

Installation and Operating Instructions

Electrical Partial Thermal-Storage Heater Feet/Castors



Types

- TTKS S
- TTKS S LT
- TTKS N
- TTKS H



Ecological Design Directive 2015/1188:

Feet/castors:

This product is only suitable for well-insulated rooms
or for occasional use.



Please read attentively and keep in a safe place!

Subject to alterations!

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Issue 04/18

1. General information about our surface storage heaters

With our variety of electric surface storage heaters, you can find the right solution for your needs in any spatial situation. The TECHNOTHERM partial thermal-storage heaters are available as additional or transitional heating for all rooms in the living area, with the exception of the special cases stated in the safety instructions. They are designed for continuous operation. Prior to dispatch, all our products undergo an extensive function, safety and quality test. We guarantee a constructive design complying with all currently applicable international, European and German safety standards and rules. You can see this in the labelling of our products with the well-known certification marks: "TÜV-GS", "SLG-GS", "Keymark" and "CE". Our heaters are evaluated in accordance with the internationally applicable IEC-regulations. The manufacture of our heaters is constantly supervised by a state-accredited test centre.

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This heater can be used by children aged from 8 years and above and by physically, sensory or mentally restricted persons if they are supervised or given instructions on safe use and understand the hazards involved as it does not require any experience or knowledge.

This device is not a toy for children to play with! **Cleaning and user maintenance shall not be carried out by children without supervision.** The use of heat radiators is to be given a particular duty of care by supervisors.

Children under the age of 3 are to be kept away unless they are continually supervised. Children between the age of 3 and 8 are only allowed to switch the heater on or off if they are supervised or given instructions on safe use and understand the hazards involved, provided that it has been placed or installed in its intended normal operating position. Children between the age of 3 and 8 shall not plug in, regulate and clean the heater or perform user maintenance.

Caution: Some parts of the product can become very hot and cause burns. Pay particular attention when children and vulnerable people are present. (With the exception of LT series - see separate Instructions!)

2. Use with an internal temperature controller (built-in on the lateral side of the device)

As soon as the heater is completely assembled and installed by an authorized electrician, you can start using it.

Please turn the control knob to the desired room temperature (for example, temperature 21°C during the day). Now the electrical surface storage heater is switched on and heats automatically. When the set temperature is reached, the power supply will be interrupted. However, the heater will still radiate heat stored in the ceramic storage core. As soon as the room temperature drops, the room thermostat switches ON the heater again. This process is repeated continuously, as long as the heater is at the operation mode. If you are going to be absent for a longer period of time, please set the temperature to a lower level to save energy. If you turn the control knob completely to the left, the heater will be switched OFF.

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2.2 Installation with internal temperature controller (built-in to the side of the unit)

The desired room temperature is regulated by a built-in thermostat.

To do this, set the control knob to the right position as shown by the red light:

Position 1 : about 5°C (frost protection)

Position 4 : about 20°C

Position 6 : about 30°C

A light indicator shows the warming-up status of the heater.



Technical Datas

- ° easy to use
- ° 7 power settings
- 0 = off
- 6 levels from 5°C till 30°C
- ° temperature sensor is integrated in the side
- ° frost protection mode

The temperature sensor belonging to the device is installed at the bottom of its lateral side. Its settings are to be made by your plumber.



ON and heating



ON but not heating



OFF

3. Important safety instructions

3.1 Surface thermal-storage heaters for dry rooms

- The heaters should be only installed in accordance with the applicable provisions of DIN VDE 0100. In case of an improper function, disconnect the heater from the mains supply. Report the case to our customer service department as soon as possible.
- To avoid a fire hazard, keep the following safety distances when mounting the heater:

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From the each side wall of the heater to any masonry:	5 cm
From the each side wall of the heater to flammable materials:	10 cm
Distance from the heater to the floor:	8 cm
Distance from the upper edge of the heater to the building components or covers (e.g. window sills):	flammable 15 cm non-flammable 10 cm

3.2 Bathroom heaters

- Statutory provisions applicable for use of electrical equipment in rooms with tubs or showers are much stricter than in dry rooms. In addition to the already above-mentioned provisions of DIN VDE 0100, they have also comply with VDE 0100-701. Our bathroom radiators must be installed exclusively by an authorized and certified electrician. All the instructions given in 3.1 shall be adhered to in full. Exception: Our bathroom heaters are additionally protected against expected moisture.

