



EN Installation and operating instructions for  
Bathroom radiator

BPxxx550, BPxxx660, BPxxx850

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In addition to these installation and operating instructions, you will find videos for the chapters „Assembly“ and „Electrical connection“ videos for easy access in our Youtube channel.

Video URL:  
[video.welltherm.com](https://video.welltherm.com)

Alternatively, use the adjacent QR code to access the video.

# 1 - Safety

Please read these installation and operating instructions carefully. Keep these instructions and all other applicable documents in a safe place. If you pass on the heater, enclose all instructions.

## 1.1 - Action-related Warnings

Classification of action-related warnings

The action-related warnings are graded as follows with warning signs and signal words with regard to the severity of the possible danger:

### Warning signs and signal words



**Danger.**  
Immediate danger to life or danger of serious personal injury



**Danger!**  
Danger to life due to electric shock



**Warning!**  
Danger of slight personal injury



**Caution!**  
Risk of property damage or damage to the environment

## 1.2 - Intended use

Improper or non-intended use may result in danger to life and limb of the user or third parties or impairment of the product and other property. The product is used to increase the room temperature and to dry towels in bathrooms.

The intended use includes:

- observing the enclosed operating instructions for the product and all ther components of the system.
- the installation and assembly in accordance with the product and system approval.
- the observance of all inspection and maintenance conditions specified in the instructions.

Children younger than 3 years of age must be kept away unless they are supervised at all times.

Children 3 years of age and younger than 8 years of age shall not turn the product on or off unless they are supervised or have been instructed concerning the safe use of the product and understand the hazards involved, provided the product is placed or installed in its normal position of use. Children 3 years of age and younger than 8 years of age are not allowed to insert the plug into the outlet, regulate the product, clean the product and/or perform user maintenance.



**Caution -** Some parts of the product may become very hot and cause burns. Special care should be taken when children and vulnerable persons are present.

Do not allow children to play with the product.

Any use other than that described in these instructions or any use that goes beyond that described here is considered improper use.

Intended use also includes installation according to IP class.

Any direct commercial and industrial use is also not as intended. industrial use.

**Attention.**  
Any misuse is prohibited.

### 1.3 - General Safety instructions

**Danger due to incorrect operation**

Incorrect operation can endanger yourself and others and cause damage to property.

- Read these operating instructions and all other applicable documents carefully, especially chapter „1 Safety“ and the warning notes.
- Only carry out the activities described in these operating instructions.

**Risk of property damage due to overheating**

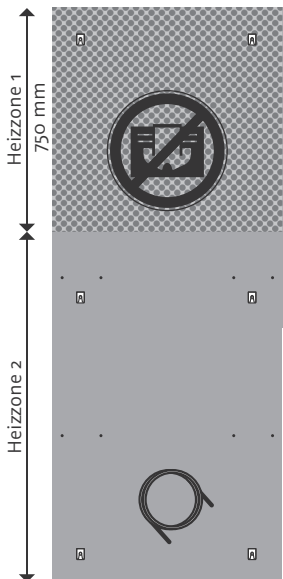
First of all, make sure that the product is attached to the wall in the correct position (connection cable coming out in the lower area).

This ensures that heating zone 1 for room heating is located in the upper area of the heater.

Heating zone 1 extends over the entire width of the radiator and extends 750 mm into the radiator, starting from the upper edge.

This area must not be covered, covered or used for drying textiles.

The following work may only be carried out by persons who are sufficiently qualified to do so:



**Danger due to insufficient Qualification**

- Assembly
  - Disassembly
  - Installation
  - Commissioning
  - Inspection and maintenance
  - Repair and overhaul
  - Decommissioning
- 
- Observe all instructions accompanying the product.
  - Proceed in accordance with the current state of the art.
  - Comply with all relevant directives, standards, laws and other regulations.

**Danger to life due to electric shock**



If you touch live components, then there is a danger to life from electric shock.

