colours are available on request**

Insulation board UPK

to be installed between the pew bottom side and the heater, thickness: 6 mm, standard stipulated for pew heat-radiator KBS



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
KBR 6/25	0,25	600 x 100 x 90		437 000 021	283,00 €
KBR 8/35	0,35	800 x 100 x 90		438 000 022	308,00 €
KBR 10/45	0,45	1000 x 100 x 90		438 000 023	344,00 €
KBR 12/55	0,55	1200 x 100 x 90		440 000 024	380,00 €
KBR 14/65	0,65	1400 x 100 x 90		441 000 025	413,00 €

Discount group TT_800

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
UPK 6/6		600 x 250 x 6		437 000 070	35,00 €
UPK 8/6		800 x 250 x 6		438 000 071	48,00 €
UPK 10/6		1000 x 250 x 6		439 000 072	57,00 €
UPK 12/6		1200 x 250 x 6 (2-teilig)		440 000 073	69,00 €
UPK 14/6		1400 x 250 x 6 (2-teilig)		441 000 074	80,00 €

Discount group TT_800

Direct heating

Terrace radiators and short-wave infrared heaters



Patio heater

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

IP44

IR-Therm

The housings are made of anodized aluminum and generate durable pleasant radiant heat through infrared HeLeN gold tubes from Philips. Application in catering for indoor and outdoor areas such as ideal for smoking areas, patios or balconies, conservatories, hobby rooms, party rooms.

IR-THERM 150 mit **IP 24**

IR-THERM 100/165/200 mit **IP 67**

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TST 100	1,00	1080 x 140 x 45	3,30	620 600 100	461,00
TST 150	1,50	1580 x 140 x 45	4,40	620 600 190	570,00

Discount group TT_800

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
IR-THERM 150	1,50	510 x 95 x 125	2,30	620 020 150	361,00
IR-THERM 100	1,00	605 x 95 x 125	2,50	620 050 100	382,00
IR-THERM 165	1,65	605 x 95 x 125	2,50	620 050 165	398,00
IR-THERM 200	2,00	605 x 95 x 125	2,50	620 050 200	407,00

Discount group TT_800

Direct heating

Quarz radiator, frost guard



Quarz heater Q 1201

Two heating levels by pull switch, swiveling reflector, simple wall mounting, direct connection in the middle of radiator back, 230V~, protection class I. **IP 24**

Frost guard FW 501

For tempering and frost protection, for guest toilets, basement rooms, winter gardens etc., thermostat continuously variable, indicator lamp, cable with 230 V~ protective contact plug, protection class I packaging unit 12 pieces. Temperature of 5 °C - 16 °C
IP 21

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
FW 501	0,50	240 x 240 x 105	1,00	427 000 501	41,00
Q 1201	0,60/1,20	540 x 140 x 90	2,00	911 361 922	70,00
<i>Discount group TT_200</i>					

BATHROOM AND TOWEL RAIL HEATERS

WARMTH AND AESTHETICS COMBINED

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

Each of them has its own special advantage:

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

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

Create a warm bathroom and cosy towels!





Bathroom Radiator

Towel radiator series HR with heat retention tablets



Bathroom radiator HR RF

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). **IP 24.**

The TPF-ECO thermostat must be ordered separately for all RF models (see page 111).



Bathroom radiator HR DSM

As standard, in addition with DSM thermostat. The DSM thermostat can be controlled via the DSM interface (to be ordered separately, see page 111) via the Internet using the free LHZ APP. Separate temperatures and various time programs can be set for each room (see page 6-7).



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
HR 1200 RF	1,20	380 x 1240 x 70	35,00	450 112 953	1.075,00
HR 1200 DSM	1,20	380 x 1240 x 70	35,00	450 112 973	1.093,00

Discount group TT_300

Bathroom Towel Rail Heaters

Towel rail series HR, HR CHROME



Towel rail HR

Towel rail heater, remarkable for its beautiful shape and stable construction, color white similar to RAL 9010, thermo fluid frost-proof up to - 20 °C, 230 V~, protection class I, thermostat with LED, temperature range 20 °C – 60 °C adjustable in 10 °C steps, scratch-proof powder enameled, no visible weld seams, plug wire 1,5 m, **IP 54**

Towel rail HR chrom

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

IP 54

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
HR 40/80	0,30	400 x 775 x 85	8,80	427 010 408	247,00
HR 40/120	0,60	400 x 1175 x 85	15,60	427 010 412	320,00
HR 40/180	1,00	400 x 1775 x 85	23,70	427 010 418	475,00
HR 50/80	0,30	500 x 775 x 85	10,80	427 010 508	259,00
HR 50/120	0,60	500 x 1175 x 85	14,50	427 010 512	341,00
HR 50/180	1,00	500 x 1775 x 85	15,00	427 010 518	496,00
HR 60/120	0,60	600 x 1175 x 85	16,20	427 010 612	361,00
HR 60/180	1,00	600 x 1775 x 85	24,70	427 010 618	516,00

Discount group TT_300

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
HRC 50/80	0,25	500 x 775 x 85	11,00	427 010 702	430,00 €
HRC 50/120	0,40	500 x 1175 x 85	15,00	427 010 704	487,00 €
HRC 50/180	0,50	500 x 1775 x 85	22,00	427 010 705	663,00 €
HRC 60/120	0,40	600 x 1175 x 85	16,20	427 010 714	516,00 €
HRC 60/180	0,60	600 x 1775 x 85	16,20	427 010 716	620,00 €
HRC 75/80	0,35	755 x 775 x 85	15,00	427 010 733	482,00 €
HRC 75/120	0,50	755 x 1175 x 85	23,00	427 010 735	585,00 €
HRC 75/180	0,70	755 x 1775 x 85	28,00	427 010 737	775,00 €

Discount group TT_300

Bathroom dryer DREAM

HIGH-QUALITY GLASS FRONT WITH TOUCHSCREEN



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

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

▼ With touchscreen control panel



Bathroom heater

Towel dryer Dream



Towel dryer DREAM white, black, mirror

Smooth lines, round corners and a very thin profile characterize our new Dream series. Elegantly designed glass front, touchscreen control panel, convection and infrared heat radiation, LCD display, 5 operating modes (comfort, eco, frost protection, program, timer), integrated USB ports for charging your smartphones.

IP 24



Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
HR Dream white	1,5	520 x 1050 x 125	17,00	427 000 360	945,00
HR Dream black	1,5	520 x 1050 x 125	17,00	427 000 361	945,00
HR Dream mirror	1,5	520 x 1050 x 125	17,00	427 000 362	945,00

Discount group TT_300

Changes due to new legal directives from 2018 (Ecodesign Regulation (EU) 2015/1188) reserved.

INFRARED HEATER

FUNCTIONALITY MEETS **AESTHETICS!**

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

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

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

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

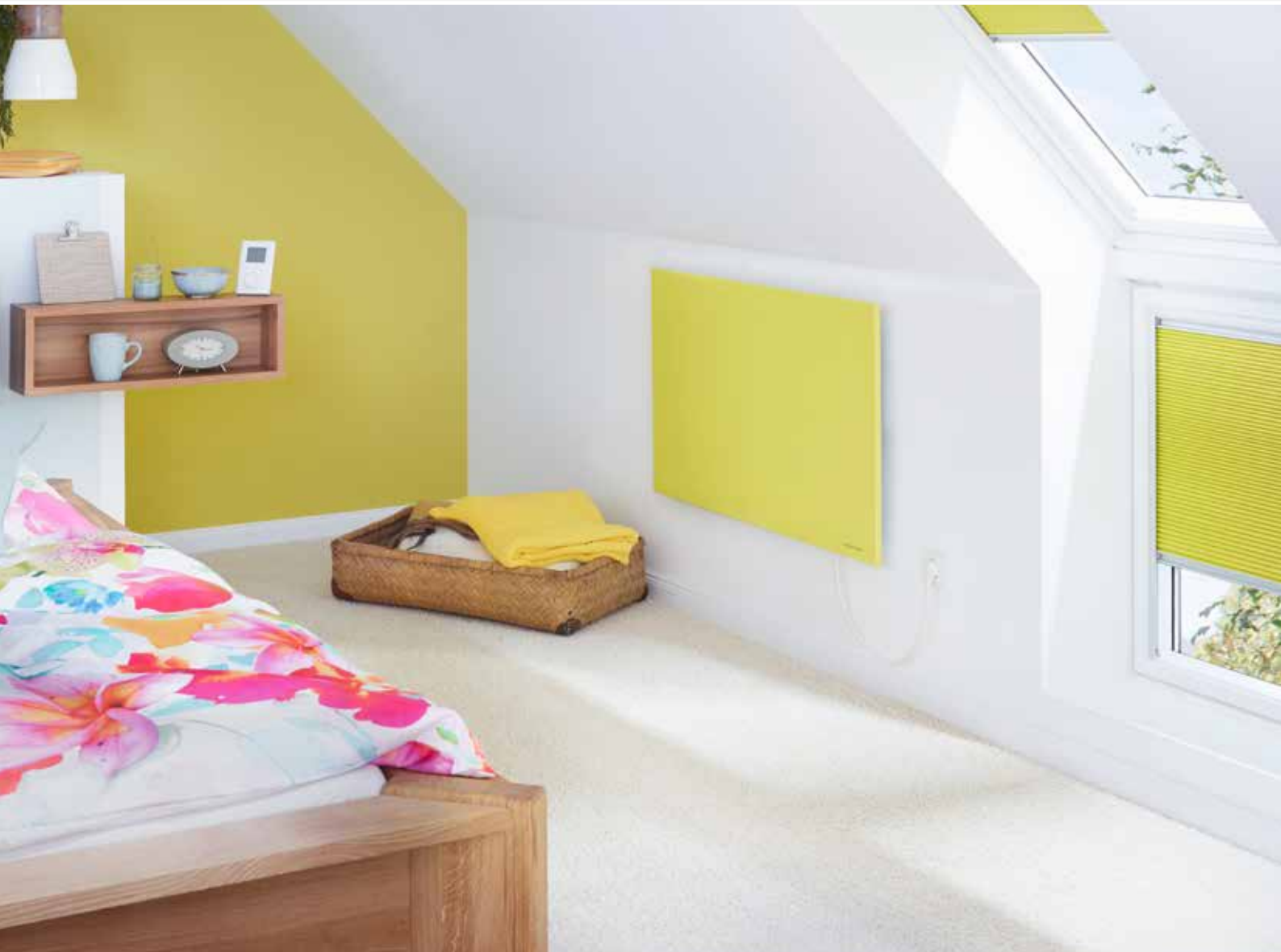




INFRARED
HEATING

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 frameless ISP are available in the following RAL colors.
Blue and yellow extra charge 80,00 €. Delivery 2-3 weeks. White in stock.