4. Technical data:

Our surface storage heaters are designed for protection class I and a mains voltage of 230V, 50Hz. For all heater types listed in the table, internal electronic temperature regulators or remote-controlled room temperature regulators are optionally available. Our various products of 34 cm or 63 cm overall height are available in the IP24 version. All other heaters have protection class IP20. Please see the information given on the nameplate of the heater.

Type series	Power [Watt]	Dimensions [cm]	Protection class	Special features
TT-KS 500 S	500	38 x 63 x 7	IP 20	
TT-KS 1000 S	1000	68 x 63 x 7	IP 20	
TT-KS 1200 S	1200	68 x 63 x 7	IP 20	
TT-KS 1500 S	1500	98 x 63 x 7	IP 20	
TT-KS 1800 S	1800	98 x 63 x 7	IP 20	
TT-KS 2000 S	2000	128 x 63 x 7	IP 20	
TT-KS 2400 S	2400	128 x 63 x 7	IP 20	

Type series	Power [Watt]	Dimensions [cm]	Protection class	Special features
TT-KS 2800 S	2800	158 x 63 x 7	IP 20	
TT-KS 700 S LT*	700	68 x 63 x 7	IP 20	about 60°C surface temperature
TT-KS 1200 S LT*	1200	98 x 63 x 7	IP 20	about 60°C surface temperature
TT-KS 1500 S LT*	1500	128 x 63 x 7	IP 20	about 60°C surface temperature
TT-KS 1800 S LT*	1800	158 x 63 x 7	IP 20	about 60°C surface temperature
TT-KS 500 S X4	500	38 x 63 x 7	IP 24	
TT-KS 1000 S X4	1000	68 x 63 x 7	IP 24	
TT-KS 1200 S X4	1200	68 x 63 x 7	IP 24	
TT-KS 1500 S X4	1500	98 x 63 x 7	IP 24	
TT-KS 800 N	800	68 x 34 x 7	IP 20	
TT-KS 1200 N	1200	98 x 34 x 7	IP 20	
TT-KS 1600 N	1600	128 x 34 x 7	IP 20	
TT-KS 2000 N	2000	158 x 34 x 7	IP 20	
TT-KS 800 N X4	800	68 x 34 x 7	IP 24	
TT-KS 1200 N X4	1200	98 x 34 x 7	IP 24	
TT-KS 1200 H	1200	38 x 124 x 7	IP 20	
TT-KS 1800 H	1800	55 x 124 x 7	IP 20	
TT-KS 2200 H	2200	68 x 124 x 7	IP 20	
TT-KS 1200 Hx4	1200	38 x 124 x 7	IP 24	
HR 1200 KSB	1200	38 x 124 x 7	IP 24	

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*) See special Installation Instructions and Directions for Use

OT = surface temperature is to be adjusted by an internal regulator

1) The dimensions marked with ¹⁾ are given for radiators in their complete state (i. e. with take-up? stirrups mounted on it)

S = Standard | N = Low | LT = low temperature | X4 = weatherproof protection

5. Installation instructions

Please observe the safety instructions given on pages 2 and 3!

- Our electric surface storage heaters shall be preferably located under a window or close to a room outside wall (please absolutely keep the minimum clearances as shown on page 4).
- The respective mounting aids are an integral part of the delivery.
- The room thermostat shall be placed at half of the room height and not closer than 1 meter from the heaters. The thermostat is to be installed between the power source and the electric storage heater. Remove the packaging. Heed that no packaging residues stick on the heater!
- Insert the rollers or feet from the bottom into the fins of the heater. To ensure a secure standing, pay attention to the same external distances.

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6. Report the case to the after-sales service

Your surface storage heater was carefully manufactured and checked repeatedly before dispatch. If you should nevertheless encounter a problem or have questions concerning handling, feel free to contact us.

7. Directive

From Jan 1st 2018, the EU-conformity of these devices is additionally bound to fulfilment of the Eco-Design Requirements 2015 /1188.

The use of the standard TT-KS series (without an external thermostat regulating) is only permitted with castors or on feet.

If this requirement is not fulfilled, the device will lose its CE marking.