Before working on the product:

- Disconnect the power plug.
- Or disconnect the product from the power supply by switching off all power supplies (electrical disconnecting device with at least 3 mm contact opening, e.g. fuse or circuit breaker).
- Secure against being switched on again.
- Check that no voltage is present.

**Danger of burns or scalding  
Danger of scalding due to hot components**



Do not work on the components until they have cooled down.

**Risk of property damage due to unsuitable tool**



To tighten or loosen screw connections, use professional tools.

**Regulations (directives, laws, standards)**

Observe the national regulations, standards, guidelines and laws.

## 2 - Product related information

### 2.1 - Notes on the Documentation

|                              |                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------|
| Applicable documents note    | It is essential to observe all operating instructions supplied with the components of the system. |
| Keep documents               | Keep these instructions and all other applicable documents for further use. for further use.      |
| Validity of the instructions | These instructions apply exclusively to:                                                          |

| Item number | Format in cm       | Item number | Format in cm       |
|-------------|--------------------|-------------|--------------------|
| BPWS0550    | 60,0 x 120,0 x 2,2 | BPBIO550    | 60,0 x 120,0 x 2,2 |
| BPWS0660    | 60,0 x 150,0 x 2,2 | BPBIO660    | 60,0 x 150,0 x 2,2 |
| BPWS0850    | 60,0 x 180,0 x 2,2 | BPPBO550    | 60,0 x 120,0 x 1,7 |
| BPWGO550    | 60,0 x 120,0 x 2,2 | BPPBO660    | 60,0 x 150,0 x 1,7 |
| BPWGO660    | 60,0 x 150,0 x 2,2 | BPPBO850    | 60,0 x 180,0 x 1,7 |
| BPWGO850    | 60,0 x 180,0 x 2,2 | BPMA0550    | 60,0 x 120,0 x 1,7 |
| BPSP0550    | 60,0 x 120,0 x 2,2 | BPMA0660    | 60,0 x 150,0 x 1,7 |
| BPSP0660    | 60,0 x 150,0 x 2,2 | BPMA0850    | 60,0 x 180,0 x 1,7 |
| BPFA0550    | 60,0 x 120,0 x 2,2 |             |                    |
| BPFA0660    | 60,0 x 150,0 x 2,2 |             |                    |

### 2.2 -Product description

The product is an infrared heater that emits heat to objects through infrared waves. The warm objects then in turn emit heat to the surroundings.

The product is equipped with a safety temperature limiter that switches the product off in the event of overheating and switches it on again automatically after a cooling phase.

- The product should be used in combination with the following components:
- X3D 310EL and X3D Minor 1000 radio thermostats.
  - X3D surface-mounted radio receiver and X3D radio socket receiver
  - Opening detector X3D DO BL TYXAL
  - Gateway TYDOM 1.0

The product is exclusively suitable for wall mounting.

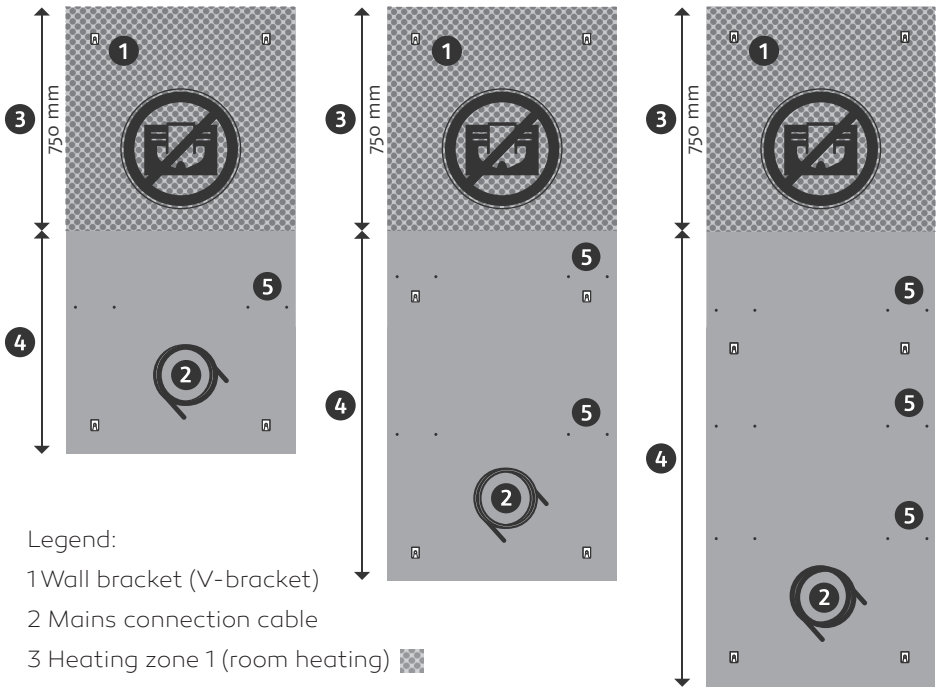
The maximum surface temperature at an ambient temperature of 20 °C is: 110 °C.