RAL 5015

RAL 1016

RAL 3003

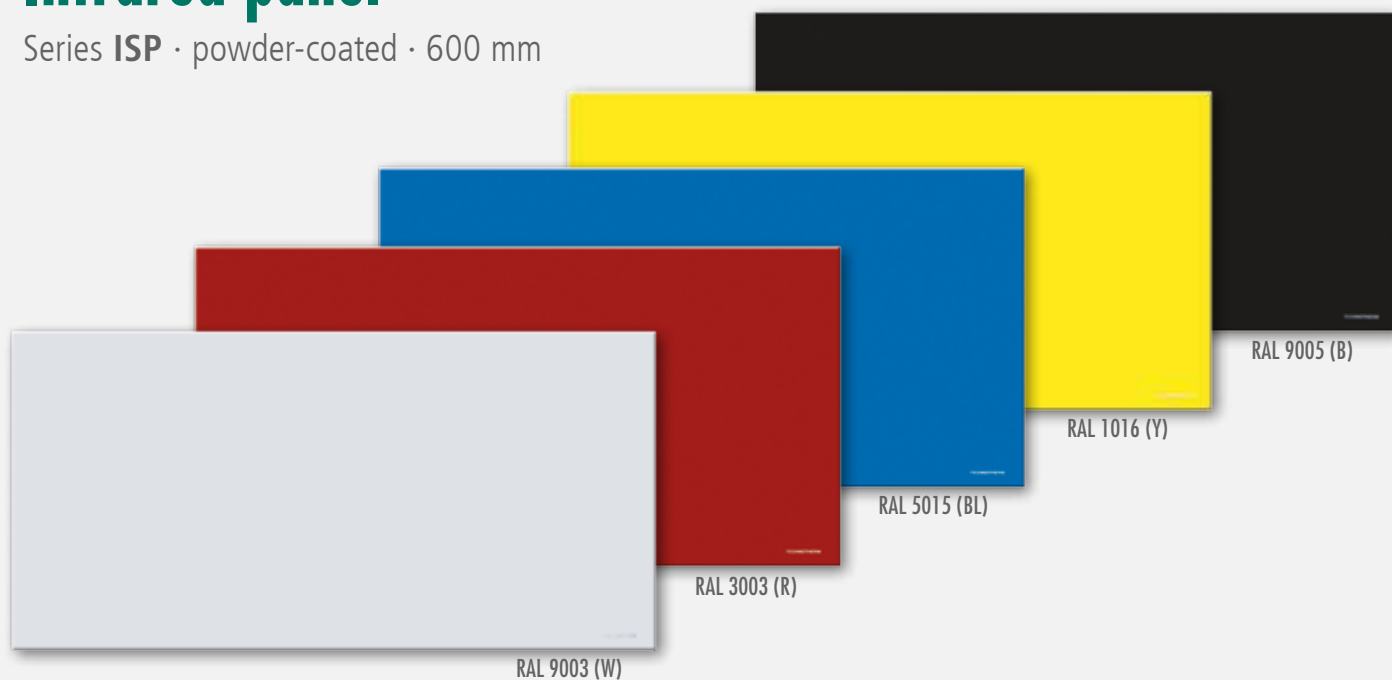
RAL 9003

RAL 9005



Infrared panel

Series ISP · powder-coated · 600 mm



ISP (height 600 mm)

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

Suitable for wall and ceiling mounting (see page 114).

ISP RF (height 600 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our 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 8-11). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 111).

For wall and ceiling mounting (see page 114).



Model white	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-W 350	0,35	600 x 600 x 15	8,70	880 100 350	287,00
ISP-W 450	0,45	900 x 600 x 15	9,50	880 100 450	322,00
ISP-W 600	0,60	1200 x 600 x 15	12,70	880 100 600	436,00
ISP-W 750	0,75	1200 x 600 x 15	12,70	880 100 750	444,00
ISP-W 950	0,95	1500 x 600 x 15	15,80	880 100 950	555,00
ISP-W 1200	1,20	1800 x 600 x 15	19,10	880 100 120	682,00
ISP-W 350 RF	0,35	600 x 600 x 15	8,70	880 101 350	329,00
ISP-W 450 RF	0,45	900 x 600 x 15	9,50	880 101 450	364,00
ISP-W 600 RF	0,60	1200 x 600 x 15	12,70	880 101 600	477,00
ISP-W 750 RF	0,75	1200 x 600 x 15	12,70	880 101 750	485,00
ISP-W 950 RF	0,95	1500 x 600 x 15	15,80	880 101 950	596,00
ISP-W 1200 RF	1,20	1800 x 600 x 15	19,10	880 101 120	723,00

Discount group TT_200

Model blue	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-BL 350	0,35	600 x 600 x 15	8,70	880 100 359	367,00
ISP-BL 450	0,45	900 x 600 x 15	9,50	880 100 459	402,00
ISP-BL 600	0,60	1200 x 600 x 15	12,70	880 100 609	516,00
ISP-BL 750	0,75	1200 x 600 x 15	12,70	880 100 759	524,00
ISP-BL 950	0,95	1500 x 600 x 15	15,80	880 100 959	635,00
ISP-BL 1200	1,20	1800 x 600 x 15	19,10	880 100 129	762,00
ISP-BL 350 RF	0,35	600 x 600 x 15	8,70	880 101 359	409,00
ISP-BL 450 RF	0,45	900 x 600 x 15	9,50	880 101 459	444,00
ISP-BL 600 RF	0,60	1200 x 600 x 15	12,70	880 101 609	557,00
ISP-BL 750 RF	0,75	1200 x 600 x 15	12,70	880 101 759	565,00
ISP-BL 950 RF	0,95	1500 x 600 x 15	15,80	880 101 959	676,00
ISP-BL 1200 RF	1,20	1800 x 600 x 15	19,10	880 101 129	803,00

Discount group TT_200

Model yellow	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-Y 350	0,35	600 x 600 x 15	8,70	880 100 358	367,00
ISP-Y 450	0,45	900 x 600 x 15	9,50	880 100 458	402,00
ISP-Y 600	0,60	1200 x 600 x 15	12,70	880 100 608	516,00
ISP-Y 750	0,75	1200 x 600 x 15	12,70	880 100 758	524,00
ISP-Y 950	0,95	1500 x 600 x 15	15,80	880 100 958	635,00
ISP-Y 1200	1,20	1800 x 600 x 15	19,10	880 100 128	762,00
ISP-Y 350 RF	0,35	600 x 600 x 15	8,70	880 101 358	409,00
ISP-Y 450 RF	0,45	900 x 600 x 15	9,50	880 101 458	444,00
ISP-Y 600 RF	0,60	1200 x 600 x 15	12,70	880 101 608	557,00
ISP-Y 750 RF	0,75	1200 x 600 x 15	12,70	880 101 758	565,00
ISP-Y 950 RF	0,95	1500 x 600 x 15	15,80	880 101 958	676,00
ISP-Y 1200 RF	1,20	1800 x 600 x 15	19,10	880 101 128	803,00

Discount group TT_200

Model red	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-R 350	0,35	600 x 600 x 15	8,70	880 100 352	287,00
ISP-R 450	0,45	900 x 600 x 15	9,50	880 100 452	322,00
ISP-R 600	0,60	1200 x 600 x 15	12,70	880 100 602	436,00
ISP-R 750	0,75	1200 x 600 x 15	12,70	880 100 752	444,00
ISP-R 950	0,95	1500 x 600 x 15	15,80	880 100 952	555,00
ISP-R 1200	1,20	1800 x 600 x 15	19,10	880 100 122	682,00
ISP-R 350 RF	0,35	600 x 600 x 15	8,70	880 101 352	329,00
ISP-R 450 RF	0,45	900 x 600 x 15	9,50	880 101 452	364,00
ISP-R 600 RF	0,60	1200 x 600 x 15	12,70	880 101 602	477,00
ISP-R 750 RF	0,75	1200 x 600 x 15	12,70	880 101 752	485,00
ISP-R 950 RF	0,95	1500 x 600 x 15	15,80	880 101 952	596,00
ISP-R 1200 RF	1,20	1800 x 600 x 15	19,10	880 101 122	723,00

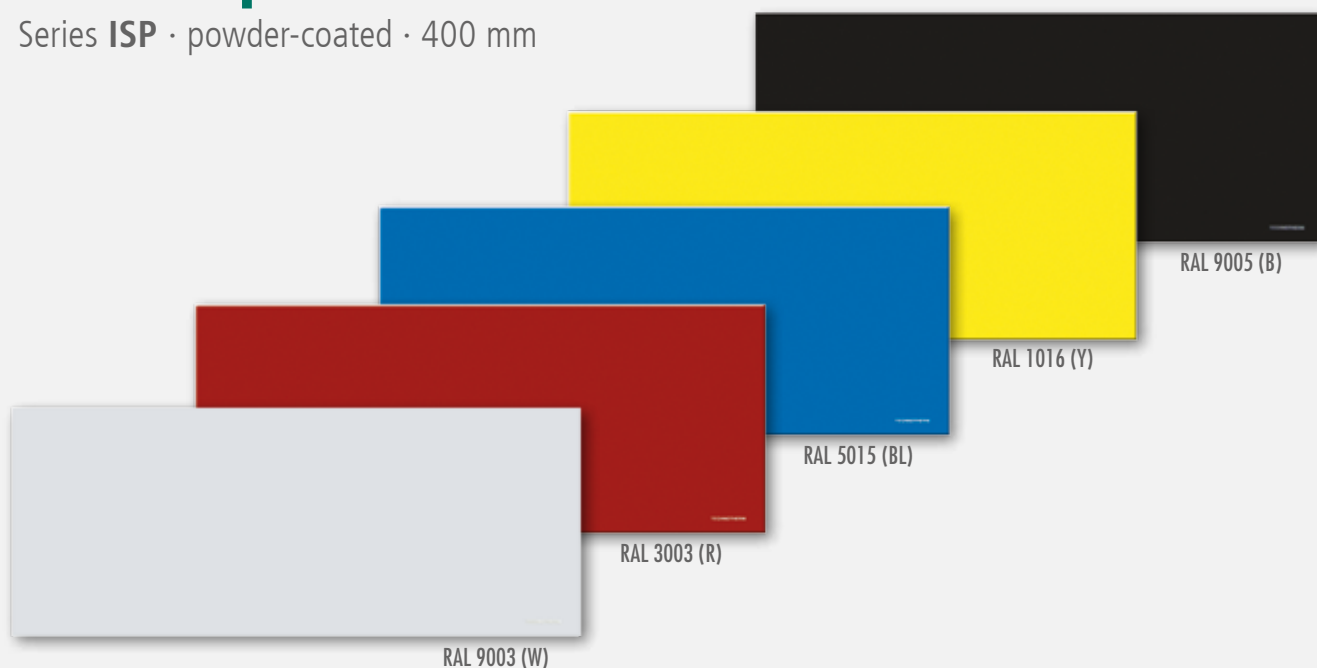
Discount group TT_200

Model black	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-B 350	0,35	600 x 600 x 15	8,70	880 100 351	287,00
ISP-B 450	0,45	900 x 600 x 15	9,50	880 100 451	322,00
ISP-B 600	0,60	1200 x 600 x 15	12,70	880 100 601	436,00
ISP-B 750	0,75	1200 x 600 x 15	12,70	880 100 751	444,00
ISP-B 950	0,95	1500 x 600 x 15	15,80	880 100 951	555,00
ISP-B 1200	1,20	1800 x 600 x 15	19,10	880 100 121	682,00
ISP-B 350 RF	0,35	600 x 600 x 15	8,70	880 101 351	329,00
ISP-B 450 RF	0,45	900 x 600 x 15	9,50	880 101 451	364,00
ISP-B 600 RF	0,60	1200 x 600 x 15	12,70	880 101 601	477,00
ISP-B 750 RF	0,75	1200 x 600 x 15	12,70	880 101 751	485,00
ISP-B 950 RF	0,95	1500 x 600 x 15	15,80	880 101 951	596,00
ISP-B 1200 RF	1,20	1800 x 600 x 15	19,10	880 101 121	723,00

Discount group TT_200

Infrared panel

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



ISP (height 400 mm)

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

Suitable for wall and ceiling mounting (see page 114).