7.1 Tables

Information requirements for electrical room heaters

Type: TT-TT-KS KS S / N/TT KS H (these devices shall be movable and may only be used with castors or feet)

Designation	Symbol	Rate										Unit	Designation	Unit	
Heating capacity												Type of heat supply, only for electrical storage heaters in rooms (select one type)			
Nominal thermal output	P _{nom}	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8		kW	Manual thermal charge control, with an integrated thermostat	NO		
Minimal thermal output (indicative)	P _{min}	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8		kW	Manual thermal charge control with acknowledgement of the room inside and /or outside temperature	NO		
Maximum continuous thermal performance	P _{max,c}	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8		kW	Electronic charge control with acknowledgement of the room inside and /or outside temperature	NO		
Auxiliary current consumption												Heating power supported with a fan		NO	
At nominal thermal output	e _{l,max}	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8		kW	Type of heating power / room temperature Control (select one type)			
At the minimum heating capacity	e _{l,min}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		W	Single-stage heating capacity; no room temperature control			
At the standby mode	e _{l,SB}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		W	Two or more manual stages, no room temperature control		NO	
												With mechanical room temperature control		NO	
												With electronic room temperature control		NO	
												Electronic temperature control in the room, depending on the time of day		YES	
												Electronic temperature control in the room, depending on the weekday		NO	
												Other control options (multiple choice is possible)		NO	
												Room temperature control with presence detection			
												Room temperature control with detection of an opened window		NO	
												With remote control option		NO	
												With adaptive start control		NO	
												With limitation of heating time		NO	
												With a black lamp sensor		NO	



Type: TT-KS S RF / TT-KS N RF / TT-KS H RF (additional thermostat TPF-Eco and Eco interface is required)

Designation	Symbol	Rate										Unit	Designation	Unit	
Heating capacity												Type of heat supply, only for electrical storage heaters in rooms (select one type)			
Nominal thermal output	P _{nom}	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8		kW	Manual thermal charge control, with an integrated thermostat	NO		
Minimal thermal output (indicative)	P _{min}	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8		kW	Manual thermal charge control with acknowledgement of the room inside and /or outside temperature	NO		
Maximum continuous thermal performance	P _{max,c}	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8		kW	Electronic charge control with acknowledgement of the room inside and /or outside temperature	NO		
Auxiliary current consumption												Heating power supported with a fan		NO	
At nominal thermal output	e _{l,max}	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8		kW	Type of heating power / room temperature Control (select one type)			
At the minimum heating capacity	e _{l,min}	2	2	2	2	2	20	2	2		W	Single-stage heating capacity; no room temperature control		NO	
At the standby mode	e _{l,SB}	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47		W	Two or more manual stages, no room temperature control		NO	
												With mechanical room temperature control		NO	
												With electronic room temperature control		NO	
												Electronic temperature control in the room, depending on the time of day		NO	

										Other control options (multiple choice is possible)	
										Room temperature control with presence detection	NO
										Room temperature control with detection of an opened window	NO
										With remote control option	YES
										With adaptive start control	NO
										With limitation of heating time	NO
										With a black lamp sensor	NO

Type: TT-KS S DSM / TT-KS N DSM / TT-KS H DSM (interface: optionally) TT-KS TDI/TT-KS- N TDI / TT-KS H TDI / TT-KS S plus / TT-KS N plus / TT-KS H plus													
Designation	Symbol	Rate								Unit	Designation	Unit	
Heating capacity										Type of heat supply, only for electrical storage heaters in rooms (select one type)			
Nominal thermal output	P_{nom}	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8	kW	Manual thermal charge control, with an integrated thermostat	NO	
Minimal thermal output (indicative)	P_{min}	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8	kW	Manual thermal charge control with acknowledgement of the room inside and /or outside temperature	NO	
Maximum continuous thermal performance	$P_{max,c}$	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8	kW	Electronic charge control with acknowledgement of the room inside and /or outside temperature	NO	
Auxiliary current consumption										Heating power supported with a fan		NO	
At nominal thermal output	$e_{l,max}$	0.5	1.0	1.2	1.5	1.8	2.0	2.4	2.8	kW	Type of heating power / room temperature Control (select one type)		
At the minimum heating capacity	$e_{l,min}$	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	W	Single-stage heating capacity; no room temperature control		NO
At the standby mode	$e_{l,SB}$	0.8	0.8	0.8	0.8	0.8	0.8	0.8		W	Two or more manual stages, no room temperature control		NO
											With mechanical room temperature control		NO
											With electronic room temperature control		NO
											Electronic temperature control in the room, depending on the time of day		NO
											Electronic temperature control in the room, depending on the weekday		YES
										Other control options (multiple choice is possible)			
											Room temperature control with presence detection		YES
											Room temperature control with detection of an opened window		YES
											With remote control option		NO
											With adaptive start control		YES
											With limitation of heating time		NO
											With a black lamp sensor		NO
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warranty! Updated: February 18

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