Product structure

Height: 1.200 mm

Height: 1.500 mm

Height: 1.800 mm



Legend:

- 1 Wall bracket (V-bracket)
- 2 Mains connection cable
- 3 Heating zone 1 (room heating)
- 4 Heating zone 2 (towel drying)
- 5 Mounting holes for optional towel holder

CE marking



The CE marking is used to document that the products in accordance with the basic requirements of the relevant directives in accordance with the directives according to the nameplate.

The declaration of conformity can be viewed at the manufacturer.

2.3- Technical data

Glass

|                     | BPxx0550                     | BPxx0660 | BPxx0850 |
|---------------------|------------------------------|----------|----------|
| Weight              | 16,2 kg                      | 20,3 kg  | 24,5 kg  |
| Dimensions, height  | 1.200 mm                     | 1.500 mm | 1.800 mm |
| Dimensions, width   | 600 mm                       | 600 mm   | 600 mm   |
| Dimensions, depth   | 22 mm                        | 22 mm    | 22 mm    |
| Mains voltage       | 1 ~ N PE 230 Volt / 50-60 Hz |          |          |
| Power               | 550 W                        | 660 W    | 850 W    |
| Perm. room humidity | 70 %                         |          |          |
| Protection class    | IP X4                        |          |          |

Metal

|                     | BPxx0550                     | BPxx0660 | BPxx0850 |
|---------------------|------------------------------|----------|----------|
| Weight              | 14,1 kg                      | 18,7 kg  | 23,3 kg  |
| Dimensions, height  | 1.200 mm                     | 1.500 mm | 1.800 mm |
| Dimensions, width   | 600 mm                       | 600 mm   | 600 mm   |
| Dimensions, depth   | 17 mm                        | 17 mm    | 17 mm    |
| Mains voltage       | 1 ~ N PE 230 Volt / 50-60 Hz |          |          |
| Power               | 550 W                        | 660 W    | 850 W    |
| Perm. room humidity | 70 %                         |          |          |
| Protection class    | IP X4                        |          |          |