ISP RF (height 400 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive). 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 8-11). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 111). **For wall and ceiling mounting (see page 114).**



Model white	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-W 351	0,35	900 x 400 x 15	8,70	880 110 350	275,00
ISP-W 501	0,50	1200 x 400 x 15	11,60	880 110 500	387,00
ISP-W 651	0,65	1500 x 400 x 15	14,50	880 110 650	493,00
ISP-W 851	0,85	1800 x 400 x 15	17,40	880 110 850	641,00
ISP-W 351 RF	0,35	900 x 400 x 15	8,70	880 111 350	318,00
ISP-W 501 RF	0,50	1200 x 400 x 15	11,60	880 111 500	428,00
ISP-W 651 RF	0,65	1500 x 400 x 15	14,50	880 111 650	534,00
ISP-W 851 RF	0,85	1800 x 400 x 15	17,40	880 111 850	682,00

Discount group TT_200

Model blue	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-BL 351	0,35	900 x 400 x 15	8,70	880 110 359	355,00
ISP-BL 501	0,50	1200 x 400 x 15	11,60	880 110 509	467,00
ISP-BL 651	0,65	1500 x 400 x 15	14,50	880 110 659	573,00
ISP-BL 851	0,85	1800 x 400 x 15	17,40	880 110 859	721,00
ISP-BL 351 RF	0,35	900 x 400 x 15	8,70	880 111 359	398,00
ISP-BL 501 RF	0,50	1200 x 400 x 15	11,60	880 111 509	508,00
ISP-BL 651 RF	0,65	1500 x 400 x 15	14,50	880 111 659	614,00
ISP-BL 851 RF	0,85	1800 x 400 x 15	17,40	880 111 859	762,00

Discount group TT_200

Model yellow	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-Y 351	0,35	900 x 400 x 15	8,70	880 110 358	355,00
ISP-Y 501	0,50	1200 x 400 x 15	11,60	880 110 508	467,00
ISP-Y 651	0,65	1500 x 400 x 15	14,50	880 110 658	573,00
ISP-Y 851	0,85	1800 x 400 x 15	17,40	880 110 85 8	721,00
ISP-Y 351 RF	0,35	900 x 400 x 15	8,70	880 111 358	398,00
ISP-Y 501 RF	0,50	1200 x 400 x 15	11,60	880 111 508	508,00
ISP-Y 651 RF	0,65	1500 x 400 x 15	14,50	880 111 658	614,00
ISP-Y 851 RF	0,85	1800 x 400 x 15	17,40	880 111 858	762,00

Discount group TT_200

Model red	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-R 351	0,35	900 x 400 x 15	8,70	880 110 352	275,00
ISP-R 501	0,50	1200 x 400 x 15	11,60	880 110 502	387,00
ISP-R 651	0,65	1500 x 400 x 15	14,50	880 110 652	493,00
ISP-R 851	0,85	1800 x 400 x 15	17,40	880 110 852	641,00
ISP-R 351 RF	0,35	900 x 400 x 15	8,70	880 111 352	318,00
ISP-R 501 RF	0,50	1200 x 400 x 15	11,60	880 111 502	428,00
ISP-R 651 RF	0,65	1500 x 400 x 15	14,50	880 111 652	534,00
ISP-R 851 RF	0,85	1800 x 400 x 15	17,40	880 111 852	682,00

Discount group TT_200

Model black	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-B 351	0,35	900 x 400 x 15	8,70	880 110 351	275,00
ISP-B 501	0,50	1200 x 400 x 15	11,60	880 110 501	387,00
ISP-B 651	0,65	1500 x 400 x 15	14,50	880 110 651	493,00
ISP-B 851	0,85	1800 x 400 x 15	17,40	880 110 851	641,00
ISP-B 351 RF	0,35	900 x 400 x 15	8,70	880 111 351	318,00
ISP-B 501 RF	0,50	1200 x 400 x 15	11,60	880 111 501	428,00
ISP-B 651 RF	0,65	1500 x 400 x 15	14,50	880 111 651	534,00
ISP-B 851 RF	0,85	1800 x 400 x 15	17,40	880 111 851	682,00

Discount group TT_200

Infrared panel ISP-Design

INFRARED PANEL WITH HIGH-QUALITY GLASS FRONT



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

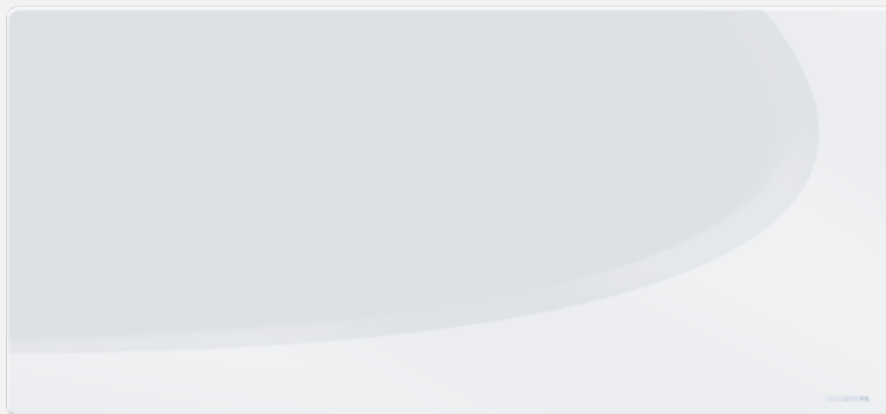
Its very slender and high-value appearance (only 20 mm) makes it an eye-catcher in your home.





Infrared panel

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



ISP Design white (height 690 mm)

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

Only suitable for wall mounting!

ISP Design white RF (height 690 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 111).

Only suitable for wall mounting!



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-W 450	0,45	1030 x 690 x 20	17,50	880 100 453	740,00
Design-W 600	0,60	1330 x 690 x 20	23,00	880 100 603	955,00
Design-W 750	0,75	1330 x 690 x 20	23,00	880 100 753	976,00
Design-W 950	0,95	1630 x 690 x 20	26,00	880 100 953	1.029,00

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-W 450 RF	0,45	1030 x 690 x 20	17,50	880 101 453	772,00
Design-W 600 RF	0,60	1330 x 690 x 20	23,00	880 101 603	996,00
Design-W 750 RF	0,75	1330 x 690 x 20	23,00	880 101 753	1.017,00
Design-W 950 RF	0,95	1630 x 690 x 20	26,00	880 101 953	1.069,00

Discount group TT_200

Infrared panel

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



ISP Design black (height 690 mm)

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

Only suitable for wall mounting!

ISP Design RF black (height 690 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 111).

Only suitable for wall mounting!



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-B 450	0,45	1030 x 690 x 20	17,50	880 100 454	740,00
Design-B 600	0,60	1330 x 690 x 20	23,00	880 100 604	955,00
Design-B 750	0,75	1330 x 690 x 20	23,00	880 100 754	976,00
Design-B 950	0,95	1630 x 690 x 20	26,00	880 100 954	1.029,00

Discount group TT_200

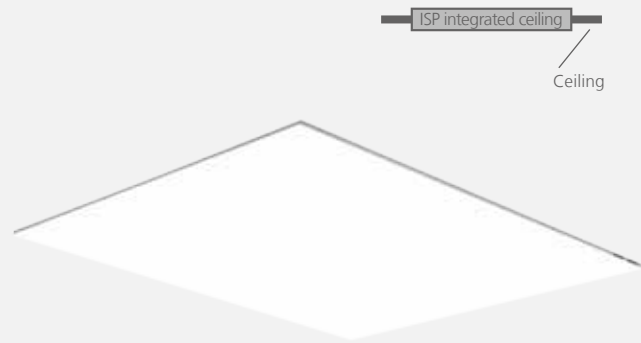
Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-B 450 RF	0,45	1030 x 690 x 20	17,50	880 101 454	772,00
Design-B 600 RF	0,60	1330 x 690 x 20	23,00	880 101 604	996,00
Design-B 750 RF	0,75	1330 x 690 x 20	23,00	880 101 754	1.017,00
Design-B 950 RF	0,95	1630 x 690 x 20	26,00	880 101 954	1.069,00

Discount group TT_200



Infrared panel

Series mirror & Infrared panel for integrated ceiling



ISP mirror RF (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 and TBF thermostat must be ordered separately for all RF models (see page 111).



Model mirror	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-S 350	0,35	650 x 650 x 20	10,20	880 100 357	549,00
Design-S 600	0,60	1250 x 650 x 20	19,00	880 100 607	879,00
Design-S 750	0,75	1250 x 650 x 20	19,00	880 100 757	899,00

Discount group TT_200

Model mirror	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-S 350 RF	0,35	650 x 650 x 20	10,20	880 101 357	581,00
Design-S 600 RF	0,60	1250 x 650 x 20	19,00	880 101 607	911,00
Design-S 750 RF	0,75	1250 x 650 x 20	19,00	880 101 757	931,00

Discount group TT_200

Model ceiling	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-K 350	0,35	595 x 595 x 30	4,60	880 100 356	316,00

Discount group TT_200

Infrared panel

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



ISP Design white (height 454 mm)

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

Only suitable for wall mounting!

ISP Design RF white (height 454 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 111).

Only suitable for wall mounting!



ISP Design black (height 454 mm)

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

Only suitable for wall mounting!

ISP Design RF black (height 454 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 111).

Only suitable for wall mounting!



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-W 351	0,35	1055 x 454 x 20	14,00	880 110 353	546,00 €
Design-W 501	0,50	1355 x 454 x 20	18,00	880 110 503	935,00 €
Design-W 351 RF	0,35	1055 x 454 x 20	14,00	880 111 353	578,00 €
Design-W 501 RF	0,50	1355 x 454 x 20	18,00	880 111 503	974,00 €

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
Design-B 351	0,35	1055 x 454 x 20	14,00	880 110 354	546,00 €
Design-B 501	0,50	1355 x 454 x 20	18,00	880 110 504	935,00 €
Design-B 351 RF	0,35	1055 x 454 x 20	14,00	880 111 354	578,00 €
Design-B 501 RF	0,50	1355 x 454 x 20	18,00	880 111 504	974,00 €

Discount group TT_200

TECHNOTHERM INTERNATIONAL

Company headquarter



Infrared panel with motifs

ISP PRINTED OR WITH INDIVIDUAL MOTIF



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

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

Infrared panel

Series **ISP** · with motifs · 600 mm



MG = Grain



MB = Beach

ISP Motiv Grain / Beach (height 600 mm)

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

Suitable for wall and ceiling mounting (see page 114).

ISP RF Motiv Grain / Beach (height 600 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 111). **Only suitable for wall mounting!**



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-MG 450	0,45	900 x 600 x 15	9,50	880 220 450	684,00
ISP-MG 750	0,75	1200 x 600 x 15	12,70	880 220 750	806,00
ISP-MG 950	0,95	1500 x 600 x 15	15,80	880 220 950	917,00
ISP-MG 450 RF	0,45	900 x 600 x 15	9,50	880 221 450	727,00
ISP-MG 750 RF	0,75	1200 x 600 x 15	12,70	880 221 750	848,00
ISP-MG 950 RF	0,95	1500 x 600 x 15	15,80	880 221 950	958,00

Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-MB 450	0,45	900 x 600 x 15	9,50	880 230 450	684,00
ISP-MB 750	0,75	1200 x 600 x 15	12,70	880 230 750	806,00
ISP-MB 950	0,95	1500 x 600 x 15	15,80	880 230 950	917,00
ISP-MB 450 RF	0,45	900 x 600 x 15	9,50	880 231 450	727,00
ISP-MB 750 RF	0,75	1200 x 600 x 15	12,70	880 231 750	848,00
ISP-MB 950 RF	0,95	1500 x 600 x 15	15,80	880 231 950	958,00

Discount group TT_200

Infrared panel

Series **ISP** · with motifs · 600 mm



C = City



M = Meadow

ISP Motiv City / Meadow (height 600 mm)

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

Suitable for wall and ceiling mounting (see page 114).

ISP RF Motiv City / Meadow (height 600 mm)

As standard, but with built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30 m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11).

The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 111-112).

Only suitable for wall mounting!