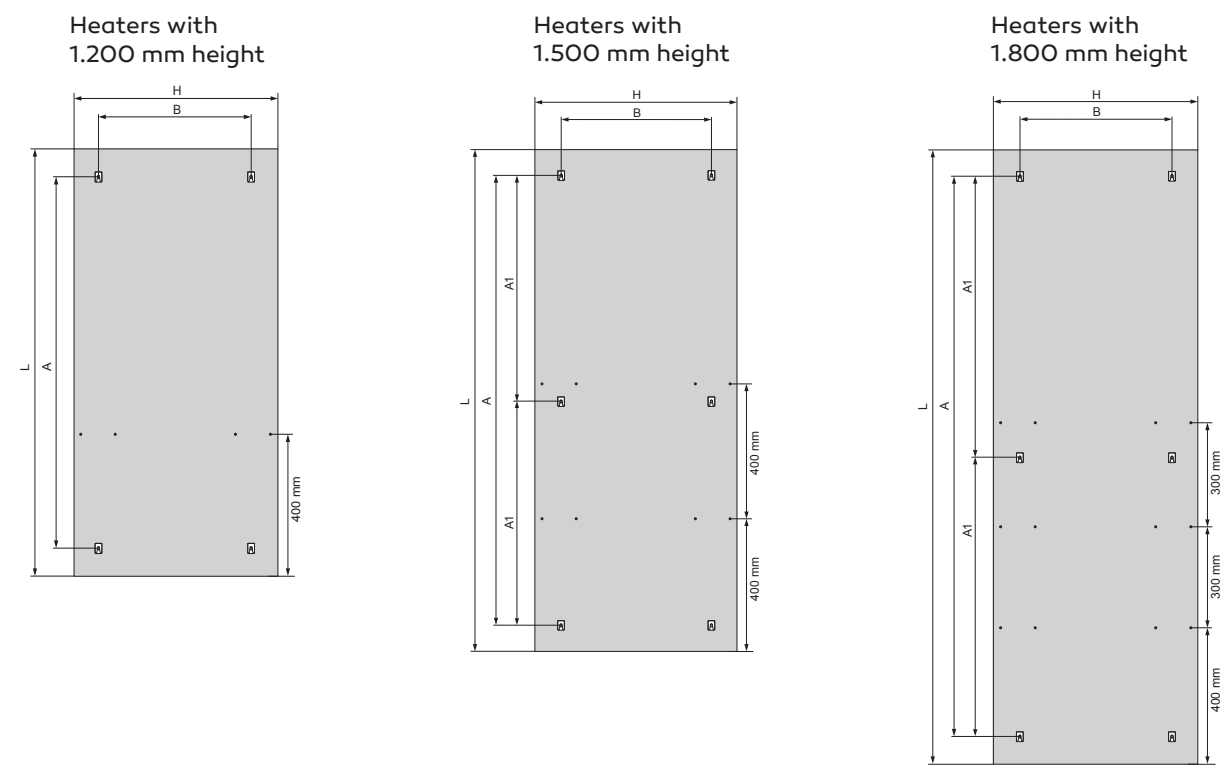
### 3 - Assembly

#### 3.1 - Check scope of delivery

Check the scope of delivery for completeness and intactness.

| Quantity | Designation                                    |
|----------|------------------------------------------------|
| 1 piece  | Infrared radiant heater with pre-assembled     |
| 1 piece  | connection cable and wall brackets (V-bracket) |
| 1 piece  | Mounting template                              |
| 1 piece  | Standard mounting set                          |
|          | Installation and operating instructions        |

#### 3.2 - Dimensions



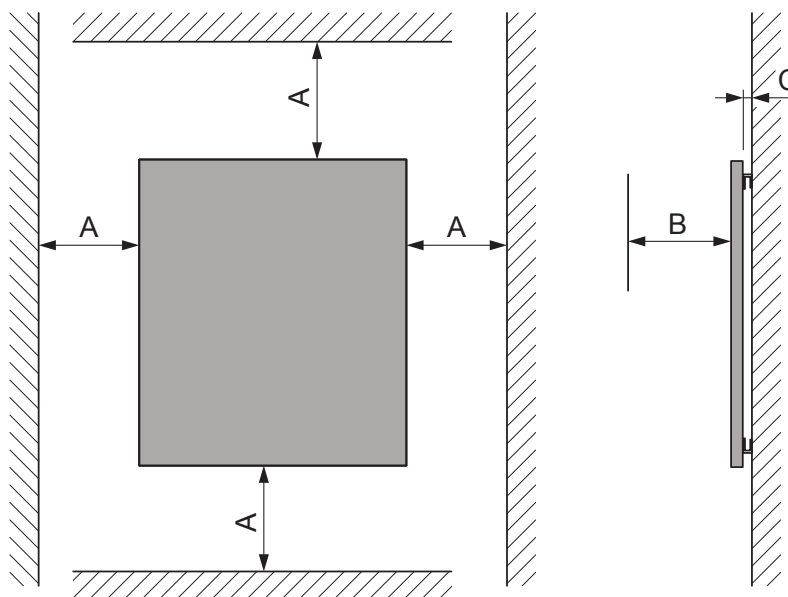
| Product  | H (mm) | L (mm) | A (mm) | A1 (mm) | B (mm) |
|----------|--------|--------|--------|---------|--------|
| BPxx0550 | 600    | 1.200  | 1.040  | -       | 440    |
| BPxx0660 | 600    | 1.500  | 1.340  | 670     | 440    |
| BPxx0850 | 600    | 1.800  | 1.640  | 820     | 440    |