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-MC 450	0,45	900 x 600 x 15	9,50	880 200 450	684,00
ISP-MC 750	0,75	1200 x 600 x 15	12,70	880 200 750	806,00
ISP-MC 950	0,95	1500 x 600 x 15	15,80	880 200 950	917,00
ISP-MC 450 RF	0,45	900 x 600 x 15	9,50	880 201 450	727,00
ISP-MC 750 RF	0,75	1200 x 600 x 15	12,70	880 201 750	848,00
ISP-MC 950 RF	0,95	1500 x 600 x 15	15,80	880 201 950	958,00

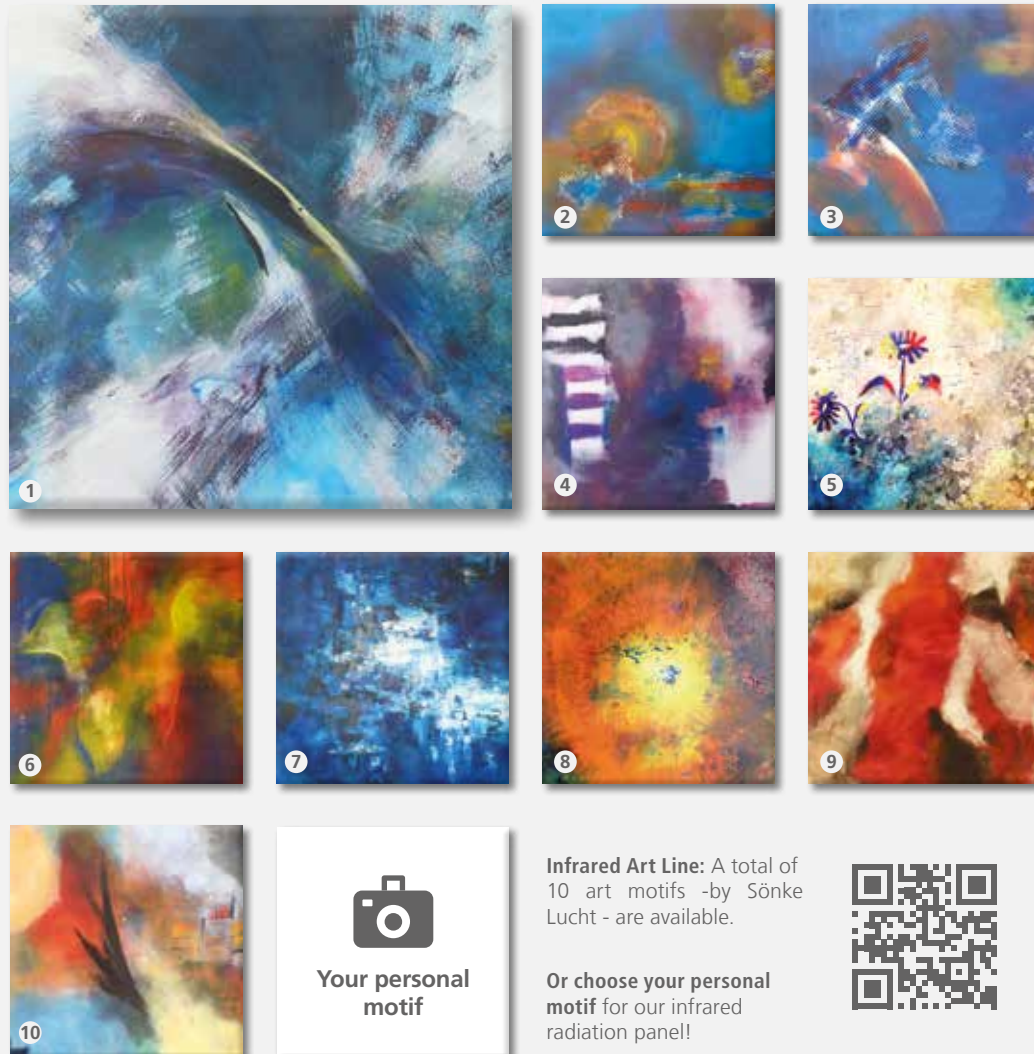
Discount group TT_200

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-MM 450	0,45	900 x 600 x 15	9,50	880 210 450	684,00
ISP-MM 750	0,75	1200 x 600 x 15	12,70	880 210 750	806,00
ISP-MM 950	0,95	1500 x 600 x 15	15,80	880 210 950	917,00
ISP-MM 450 RF	0,45	900 x 600 x 15	9,50	880 211 450	727,00
ISP-MM 750 RF	0,75	1200 x 600 x 15	12,70	880 211 750	848,00
ISP-MM 950 RF	0,95	1500 x 600 x 15	15,80	880 211 950	958,00

Discount group TT_200

Infrared panel Art Line

Series ISP with Art Print or own motif · 600 mm



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

Printed front panel, powder coating, with plug, frameless, wall distance 33 mm. The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 111). Suitable for wall and ceiling mounting (see page 114).

ISP with individual motive (height 600 mm)

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



Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
ISP-AL 1	0,45/0,75/0,95	900/1200/1500 x 600 x 15	9,50/12,70/15,80	880 240 001	684,00/806,00/917,00
ISP-AL 2	0,45/0,75/0,95	900/1200/1500 x 600 x 15	9,50/12,70/15,80	880 250 002	684,00/806,00/917,00
ISP-AL 3	0,45/0,75/0,95	900/1200/1500 x 600 x 15	9,50/12,70/15,80	880 260 003	684,00/806,00/917,00
ISP-AL 4	0,45/0,75/0,95	900/1200/1500 x 600 x 15	9,50/12,70/15,80	880 270 004	684,00/806,00/917,00
ISP-AL 5	0,45/0,75/0,95	900/1200/1500 x 600 x 15	9,50/12,70/15,80	880 280 005	684,00/806,00/917,00
ISP-AL 6	0,45/0,75/0,95	900/1200/1500 x 600 x 15	9,50/12,70/15,80	880 290 006	684,00/806,00/917,00
ISP-AL 7	0,45/0,75/0,95	900/1200/1500 x 600 x 15	9,50/12,70/15,80	880 300 007	684,00/806,00/917,00
ISP-AL 8	0,45/0,75/0,95	900/1200/1500 x 600 x 15	9,50/12,70/15,80	880 310 008	684,00/806,00/917,00
ISP-AL 9	0,45/0,75/0,95	900/1200/1500 x 600 x 15	9,50/12,70/15,80	880 320 009	684,00/806,00/917,00
ISP-AL 10	0,45/0,75/0,95	900/1200/1500 x 600 x 15	9,50/12,70/15,80	880 330 010	684,00/806,00/917,00

Discount group TT_200

UNDER-FLOOR HEATING

THE BEST HEATING COME **FROM BELOW!**

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

Available floor heaters from TECHNOTHERM are the following:

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

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





Heating mat Warm Floor WFK

COMFORTABLE HEAT COMES FROM BELOW



They cannot be seen but you can feel the warmth!

The incomparable thermal comfort of the cable heating systems from TECHNOTHERM.

Comfortable warmth without radiators - with an ideal temperature profile:

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



Under-floor heating

heating mat Warm-Floor WFK



Heating mat WFK 160 W/m²

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/m² Multifilar hot wire, teflon-isolation, coppergrounding conductor, Heating cable sewed on self-adhesive fabric, mat thickness approx. 3 mm, 1 cold wire 4 m length, VDE 0700-96, DIN EN 60335-2-96.

Model	Power [kW]	Dimensions W x H [cm]	Area m ²	Order number	Price [Euro]
WFK 0.5	0,08	50 x 100	0,50	143 200 405	85,00
WFK 1.0	0,16	50 x 200	1,00	143 200 410	108,00
WFK 1.5	0,24	50 x 300	1,50	143 200 415	143,00
WFK 2.0	0,32	50 x 400	2,00	143 200 420	168,00
WFK 2.5	0,40	50 x 500	2,50	143 200 425	203,00
WFK 3.0	0,48	50 x 600	3,00	143 200 430	239,00
WFK 4.0	0,64	50 x 800	4,00	143 200 440	286,00
WFK 5.0	0,80	50 x 1000	5,00	143 200 450	357,00
WFK 6.0	0,96	50 x 1200	6,00	143 200 460	392,00
WFK 7.0	1,12	50 x 1400	7,00	143 200 470	440,00
WFK 8.0	1,28	50 x 1600	8,00	143 200 480	499,00
WFK 9.0	1,44	50 x 1800	9,00	143 200 490	546,00
WFK 10.0	1,60	50 x 2000	10,00	143 200 499	605,00
WFK 12.0	1,92	50 x 2400	12,00	143 200 412	775,00
WFK 14.0	2,24	50 x 2800	14,00	143 200 414	906,00

Discount group TT_400

Under-floor heating

Heating mat Warm-Floor WFK-Set



Heating mat-set WFK 160 W/m²

Complete set for floor temperature control consisting of:

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



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

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

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

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

Model	Power [kW]	Dimensions W x H [cm]	Area m ²	Order number	Price [Euro]
WFK 0.5	0,08	50 x 100	0,50	143 200 805	241,00
WFK 1.0	0,16	50 x 200	1,00	143 200 810	265,00
WFK 1.5	0,24	50 x 300	1,50	143 200 815	300,00
WFK 2.0	0,32	50 x 400	2,00	143 200 820	324,00
WFK 2.5	0,40	50 x 500	2,50	143 200 825	359,00
WFK 3.0	0,48	50 x 600	3,00	143 200 830	395,00
WFK 4.0	0,64	50 x 800	4,00	143 200 840	443,00
WFK 5.0	0,80	50 x 1000	5,00	143 200 850	514,00
WFK 6.0	0,96	50 x 1200	6,00	143 200 860	550,00
WFK 7.0	1,12	50 x 1400	7,00	143 200 870	596,00
WFK 8.0	1,28	50 x 1600	8,00	143 200 880	656,00
WFK 9.0	1,44	50 x 1800	9,00	143 200 890	703,00
WFK 10.0	1,60	50 x 2000	10,00	143 200 899	763,00
WFK 12.0	1,92	50 x 2400	12,00	143 200 812	933,00
WFK 14.0	2,24	50 x 2800	14,00	143 200 814	1.062,0

Discount group TT_400

ROOF GUTTERING - ICE PREVENTION

PIPE HEATER TT HBS 20



With our pipe heaters, this will not happen!

Pipe heater

PIPE HEATER TT HBS 20



Pipe heater TT HBS 20

eaves-troughs and gutter pipes for protection against frost, extremely flexible due to elastic protective enclosure, price for 1 m.

The maximum length may not exceed 126 meters.

Model	Power [KW]	Dimensions W x H [mm]	Weight [kg/m]	Order number	Price [Euro]
HBS 20	0,02*	5,5 x 8,0	0,013	143 203 152	14,00

Discount group TT_400

NATURAL STONE HEATING

HEALTHY HEAT IN AN ELEGANT FORM!

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

Our natural stone heaters feature the following advantages:

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

Thus they harmonically fit into each ambience - whether they are made of noble marble, or with polished granite or as local Jura of yellow limestone. Moreover, the TECHNOTHERM natural stone 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 115).





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

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



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

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

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



Natural-stone heater

Series TTM-S Varios and Galaxis



Natural-stone heater Varios / Galaxis

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

IP 66

Use only with TRF-N (see page 115) external control and our Eco interface (see page 111).



Model Varios	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 508	659,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 608	793,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 708	859,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 808	926,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 908	1.035,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 108	1.117,00

Rabattgruppe TT_300

Model Galaxis	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 501	659,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 601	793,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 701	859,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 801	926,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 901	1.035,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 111	1.117,00

Rabattgruppe TT_300

Natural-stone heater

Series TTM-S Coffee Stone and Jura



Natural-stone heater Coffee Stone / 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 115) external control and our Eco interface (see page 111).