### 3.3- Requirements for the installation site

- Do not install the product directly below a wall outlet.
- Do not install the product in rooms with excessive humidity.
- The product meets the requirements of protection class IPX4 and is suitable for installation in protection zone area 2 of wet rooms. Installation in zones 0 and 1 is not permitted.

### 3.4- Recommended Minimum distances

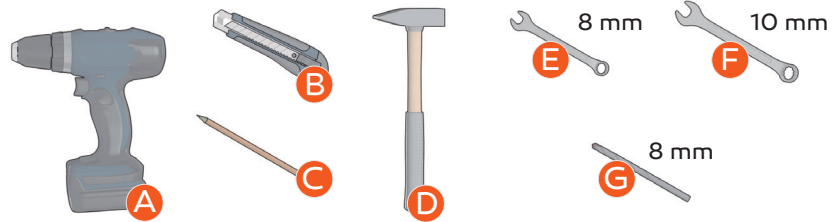


A = 200 mm    B = 400 mm    C = 30 mm

- Do not go below the minimum distance (C) between the rear panel and the wall, and wall, which is specified by the mounting brackets (V-brackets).
- Ensure that continuous air circulation is possible between the rear panel and the wall.
- Generally maintain a minimum distance of 600 mm in all directions to areas of IP classes 44/65/67.

### 3.5 - Mount heater

#### Recommended tool



A Cordless screwdriver or electric drill

B Cutter knife or carpet knife

C Pencil or ballpoint pen

D Hammer

E Wrench with 8 mm width across flats (jaw or ring)

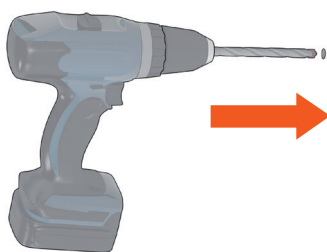
F Wrench with 10 mm width across flats (jaw or ring)

G Drill bit with 8 mm to match the material of your wall or ceiling

#### Mounting template

- Use the enclosed mounting template to determine the location of the drill holes for mounting the product on the wall.
- Be sure to observe the requirements for the installation location and the required minimum distances (see page 10).
- In general, we recommend using a spirit level for a plumb mounting position.

#### Mounting



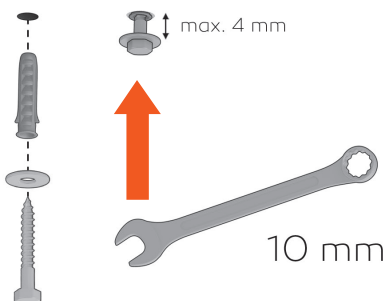
- 1 First, drill the required holes with an 8 mm drill bit suitable for the material of your wall at the previously marked positions. Make sure that you do not drill into water or power lines.

- For heaters with 1,200 mm length, drill 4 holes.

- For heaters with 1,500 / 1,800 mm length, drill 6 holes.