Model Coffe Stone	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 515	659,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 615	793,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 715	859,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 815	926,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 915	1.035,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 115	1.117,00

Rabattgruppe TT_300

Model Jura	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 503	659,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 603	793,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 703	859,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 803	926,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 903	1.035,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 113	1.117,00

Rabattgruppe TT_300

Natural-stone heater

Series TTM-S Sahara and Prinos



Natural-stone heater Sahara / Prinos

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

IP 66

Use only with TRF-N (see page 115) external control and our Eco interface (see page 111).



Model Sahara	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 502	659,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 602	793,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 702	859,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 802	926,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 902	1.035,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 122	1.117,00

Rabattgruppe TT_300

Model Prinos	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 506	671,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 606	808,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 706	876,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 806	942,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 906	1.051,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 106	1.129,00

Rabattgruppe TT_300

Natural-stone heater

Series TTM-S Sylvania Antik and Ruschitalachs



Natural-stone heater Sylvania Antik / Ruschitalachs

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

IP 66

Use only with TRF-N (see page 115) external control and our Eco interface (see page 111).



Model Sylvania Antik	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 507	671,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 607	808,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 707	876,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 807	942,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 907	1.051,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 107	1.129,00

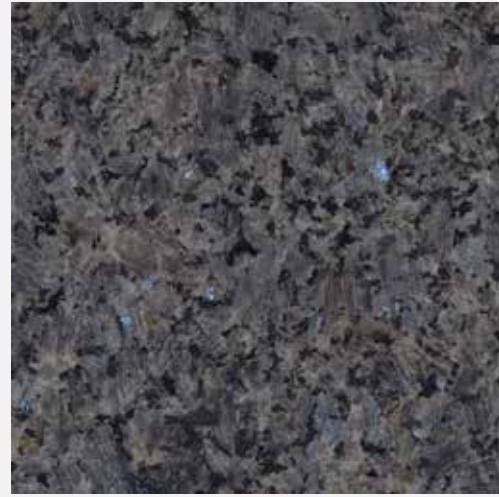
Rabattgruppe TT_300

Model Ruschitalachs	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 505	671,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 605	808,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 705	876,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 805	942,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 905	1.051,00

Rabattgruppe TT_300

Natural-stone heater

Series TTM-S Thassos and Labrador



Natural-stone heater Thassos / Labrador

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

IP 66

Use only with TRF-N (see page 115) external control and our Eco interface (see page 111).



Model Thassos	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 514	796,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 614	909,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 714	1.004,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 814	1.094,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 914	1.312,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 114	1.558,00

Rabattgruppe TT_300

Model Labrador	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 517	796,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 617	909,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 717	1.004,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 817	1.094,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 917	1.312,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 117	1.558,00

Rabattgruppe TT_300

Natural-stone heater

Series TTM-S Matrix and Atlantis



Natural-stone heater Matrix / Atlantis

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

IP 66

Use only with TRF-N (see page 115) external control and our Eco interface (see page 111).



Model Matrix	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 518	903,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 618	1.027,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 718	1.104,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 818	1.206,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 918	1.406,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 118	1.669,00

Rabattgruppe TT_300

Model Atlantis	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTM-S 350	0,35	600 x 400 x 30	21,00	870 000 513	903,00
TTM-S 650	0,65	1000 x 400 x 30	35,00	870 000 613	1.027,00
TTM-S 850	0,85	1000 x 500 x 30	44,00	870 000 713	1.104,00
TTM-S 1150	1,15	1000 x 600 x 30	52,00	870 000 813	1.206,00
TTM-S 1450	1,45	1250 x 600 x 30	62,00	870 000 913	1.406,00
TTM-S 1650	1,65	1350 x 600 x 30	69,00	870 000 413	1.669,00

Rabattgruppe TT_300

ELECTRICAL DYNAMIC STORAGE HEATING

WARMTH TO FEEL
GOOD EVERYWHERE!

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

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

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





ELECTRICAL DYNAMIC STORAGE HEATERS

Individual and versatile combinations

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

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

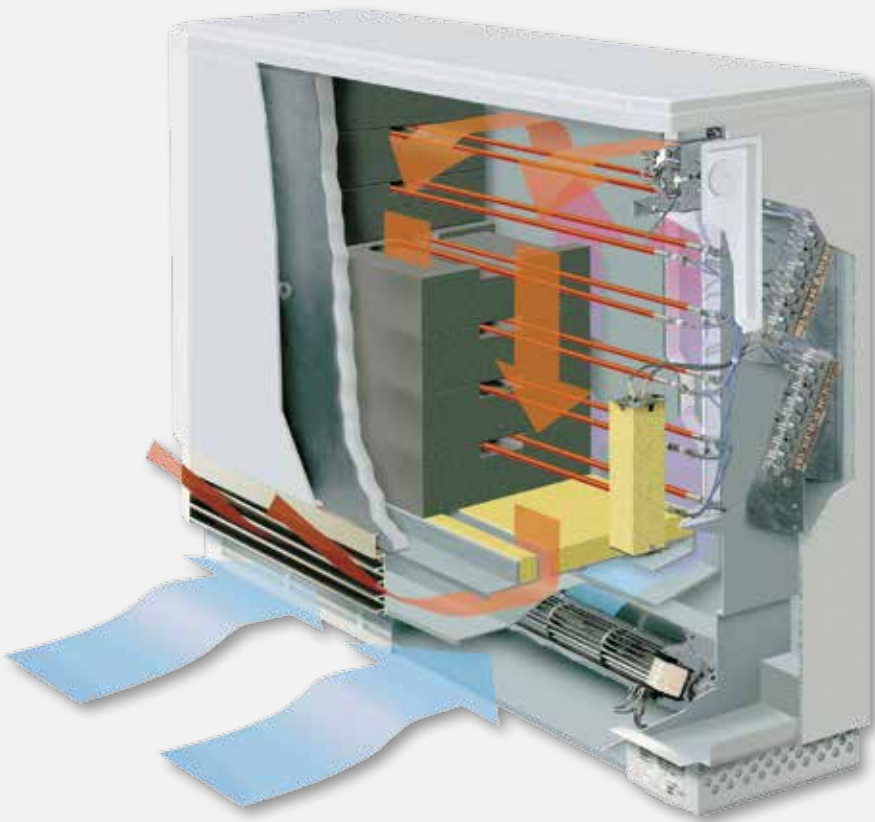
What are the components of a heat storage system?

A modern and efficient heat storage system consists of:

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

The required accessories can be found on pages 116-117





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

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



Electrical thermal storage heater

Series TTS



Series TTS with electronic charging regulator

sheet steel housing, colour RAL 9002, to be mounted on floors or on walls, power reduction is possible by changing connections, only 24.5 cm depth, with an electronic charging (AC/DC) 230 V, 0-80% ED DC 0,91-1,43 V. **Only use with external control e.g. TPF-Eco (see page 111) and the central control unit RS200 (see page 116).**

IP 21

Series TTS with electronic charging regulator and ECO-reveiver

Can be regulated via Internet! Similar to type TTS, however, with additionally built-in components: TRF (radio receiver) and IRT (thermal regulator). A radio transmitter TPF-Eco (not included) is additionally required (AC/DC) 230 V, 0-80% ED DC 0.91-1.43 V. **Only use with external control e.g. TPF-Eco (see page 111) and the central control unit RS200 (see page 116).**

IP 21



Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTS 200	2,00/1,68/1,34/1,00	580 x 660 x 245	128	852 020 005	1.128,00
TTS 300	3,00/2,76/2,52/2,25	760 x 660 x 245	183	852 030 005	1.352,00
TTS 400	4,00/3,68/3,36/3,00	940 x 660 x 245	238	852 040 005	1.482,00
TTS 510	5,00/4,60/4,20/3,75	940 x 660 x 245	238	852 053 005	1.674,00
TTS 610	6,00/5,52/5,04/4,50	1120 x 660 x 245	292	852 061 005	1.841,00
TTS 710	7,00/6,44/5,88/5,25	1300 x 660 x 245	347	852 071 005	2.139,00

Discount group TT_100

Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTS 200 Eco	2,00/1,68/1,34/1,00	580 x 660 x 245	128	855 020 005	1.223,00
TTS 300 Eco	3,00/2,76/2,52/2,25	760 x 660 x 245	183	855 030 005	1.447,00
TTS 400 Eco	4,00/3,68/3,36/3,00	940 x 660 x 245	238	855 040 005	1.577,00
TTS 510 Eco	5,00/4,60/4,20/3,75	940 x 660 x 245	238	855 053 005	1.769,00
TTS 610 Eco	6,00/5,52/5,04/4,50	1120 x 660 x 245	292	855 061 005	1.936,00
TTS 710 Eco	7,00/6,44/5,88/5,25	1300 x 660 x 245	347	855 071 005	2.234,00

Discount group TT_100

Electrical thermal storage heater

Series TTS-F



Series TTS-F with electronic charging regulator

sheet steel housing, colour RAL 9002, to be mounted on floors or on walls, power reduction is possible by changing connections, only 18,5 cm depth, with an electronic charging. (AC/DC) 230 V, 0-80% ED, DC 0,91-1,43 V. **Only use with external control e.g. TPF-Eco (see page 111) and the central control unit RS200 (see page 116).**
IP 21

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

Can be regulated via Internet! Similar to type TTS-F, however, with additionally built-in components: TRF (radio receiver) and IRT (thermal regulator). (AC/DC) 230 V, 0-80% ED DC 0.91-1.43 V. **Only use with external control e.g. TPF-Eco (see page 111) and the central control unit RS200 (see page 116).**
IP 21



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTS 170 F	1,70/1,14	580 x 660 x 185	100	852 317 005	1.107,00
TTS 260 F	2,55/1,71	760 x 660 x 185	141	852 326 005	1.345,00
TTS 340 F	3,40/3,13/2,86/2,55	940 x 660 x 185	184	852 334 005	1.646,00

Discount group TT_100

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTS 170 F Eco	1,70/1,14	580 x 660 x 185	100	855 317 005	1.201,00
TTS 260 F Eco	2,55/1,71	760 x 660 x 185	141	855 326 005	1.440,00
TTS 340 F Eco	3,40/3,13/2,86/2,55	940 x 660 x 185	184	855 334 005	1.741,00

Discount group TT_100

Electrical thermal storage heater

Series TTS EM and TTS-F EM



TTS EM

Type III 3/N/PE ~ 400 V 50Hz, Steel casing , colour: RAL 9002 Floor or wall mounting Reduction of power possible by means of internal reconnection. Just 24,5 cm deep.

IP 21

TTS-F EM

Type III 3/N/PE ~ 400 V 50Hz, Steel casing , colour: RAL 9002 Floor or wall mounting Reduction of power possible by means of internal reconnection. Just 18,5 cm deep.

IP 21



With these energy storage devices, you can use power from different sources, such your own solar power comfortably through our TT Energy manager in the form of heat. Our energy storage in the EM series fulfill this requirement.

For a detailed description, see pages 12-13



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTS 20 EM	1,68/1,34/1,0	580 x 660 x 245	128	854 020 005	1.074,00
TTS 30 EM	1,76/2,52/2,25	760 x 660 x 245	183	854 030 005	1.298,00
TTS 40 EM	4,00/3,68/3,36/3,00	940 x 660 x 245	238	854 040 005	1.431,00
TTS 51 EM	5,00/4,60/4,20/3,75	940 x 660 x 245	238	854 053 005	1.619,00
TTS 61 EM	6,00/5,52/5,04/4,50	1120 x 660 x 245	292	854 061 005	1.783,00
TTS 71 EM	7,00/6,44/5,88/5,25	1300 x 660 x 245	347	854 071 005	2.075,00

Discount group TT_100

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTS 17 F EM	1,70/1,14	580 x 660 x 185	100	854 317 005	1.052,00
TTS 26 F EM	2,55/1,71	760 x 660 x 185	141	854 326 005	1.285,00
TTS 34 F EM	3,40/3,13/2,86/2,55	940 x 660 x 185	184	854 334 005	1.577,00

Discount group TT_100



Electrical thermal storage heater

Series TTW



Series TTW with electronic charging regulator

Steel casing, colour: RAL 9002 Floor or wall mounting, with an electronic charging (AC/DC) 230 V, 0-80% ED, DC 0,91-1,43 V. **Only use with external control e.g. TPF-Eco (see page 111) and the central control unit RS200 (see page 116).**

IP 21

Series TTW with electronic charging regulator and ECO-receiver

Can be regulated via Internet! Similar to type TTW, however, with additionally built-in components: TRF (radio receiver) and IRT (thermal regulator). AC/DC 230 V, 0-80% ED DC 0.91-1.43 V. **Radio transmitter TPF-Eco (not included) is additionally required (see page. 115).**

IP 21



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTW 160	1,60	760 x 660 x 130	103	852 303 005	1.334,00
TTW 210	2,10	940 x 660 x 130	130	852 304 005	1.509,00
TTW 260	2,60	1120 x 660 x 130	156	852 305 005	1.718,00

Discount group TT_100

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTW 160 Eco	1,60	760 x 660 x 130	103	855 303 005	1.429,00
TTW 210 Eco	2,10	940 x 660 x 130	130	855 304 005	1.604,00
TTW 260 Eco	2,60	1120 x 660 x 130	156	855 305 005	1.813,00

Discount group TT_100

Electrical thermal storage heater

Series TTN-F



Series TTN-F with electronic charging regulator

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

IP 21

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

Can be regulated via Internet! Similar to type TTN -F, however, with additionally built-in components: TRF (radio receiver) and IRT (thermal regulator). A radio transmitter TPF-Eco (not included) is additionally required (AC/DC) 230 V, 0-80% ED DC 0.91-1.43 V. Radio transmitter TPF-Eco (not included) is additionally required (see page. 115).

IP 21



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTN 200 F	2,00/1,76/1,50/1,26/1,00	760 x 536 x 185	109	852 121 005	1.284,00
TTN 270 F	2,70/2,38/2,03/1,70/1,35	940 x 536 x 185	141	852 127 005	1.458,00

Discount group TT_100

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTN 200 F Eco	2,00/1,76/1,50/1,26/1,00	760 x 536 x 185	109	855 121 005	1.379,00
TTN 270 F Eco	2,70/2,38/2,03/1,70/1,35	940 x 536 x 185	141	855 127 005	1.553,00

Discount group TT_100

Electrical thermal storage heater

Series TTN



Series TTN with electronic charging regulator (TTN 400)

Sheet steel housing, colour RAL 9002, to be mounted on floors or on walls, power reduction is possible by changing connections, only 24.5 cm depth. with an electronic charging (AC/DC) 230 V, 0-80% ED, DC 0,91-1,43 V. **Only use with external control e.g. TPF-Eco (see page 111) and the central control unit RS200 (see page 116).**

IP 21

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

Can be regulated via Internet! Similar to type TTN, however, with additionally built-in components: TRF (radio receiver) and IRT (thermal regulator). A radio transmitter TPF-Eco (not included) is additionally required (AC/DC) 230 V, 0-80% ED DC 0.91-1.43 V. **Radio transmitter TPF-Eco (not included) is additionally required (see page 111).**

IP 21



Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
TTN 400	4,00/3,52/3,00/2,52/2,00	1120 x 536 x 245	215	852 340 005	1.620,00
TTN 400 Eco	4,00/3,52/3,00/2,52/2,00	1120 x 536 x 245	215	855 340 005	1.715,00

Discount group TT_100



Feel Good
through the warmth
created from
Electricity

ELECTRICAL
STORAGE HEATING

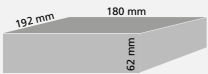


"Your demand is our passion!
Top-Quality produced in Germany!"


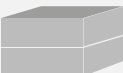
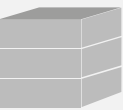
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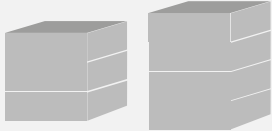
Stone packages Electrical thermal storage heater

For all TT series - see tables

Modell	TTS	TTN	TTS EM
	7 stones per column d.h. 2x 42 und 1x 43	5 stones per column d.h. 1x 42 und 1x 43	7 stones per column d.h. 2x 42 und 1x 43
Dimensions		Content	
		Pack 42	Pack 43
			

Modell	TTS-F	TTN-F	TTS-F EM
	7 stones per column d.h. 2x 44 und 1x 45	5 stones per column d.h. 2x 44 und 1x 45	7 stones per column d.h. 2x 44 und 1x 45
Dimensions		Content	
		Pack 44	Pack 45
			

Model	Power [KW]	Order number complete-unit	Order number casing	Order number stone-package	Amount stone-package
Stone package TTS					
TTS 200	2,00	852 020 005	852 520 005	850 900 042	4
				850 900 043	2
TTS 300	3,00	852 030 005	852 530 005	850 900 042	6
				850 900 043	3
TTS 400	4,00	852 040 005	852 540 005	850 900 042	8
				850 900 043	4
TTS 510	5,00	852 053 005	852 553 005	850 900 042	8
				850 900 043	4
TTS 610	6,00	852 061 005	852 561 005	850 900 042	10
				850 900 043	5
TTS 710	7,00	852 071 005	852 571 005	850 900 042	12
				850 900 043	6
Stone package TTS-F					
TTS 170 F	1,70	852 317 005	852 517 005	850 900 044	4
				850 900 045	2
TTS 260 F	2,55	852 326 005	852 526 005	850 900 044	6
				850 900 045	3
TTS 340 F	3,40	852 334 005	852 534 005	850 900 044	8
				850 900 045	4
Stone package TTW					
TTW 160	1,60	852 303 005	852 503 005	850 900 133	3
				850 900 134	3
TTW 210	2,10	852 304 005	852 504 005	850 900 133	4
				850 900 134	4
TTW 260	2,60	852 305 005	852 505 005	850 900 133	5
				850 900 134	5

Modell	TTW
	7 stones per column d.h. 1x 133 und 1x 134
Dimensions	Content
	Pack 133 Pack 134 

Model	Power [KW]	Order number complete-unit	Order number casing	Order number stone-package	Amount stone-package
Stone package TTS EM					
TTS 20 EM	2,00	854 020 005	854 025 005	850 900 042 850 900 043	4 2
TTS 30 EM	3,00	854 030 005	854 025 005	850 900 042 850 900 043	6 3
TTS 40 EM	4,00	854 040 005	854 540 005	850 900 042 850 900 043	8 4
TTS 51 EM	5,00	854 053 005	854 553 005	850 900 042 850 900 043	8 4
TTS 61 EM	6,00	854 061 005	854 561 005	850 900 042 850 900 043	10 5
TTS 71 EM	7,00	854 071 005	854 571 005	850 900 042 850 900 043	12 6
Stone package TTS F EM					
TTS 17 F EM	1,70	854 317 005	854 517 005	850 900 044 850 900 045	4 2
TTS 26 F EM	2,55	854 326 005	854 526 005	850 900 044 850 900 045	6 3
TTS 34 F EM	3,40	854 334 005	854 534 005	850 900 044 850 900 045	8 4
Stone package TTN					
TTN 400	4,00	852 340 005	852 541 005	850 900 042 850 900 043	5 5
Stone package TTN F					
TTN 200 F	2,00	852 121 005	850 521 005	850 900 044 850 900 045	3 3
TTN 270 F	2,70	852 127 005	850 527 005	850 900 044 850 900 045	4 4

HOT WATER HEATING

ECONOMIC AND WITH COMPLETE COMFORT!

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

Our water heating devices feature the following clear advantages:

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

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





HOT WATER HEATING

SMALL, COMPACT AND COST-EFFECTIVE



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

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

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



Hot water heating

Comfort water heater, small water heater



Comfort water heater CDE

heating coil system; Variable precise water temperature settings ranging from 30 °C to 60 °C; Can be used in combination with solar panels; LCD - display, with diagnostic mode Temperature + / -1 °C; air bubble detection, Easy installation; Three buttons for quick temperature selection; Key lock possible; Slimline housing case; Flexible connections, energy class A¹.

IP 24

KDO Slimline small water heater

KDO Slimline small water heater Bare wire heating system, 230 V~, maximum working pressure 6 bar, control light Over sink design includes mixing faucet and aerator. water connection 3/8", energy class A¹.

IP 25

Connection power 400 V~, energy class A¹

Energy class

A

B

A¹



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
CDE-L11-15 ¹ LCDSelect	11,00/13,50/15,00	447 x 235 x 109	3,80	201 800 099	465,00
CDE-L18-24 ¹ LCDSelect	18,00/21,00/24,00	447 x 235 x 109	3,80	201 800 199	516,00

Discount group TT_500

Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
KDO 3,5 SlimLine ¹	3,50	95 x 135 x 45	1,40	250 840 352	128,00
KDO 5,0 SlimLine ¹	5,00	95 x 135 x 45	1,40	250 840 502	138,00

Discount group TT_500

Hot water heating

small water heater



KDU Slimline small water heater

KDU Slimline small water heater Under sink design without mixing faucet water connection 3/8", 230 V~, 16 A, includes tempering faucet and aerator. energy class A¹.

IP 24

Connection power 400 V~, energy class A¹



Model	Power [kW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
KDU 3,5 SlimLine ¹	3,50	133 x 149 x 75	1,00	250 840 350	146,00
KDU 5,0 SlimLine ¹	5,00	133 x 149 x 75	1,00	250 840 500	154,00

Discount group TT_500

Changes due to new legal directives from 2018 (Ecodesign Regulation (EU) 2015/1188) reserved.

Accessories

Thermostate



1



2



3

Thermostat DSM ¹

The DSM thermostat can be controlled with the DSM interface (to be ordered separately, see page 111) via the Internet using the free LHZ APP.

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



Thermostat E ²

Manual thermostat for temperature control, easy operation, setting range in 7 steps from 0 ° C to 30 ° C, temperature sensor integrated in the side part, frost protection mode adjustable. IP 24

Radio receiver RF ³

Built-in radio receiver for control with an external thermostat e.g. TPF-ECO (exclusive) and our TYDOM APP. Necessary for control over the Internet, range within the building approx. 30m (depending on the type of construction), radio frequency 868 MHz (EN 300 200 standard), for ECO interface (see page 8-11). **The TPF-ECO and TBF thermostat must be ordered separately for all RF models (see page 111).**



Model	Thermostat E	Thermostat DSM	Receiver RF	TPF-ECO	KRT
TT-KS Products	x	x	x	x	
Convecto-Rad CHM	x	x	x	x	
VPS Design			x	x	
VPS		x	x	x	
CPH	x				
CVS	x				
Pew heater					x
Bathroom heater HR KSB	x	x	x	x	
ISP			x	x	
Natural stone heater			x	x	

Accessories

Direct heater



TPF-ECO radio thermostat ¹

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

DSM Interface ³

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

ECO-Interface 1.0 + 2.0 ²

You need this Eco interface to access your heating equipment from your terminal devices (smartphone or tablet) via Internet. The installation is automated and does not require previous knowledge. Installation Assistant will navigate you through the programme menus.