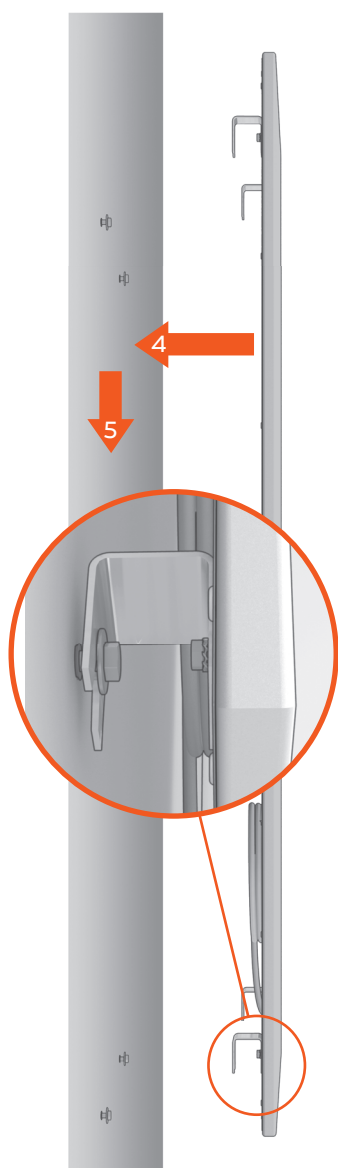
The number of holes is also determined by the drilling template supplied.

Please ensure correct positioning of the drill holes for optimum mounting of the wall bracket (V-bracket) to be screwed to it later.

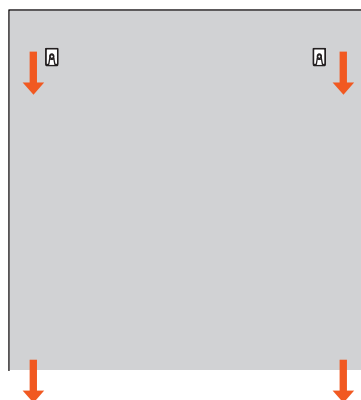


- 2 Use (if suitable for the material of your wall) the supplied dowels, the key screws and the washers from the „standard fixing set“ supplied with the heater - as shown on the left. The wall mounting material must be adapted to the wall condition on site if the supplied material is not suitable!

Insert the dowels into the holes (hammer in with a hammer if necessary) and screw in the screws with the washers using a 10 mm wrench. Do not tighten the screws completely. Leave 4 mm space between the washer and the wall.



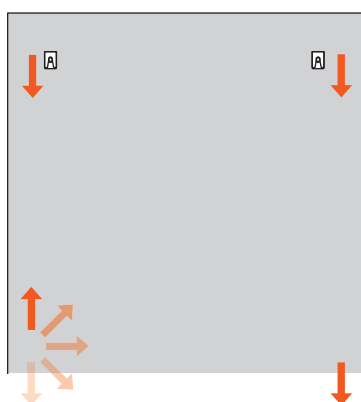
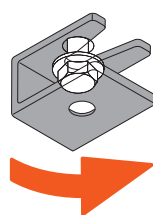
3 Check whether all wall brackets (V-brackets) of your heater point with the opening in one direction. If not, align the V-brackets uniformly in one direction. It does not matter in which direction.



4 Lift the heater to the mounting position so that the openings of the V-brackets are directly in front of the screws already screwed in at a distance.

5 Slide the heater sideways until the screws are fully inserted into the V-holders. Pay attention to the correct position of the washers. These must be located between the screw head and the V-holder.

6 Lock the heater by rotating the V-holders 180°:



**Perform locking:**  
Rotate any V-holder 180°.

7 Tighten all 8 or 12 screws with the two wrenches 8 and 10 mm. Check that the heater is firmly seated.

## 4 - Electrical connection

### 4.1 - Power supply produce



#### Caution!

Risk of material damage due to excessive connection voltage! Mains voltages above 253 volts can destroy electronic components. Make sure that the rated voltage of the mains is 230 volts.

The infrared heater has a three-core connection cable with a length of 1.9 m at the end of which a Schuko plug is mounted.

#### Ecodesign Directive observe

According to EU Ecodesign Directive 2009/125/EC - concretized for the product area of individual room heaters in Regulation 2015/1188 - operation of this infrared heater as a stationary individual room heater is only permitted if certain control/regulation requirements are met.