1 set consists of:

- 1 radio interface X3D + 1 cable RJ45
- to connect to the ADSL router
- Radio frequency: 868 MHz
- Radio range: up to 300 m in a free field
- 14 languages integrated
- Compatible with operating systems
Android from 2.3.3 and IOS5
- Voltage supply 230 V~

For a detailed description, see page 8-11

Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
① TPF-ECO Radio receiver		135 x 80 x 30	0,25	750 000 641	147,00
② ECO-Interface 1.0		100 x 205 x 30	0,40	750 000 640	206,00
② ECO-Interface 2.0		165 x 205 x 45	1,10	750 000 650	699,00
③ DSM Interface		100 x 70 x 30	0,20	911 950 101	179,00

Discount group TT_150

Accessories

Direct heater



Digital radio transmitter TBF ¹

digital display, 4 operating modes (comfort, lowering, antifreeze, auto, off), key Lock, Low battery indicator, Battery replacement at front, Combined with central control TZF, 2 batteries LR03 PI-regulation, protection class II

Outlet receiver TSF ²

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

IP 20

Radio receiver TRF ³

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

IP 44

Flush regulator UPR ⁴

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

Flush sensor UPF ⁵

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



Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
1 TBF		80 x 80 x 23	0,25	750 000 631	93,00
2 TSF		140 x 70 x 50	0,25	750 000 633	108,00
3 TRF		120 x 54 x 25	0,25	750 000 634	94,00
4 UPR				750 000 647	121,00
5 UPF				750 000 648	39,00

Discount group TT_150

Accessories

Safety engineering, direct heating, partial storage heating



Pack TYDOM Video ¹

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

Pack wireless alarm center ²

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

Wireless Micro-opening detector ³

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

Castors Partial storage heater KS ⁴

Set pair

Feet stands Partial storage heater KS ⁵

Set pair

Feet stands for direct heater VPS ⁶

Set pair

Feet stands for direct heater CPH und CVS ⁷

Set pair

Model	Weight [kg approx.]	Order number	Price [Euro]
1 PACK TYDOM Video		750 000 661	893,00
2 PACK WIRELESS PREPROGRAMMED ALARM CENTRAL		750 000 660	1.184,00
3 FUNK-MICRO-OPENING DETECTOR white		750 000 662	62,00
FUNK-MICRO-OPENING DETECTOR gray		750 000 663	62,00
FUNK-MICRO-OPENING DETECTOR brown		750 000 664	62,00

Discount group TT_900

Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
4 Castors KS		ca. 60 mm high		450 912 965	54,00
5 Feet stands KS		ca. 60 mm high		450 910 965	54,00

Discount group TT_200

Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
6 Feet stands VPS		ca. 60 mm high		429 900 200	23,00
7 Feet stands CPH / CVS		ca. 60 mm high		429 900 100	22,00

Discount group TT_200

Changes due to new legal directives from 2018 (Ecodesign Regulation (EU) 2015/1188) reserved.

Accessories

Infrared heater ISP



ISP ceiling mount ¹

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

ISP towel rail ²

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

Model	for model	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
1 IH-TT 1	ISP-350	364 x 510 x 29		880 100 010	49,00
IH-TT 2	ISP-450	664 x 510 x 29		880 100 020	49,00
IH-TT 3	ISP-600/750	964 x 510 x 29		880 100 030	49,00
IH-TT 4	ISP-950	1.264 x 510 x 29		880 100 040	49,00
IH-TT 5	ISP-1200	1.564 x 510 x 29		880 100 050	49,00
IH-TT 6	ISP-351	664 x 350 x 29		880 110 010	49,00
IH-TT 7	ISP-501	964 x 350 x 29		880 110 020	49,00
IH-TT 8	ISP-651	1.264 x 350 x 29		880 110 030	49,00
IH-TT 9	ISP-851	1.564 x 350 x 29		880 110 040	49,00

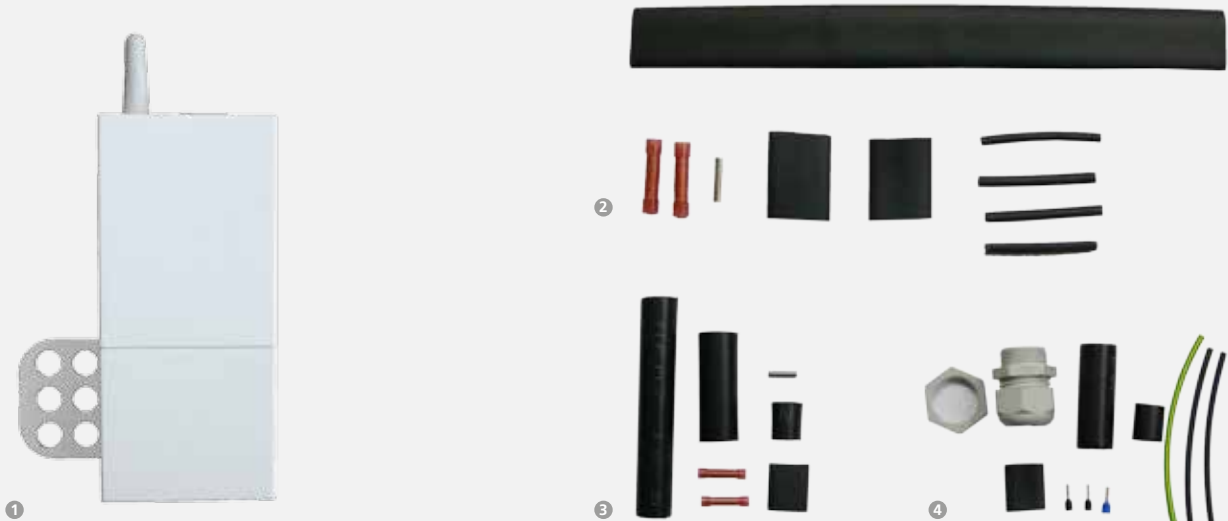
Discount group TT_900

Model	for model	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
2 IB-TT 3	ISP 300 mm lenght	300 x 40		880 110 000	113,00
IB-TT 5	ISP 500 mm lenght	500 x 40		880 100 000	128,00

Discount group TT_900

Accessories

Natural stone heater, Pipe heater HBS



Supplementary kit TRF-N ¹

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



HBS TT-RS Repair kit ²

Repair kit for Pipe heater HBS

HBS TT-VS Junction kit ³

HBS TT-VS Start- und End kit ⁴

Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
¹ TRF-N		120 x 54 x 25		75 0 000 635	113,00

Discount group TT_150

Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
² TT-RS Repair kit				143 203 918	21,00
³ TT-VS Junction kit				143 203 917	20,00
⁴ TT-VS Start- und End kit				143 203 919	20,00

Discount group TT_400

Changes due to new legal directives from 2018 (Ecodesign Regulation (EU) 2015/1188) reserved.

Accessories

Thermal storage heaters



Central control with RS 200 ¹ integrated clock work

Fully digitized central control with integrated clock and outside temperature dependent output contactor. It allows the regulation of electronic and thermomechanical charge controllers from storage heaters. The control signal is a clocked AC-voltage according to DIN 44574. Possible functions: backward-, spread-, or forward control. Setting range: 37 to 80 % ED. Max. control power: 270 W Signal Suppression day (SUT) incl. weather sensor

Group control GS 200 ²

For signal amplifying and adaption to the individual heating needs. By means of the setting E5, the source signal of the group control device is influenced and leads to higher or lower charge degree at the connected storage heaters (group- or domicilewise) Setting range: -30 to +10 % Max. control power: 160 W

Series TRT ³⁺⁴ electromechanical

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

IP 30

TRT 2:

- Switch „ON/OFF“
- Control LED for additional heating element

TRT 3:

- Switch „ON/OFF“
- Switch “Additional heating element”
- Control LED for additional heating element

Model	Power [KW]	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
1 RS 200		54 x 88 x 61	0,45	716 010 200	474,00
2 GS 200		54 x 88 x 61	0,35	716 010 202	223,00
3 TRT 2		75 x 75 x 26	0,10	750 000 602	46,00
4 TRT 3		75 x 75 x 26	0,10	750 000 603	51,00

Discount group TT_150

Accessories

Thermal storage heaters



Integrated ambient temperature regulator ¹

For storage heater series:
TTS, TTN, TTS-F, TTN-F, TTH, TTW
Integrated ambient temperature regulator consisting of:

- Capillary pipe regulator
- Switch for auxiliary heater
- Switch for additional heating element, ready with plug and wired on interchangeable hutch 5 °C to 30 °C, 16 A / 230 V~

Built-in room temperature regulator Electronic version ²

With built-in radio receiver RF ECO for control with an external thermostat (exclusive). Necessary to control via the Internet. Range in the building approx. 30 m (depending on construction). Radio frequency 868 MHz (standard EN 300 200)

Electronic Charge Controller Kit TTE 02 ³

The electronic charge controller kit TTE 02 offers a very accurate manual charge in correlation of weather and remaining heat. Appropriate for following control signals: AC: 37/40% ED, 68/72% ED, 80% ED PS, 80%ED NS, DC: 0,91- 1,43 V~ PS, 0,91-1,43 V~ NS, consists of: mounting guide,-board, potentiometer, thermal relay, sensor, wiring-set and bracket

Model	Series	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
1 IRT 24 Z	TTS, TTN		0,10	550 701 005	141,00
IRT 18 FZ	TTS-F, TTN-F		0,10	550 702 005	141,00
IRT 24 HZ	TTH		0,10	550 703 005	141,00
IRT 13 Z	TTW		0,10	550 704 005	141,00
2 IRF 24 ZE	IRF 24 ZE		0,10	550 710 005	169,00
IRF 18 FZE	IRF 18 FZ		0,10	550 712 005	169,00
IRF 24 HZE	IRF 24 HZE		0,10	550 713 005	169,00
IRF 13 ZE	IRF 13 ZE		0,10	550 714 005	169,00

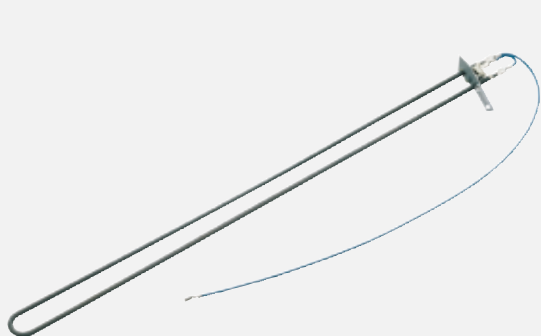
Discount group TT_150

Model	Series	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
3 TTE 02			0,5	900 020 133	191,00

Discount group TT_150

Accessories

Thermal storage heater



1



2

3 not illustrated

Electric storage heating Accessories Additional heating element ZH ¹

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

Fixing materials Wall brackets ²

for wall mounting on load bearing wall

Foot / complementary Wall brackets

11 bracket / wall brackets required for installation on drywalls
without picture

Model	Series	Power [KW]	Weight [kg approx.]	Order number	Price [Euro]
1 ZH - TT 2	TTS 20 / TTS 17 F / TTS 20 / TTS 30	0,75		550 801 000	71,00
ZH - TT 3	TTS 30 / TTS 26 F / TTN 20 F / TTH 55	1,00		550 802 000	74,00
ZH - TT 4	TTS 40 + 51 / TTS 34 F / TTN 30 / TTN 27 F	1,00		550 803 000	77,00
ZH - TT 5	TTS 61 / TTS 43 F / TTN 40 / TTN 33 F	1,50		550 804 000	85,00
ZH - TT 6	TTS 71 / TTS 51 F / TTN 50 / TTN 40 F	1,50		550 805 000	89,00
ZH - TTW 16	TTW 16	1,00		550 810 000	74,00
ZH - TTW 21	TTW 21	1,00		550 811 000	77,00
ZH - TTW 26	TTW 26	1,50		550 812 000	85,00
ZH - TTW 31	TTW 31	1,50		550 813 000	89,00

Discount group TT_150

Model	Series	Amount	Weight [kg approx.]	Order number	Price [Euro]
2 TTS-F	TTS 17/26 F	2 pice		550 001 005	53,00
	TTS 34-51 F	3 pice		550 001 005	53,00
TTN-F	TTN 20 F	2 pice		550 002 005	53,00
	TTN 27 F-40 F	3 pice		550 002 005	53,00
TTS	TTS 20/30/24/36	2 pice		550 000 005	53,00
	TTS 40-71	3 pice		550 000 005	53,00
TTN	TTN 30-50	3 pice		550 003 005	53,00
TTW	TTW 16	2 pice		550 005 005	53,00
TTW	TTW 21-31	3 pice		550 005 005	53,00
3 Foot complementary		1 pice		550 004 005	je 47,00

Discount group TT_150

Accessories

Thermal storage heater, Pew heater



1



2

3 not illustrated

Controlled electro heating ¹

Supplementary Kit

Underlay plates UPS

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

Electric storage heating Accessories thermal relay – set ²

Für TTS / TTS-F / TTN / TTH / TTW, 3-pole, controls the power release

Electronic thermo-regulator KRT for Pew heater

for pew heat-radiators KBR, with digital indicator; Thermo-regulator for a levitation rail to be installed into distributor boards and for switching to different levels of heating: 1/3, 2/3 and full power for careful approach to the pre-set temperature to protect the interior surfaces (anti-freeze function) Display of the set temperature and actual temperature to maintain the desired temperature. *without picture*



Model	Series	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
KRT 1-3	KBS and KBR			437 000 100	995,00

Discount group TT_800

Model	Series	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
1 Gesteuerte Elektroheizung			0,10	550 760 000	84,00
2 Thermorelais – Bausatz			0,10	550 751 000	63,00

Discount group TT_150

Model	Series	Dimensions W x H x D [mm]	Weight [kg approx.]	Order number	Price [Euro]
UPS 20	TTS 20/24	500 x 10 x 190	1,2	550 101 000	39,00
UPS 30	TTS 30/36/TTH 55	680 x 10 x 190	1,6	550 102 000	42,00
UPS 40	TTS 40/51/TTN 30	860 x 10 x 190	2,0	550 103 000	52,00
UPS 50	TTS 61/TTN 40	1040 x 10 x 190	2,4	550 104 000	55,00
UPS 60	TTS 71/TTN 50	1220 x 10 x 190	2,8	550 105 000	60,00

Discount group TT_150

Changes due to new legal directives from 2018 (Ecodesign Regulation (EU) 2015/1188) reserved.

Discount group

TT 100 – Thermal storage heater

TT 150 – Controller, interface, receiver and control unit

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

TT 250 – Direct heating part II

TT 300 – Bath heating, natural stone heating

TT 400 – Underfloor heating, pipe heating

TT 500 – Hot water heater

TT 800 – Direct heating part III

TT 900 – Security technology, accessories

Taste patterns and usage patterns

Usage patterns:

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

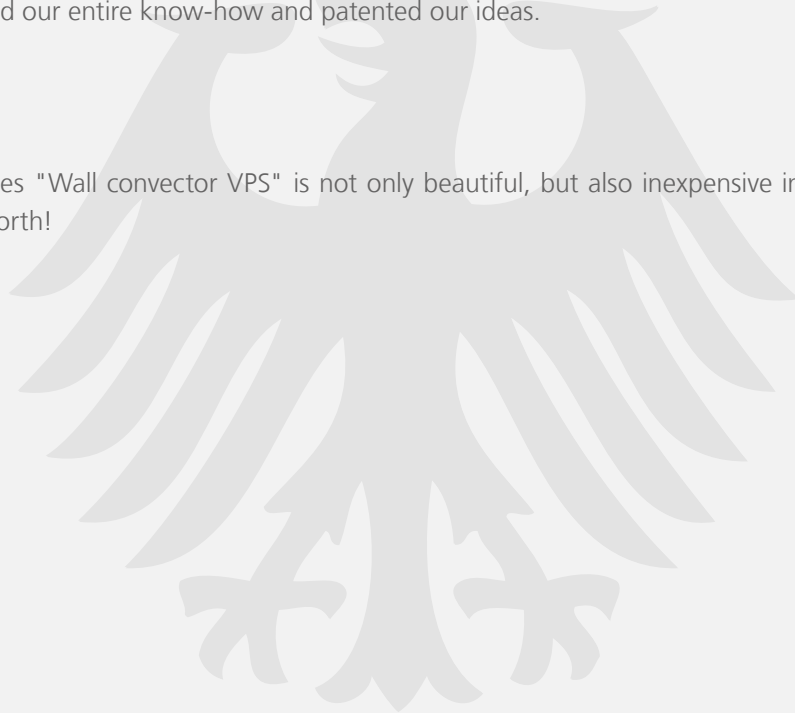
In our range of infrared heating systems, we have further usage patterns. The unique heat transfer from the heating conductor distinguishes these devices and stands for our high quality requirements.

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



Design:

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



Declaration of conformity



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



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



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



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



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



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

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

Bei allen Geschäften mit Wiederverkäufern oder gewerblichen Abnehmern gelten ausschließlic h diese Bedingungen

I. Allgemeine Bestimmungen

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

II. Preise und Zahlungsbedingungen

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

III. Eigentumsvorbehalt

- Die Lieferungen bleiben das Eigentum des Lieferers bis zur Begleichung von sämtlichen Forderungen, die dem Lieferer gegen den Käufer zustehen, gleich aus welchem Rechtsgrund sie entstanden sind. Bei laufender Rechnung gilt das vorbehaltene Eigentum als Sicherung für die Saldoforderung des Lieferers.
- Der Käufer ist zum Gebrauch und zur Weiterveräußerung von Vorbehaltsware im ordnungsgemäßen Geschäftsgang befugt. Der Käufer tritt hiermit alle Ansprüche, die aus der Weiterveräußerung erwachsen sind, schon jetzt an den Lieferer ab. Die Abtretung nimmt der Lieferer hiermit an. Dies gilt auch für Waren, die verarbeitet oder verbunden wurden. Nimmt der Käufer die Forderung aus einer Weiterveräußerung eines Liefergegenstandes vom Lieferer in ein mit seinem Kunden bestehendes 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/verbundenen/vermischten Gegenständen zur Zeit der Verarbeitung, Verbindung oder Vermischung. Der Käufer verwahrt das so entstandene Alleineigentum oder Miteigentum für den Lieferer. Erfolgt die Vermischung oder Verbindung in der Weise, dass die Sache des Käufers als Hauptsache anzusehen ist, so gilt als vereinbart, dass der Käufer das anteilige Miteigentum an den Lieferer überträgt und die Sache für diesen verwahrt.
- Der Lieferer verpflichtet sich, die dem Lieferer zustehenden Sicherheiten auf Verlangen des Käufers insoweit freizugeben, als der realisierbare Wert der Sicherheiten des Lieferers die zu sichernde Forderung um mehr als 20 % übersteigt; die Auswahl der freizugebenden Sicherheiten obliegt dem Lieferer.

IV. Fristen für Lieferungen; Verzug

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

V. Gefahübergang

- 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:
 - alle Erd-, Bau- und sonstigen branchenfremden Nebenarbeiten einschließlich der dazu benötigten Fach- und Hilfskräfte, Baustoffe und Werkzeuge,
 - die zur Montage und Inbetriebsetzung erforderlichen Bedarfsgegenstände und -stoffe, wie Gerüste, Hebezeuge und andere Vorrichtungen, Brennstoffe und Schmiermittel,
 - Energie und Wasser an der Verwendungsstelle einschließlich der Anschlüsse, Heizung und Beleuchtung,
- bei der Montagestelle für die Aufbewahrung der Maschinenteile, Apparaturen, Materialien, Werkzeuge usw. genügend große, geeignete, trockene und 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,
- 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 Bestellungen und Gegenstände an der Aufstellungs- oder Montagestelle befinden und alle Vorarbeiten vor Beginn des Aufbaues so weit fortgeschritten sein, dass die Aufstellung oder Montage vereinbarungsgemäß begonnen und ohne Unterbrechung durchgeführt werden kann. Anfahrwege und der Aufstellungs- oder Montageplatz müssen geebnet und geräumt sein.

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

VII. Entgegennahme

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

VIII. Sachmängel

Für Sachmängel haftet der Lieferer wie folgt:

- Alle diejenigen Teile oder Leistungen sind nach Wahl des Lieferers unentgeltlich nachzubessern, neu zu liefern oder neu zu erbringen, die innerhalb der Verjährungsfrist – ohne Rücksicht auf die Betriebsdauer – einen Sachmangel aufweisen, sofern dessen Ursache bereits im Zeitpunkt des Gefahübergangs vorlag.
- Sachmängelansprüche verjähren in 12 Monaten. Dies gilt nicht, soweit das Gesetz gemäß §§ 438 Abs. 1 Nr. 2 (Bauwerke und Sachen für Bauwerke), 479 Abs. 1 (Rückgriffsanspruch) und 634a Abs. 1 Nr. 2 (Baumängel) BGB längere Fristen 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 berechnete Ansprüche erhebt, haftet der Lieferer gegenüber dem Besteller innerhalb der in Art. VIII Nr. 2 bestimmten Frist wie folgt:
 - Der Lieferer wird nach seiner Wahl und auf seine Kosten für die betreffenden Lieferungen entweder ein Nutzungsrecht erwirken, sie so ändern, dass das Schutzrecht nicht verletzt wird, oder austauschen. Ist dies dem Lieferer nicht zu angemessenen Bedingungen möglich, stehen dem Besteller die gesetzlichen Rücktritts- oder Minderungsrechte zu.
 - Die Pflicht des Lieferers zur Leistung von Schadensersatz richtet sich nach Art. XI.
 - Die vorstehend genannten Verpflichtungen des Lieferers bestehen nur, soweit der Besteller den Lieferer über die vom Dritten geltend gemachten Ansprüche unverzüglich schriftlich verständigt, eine Verletzung nicht anerkennt und dem Lieferer alle Abwehrmaßnahmen und Vergleichsverhandlungen vorbehalten bleiben. Stellt der Besteller die Nutzung der Lieferung aus Schadensminderungs- oder sonstigen wichtigen Gründen ein, ist er verpflichtet, den Dritten darauf hinzuweisen, dass mit der NutzungsEinstellung keine Anerkennung seiner Schutzrechtsverletzung verbunden ist.

- Ansprüche des Bestellers sind ausgeschlossen, soweit er die Schutzrechtsverletzung zu vertreten hat.
- Ansprüche des Bestellers sind ferner ausgeschlossen, soweit die Schutzrechtsverletzung durch spezielle Vorgaben des Bestellers, durch eine vom Lieferer nicht voraussehbare Anwendung oder dadurch verursacht wird, dass die Lieferung vom Besteller verändert oder zusammen mit nicht vom Lieferer gelieferten Produkten eingesetzt wird.
- Im Falle von Schutzrechtsverletzungen gelten für die in Nr. 1 a) geregelten Ansprüche des Bestellers im Übrigen die Bestimmungen des Art. VIII Nr. 4, 5 und 9 entsprechend.
- Bei Vorliegen sonstiger Rechtsmängel gelten die Bestimmungen des Art. VIII entsprechend.
- Weitergehende oder andere als die in diesem Art. IX geregelten Ansprüche des Bestellers gegen den Lieferer und dessen Erfüllungsgehilfen wegen eines Rechtsmangels sind ausgeschlossen.

X. Unmöglichkeit; Vertragsanpassung

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

XI. Sonstige Schadensersatzansprüche

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

XII. Gerichtsstand und anwendbares Recht

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

XIII. Verbindlichkeit des Vertrages

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

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