Detailed information on this can be found, for example, on the Internet at:

- <https://www.umweltbundesamt.de/themen/wirtschaft-konsum/produkte/oekodesign/oekodesign-richtlinie>
- <http://eur-lex.europa.eu/legal-content/DE/ALL/?uri=CE-LEX%3A32015R1188>

To meet the above requirements and for comfortable operation of this infrared heater, Welltherm GmbH offers a range of control components. In the following we will deal with the electrical connection of these components.

Stecken Sie für die Stromversorgung den Schuko-Stecker der Heizung in den Funk-Steckdosenempfänger.

#### Variant A

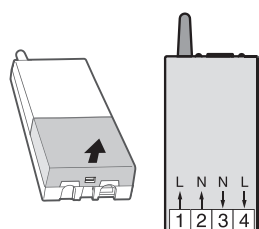
Remote controller with radio remote receiver for the socket (Art.-No. 890839)



**Attention. The electrical connection of the optionally available X3D radio receiver may only be carried out by a qualified electrician!**

#### Variant B

Remote controller with surface-mounted receiver for the wall (Art.-No. 890838)



- Connect the ground line of the mains to the yellow-green connection line of the infrared heater.
- Connect the phase (conductor) of the mains to the terminal 4.
- Connect the neutral conductor of the mains to the terminal 3.
- Connect the terminal 2 with the blue connection line of the infrared heater.
- Connect terminal 1 to the brown connection line of the infrared heater.

## 5 - Operation

### 5.1 - Put heating into operation

Condition:  
Initial commissioning

Switch on the power supply to the heater.

If a pleasant warmth does not appear immediately, then leave the heater in operation for a longer period of time until a pleasant room climate is created.

- As soon as all solid bodies are warmed up, a pleasant warmth is created in the room.

Put all the radio control components you are using into operation. Read the respective operating instructions for this.

### 5.2 - Troubleshooting

Recognize malfunctions  
and remedy

If the heater does not emit any heat, check whether the heater in the area of heating zone 1 is covered or dirty.

It is possible that the safety temperature limiters integrated in the heater have switched off the heater. In this case, wait for the cooling phase. The heating switches on again automatically.

### 5.3 - Maintenance

The surface color of the heater may change due to room air contamination, e.g. cigarette smoke, fireplace/stove or cooking vapors.

After the cooling phase, clean the heater at regular intervals with a damp cloth and some solvent-free soap.

**Caution! Risk of material damage due to unsuitable cleaning agents!**



### 5.4 - Take heating out of operation

Switch off the power supply to the heater.

## 5.5 - Recycling and Disposal



Please dispose of the packaging material properly.

This heater contains recyclable materials as well as environmentally incompatible substances.

- Do not dispose of the heater with household waste.
- Instead, take the heater to a collection point for waste electrical or electronic equipment.

## 5.6 - Warranty and Customer service

### Warranty

Welltherm GmbH grants - independent of the legal warranty - a 60-month warranty to all customers, as far as they are consumers.

This begins with the day of delivery of the product and applies nationwide.

The content of the guarantee is as follows: If damage occurs within 60 months after delivery of the product, which has not been caused by improper use, Welltherm GmbH will undertake the rectification of the damage in accordance with the Welltherm warranty conditions, which can be found at the end of the German-language instructions. If the rectification of defects is unsuccessful twice, the device will be exchanged for a technically identical new device. In the event of non-availability, the customer shall be entitled to delivery of a device of equivalent quality and price from the Welltherm GmbH product range.

Price reduction, withdrawal from the purchase contract or claims for damages are not part of the warranty agreement. Legal or contractual claims for compensation are not affected by the guarantee. The guarantor is Welltherm GmbH, Wibscha 22, 58513 Lüdenscheld, Germany.

### Customer service

You can contact the customer service of Welltherm GmbH by phone, fax, eMail and mail:

**Phone number:**  
+49 2351 981 622 60

**Fax number:**  
+49 2351 981 622-66

**eMail address:**  
sales@welltherm.de

**Postal address:**  
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