

# Operating instructions

## Infrared radiator



- Translated original instruction manual -



English - Translated original instruction manual

## 1 General

Thank you for your confidence in our Infrawarm® infrared heating. It will create a comfortable climate that you will not want to miss.

These operating instructions will help you to familiarize yourself with the device and its installation. Detailed operating instructions and the safety instructions to be observed can be found at [www.infrawarm.com](http://www.infrawarm.com). Please read the information contained therein carefully and observe it to avoid improper use.

Have fun with your Infrawarm® infrared heating.

### 1.1 Application of the operating instructions

These operating instructions will help you to familiarize yourself with the device and to avoid improper use. You operate the device safely if you use these operating instructions as a reference aid, guide, and source of information. You must understand the safety instructions and warnings contained in the context and always observe them. As part of the product, the operating instructions must always be available nearby.

#### 1.1.1 Subject

The device operating manual contains information you need to pack, store, transport, assemble, commission, operate, clean, maintain, decommission, and dispose of the device.

Device name: Infrared radiator  
Manufacturer: Infrawarm GmbH  
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info@infrawarm.com  
www.infrawarm.com

#### 1.1.2 User groups

These operating instructions are primarily intended for the user of the device, who must use the information contained therein to fulfill his user obligations.

Chapter 2 Safety is intended for all persons who use and operate the device.

#### 1.1.3 Users

The operator is responsible for the operation and for the safety precautions. He is thus responsible in particular for

- the adequate instruction and training of the personnel,
- the safety-compliant organization of the operation &
- the perfect condition of the device.

## 2 Intended use

### 2.1 Intended use

The Infrawarm® products are infrared flat panel heaters for heating and temperature control of buildings. In addition to being used as a holistic system, our products can also be used as a local and temporary alternative.

The infrared panel heaters are intended for indoor use only. The infrared panel heaters must be operated in conjunction with a room thermostat to comply with the requirements of the Ecodesign Directive 2009/125/EU.

Modifications to the product must not be carried out. The Infrawarm infrared panel heaters are a consumer product.

### 2.2 Foreseeable misapplication

This includes abuse.

Any use that goes beyond the above-mentioned intended use is considered improper use. The manufacturer is not liable for personal injury and property damage resulting from such non-intended use.

It is forbidden,

- disregard the assembly and installation instructions in the operating manual;
- operate the infrared heaters on voltages other than those specified on the type plate;
- to operate the infrared heaters outdoors;
- to operate the infrared heaters in the vicinity of highly flammable substances, gases or liquids, such as solvents paints, adhesives, etc;
- use accessories other than those described in the operating instructions &.
- use spare parts other than those approved by the manufacturer.



The manufacturer is not liable for damage resulting from incorrect operation, non-observance of the operating instructions, improper use or misuse. In this case, the operator bears the risk.

## 2.3 General safety instructions

The Infrawarm may only be used in a technically perfect condition and in accordance with its intended use, in a safety-conscious and hazard-conscious manner and in compliance with the operating instructions. Malfunctions, especially those which impair safety, must be eliminated immediately.

This operating manual contains specific warnings that must be observed and complied with, see Chapter 1.2.2 Warnings, page 7, and Chapter 2.4 Special safety instructions, from page 10. The warnings are binding for every employee involved in carrying out work on the device.

## 2.4 Special safety instructions

The safety instructions listed below refer to specific characteristics and operating conditions of the device. Essentially, these instructions arise from the relevant statutory safety regulations and the residual hazards identified in the risk assessment of the device.

### 2.4.1 Dangers When handling the device



#### Warning

Thermal radiation hazards: fire, combustion when the infrared panel heater overheats due to limited heat dissipation.

- Children younger than 3 years of age are to be kept away unless they are supervised at all times.
- Children 3 years of age and younger, and under 8 years of age, should not turn the appliance on or off unless they are supervised or have been instructed in the safe use of the appliance and understand the hazards involved, provided the appliance is placed or installed in its normal position of use.
- Do not allow children 3 years of age and younger than 8 years of age to plug the appliance into the outlet, regulate the appliance, clean the appliance, and/or perform user maintenance.
- Some parts of the product may become very hot and cause burns. Special care should be taken when children and vulnerable persons are present.



#### Warning

Danger from heat radiation: fire, combustion when the infrared panel heater overheats due to limited heat dissipation.

- Observe the safety distances to the floor, wall and ceiling during installation.
- Keep the infrared panel heater clear The infrared panel heater must not be covered during operation.
- Keep combustible materials at least 40 cm away from the infrared panel heater.
- Always unwind the power cord completely, because an incompletely unwound power cord can cause overheating.
- Keep the infrared panel heater free of dirt. Clean the infrared panel heater with a dry or slightly damp cleaning cloth if it is dirty.



#### Warning

Gravity/stored energy hazards: bumping, crushing of limbs and body.

- Follow the mounting instructions



#### Caution

Acceleration/deceleration hazards: bumping, crushing of limbs and body.

- Lay the cable so that there is no risk of tripping.



### Caution

Sharp edge hazard: Cutting on sharp edges of the infrared panel heater.



### Caution

Danger due to stability/safety: Consequential damage such as minor burns, property damage due to infrared panel heater tipping over.

- Observe the assembly instructions.

## 2.4.2 Dangers due to the electrical system



### Warning

Danger from parts that have become live in the fault state: Risk of electric shock due to incorrect installation of electrical connections, faulty cable insulation or the use of faulty electrical equipment/tools.

- Before operation, check the infrared panel heater for damage.
- In case of damage to the device or the connection cable, further use must be excluded.
- Immediately pull the power plug out of the socket:
- Repairs may only be carried out by the manufacturer or authorized specialist companies.



### Warning

Hazard due to short circuit: Fire due to a short circuit caused by a line break or insulation damage.

- Connect the infrared panel heater only to a fused safety socket.



### Warning

Overload hazard: Fire due to overload of electrical components.

- Connect the infrared panel heater only to a fused safety socket.



### Warning

Danger due to live parts: Hazard due to danger of electric shock during measurements and tests.

- Only carry out cleaning, maintenance and troubleshooting work when the device is shut down and disconnected from the mains.



### Caution

Danger due to electric arc. Risk of fire, burns to parts of the body from an electric arc if the device is faulty.

- Connect the infrared panel heater only to a fused safety socket.

## 2.5 Behavior in an emergency

### 2.5.1 First aid

If there has been an accident, the following must be done fundamentally:

- Pull out the mains plug and secure it against being switched on again.
- Give first aid to the injured person immediately.
- Prevent further persons from being injured.
- Inform the rescue service.

### 2.5.2 Electrical accidents

In case of electrical accidents, the device must be disconnected from the power supply immediately by pulling out the mains plug.

Drive according to chapter 2.5.1 First aid continue.

## 2.6 Warranty

The device may only be used when it is in perfect working order and in accordance with its intended use and in a safety-conscious and hazard-conscious manner, observing the operating instructions. Malfunctions, especially those that impair safety, must be eliminated immediately.

Modifications to the device and its accessories (mechanical/electrical modifications) within the limits of the intended use may only be carried out by authorized specialist personnel.

The manufacturer is not liable for damage resulting from incorrect operation, non-observance of the operating instructions, improper use or misuse. In this case, the operator bears the risk.

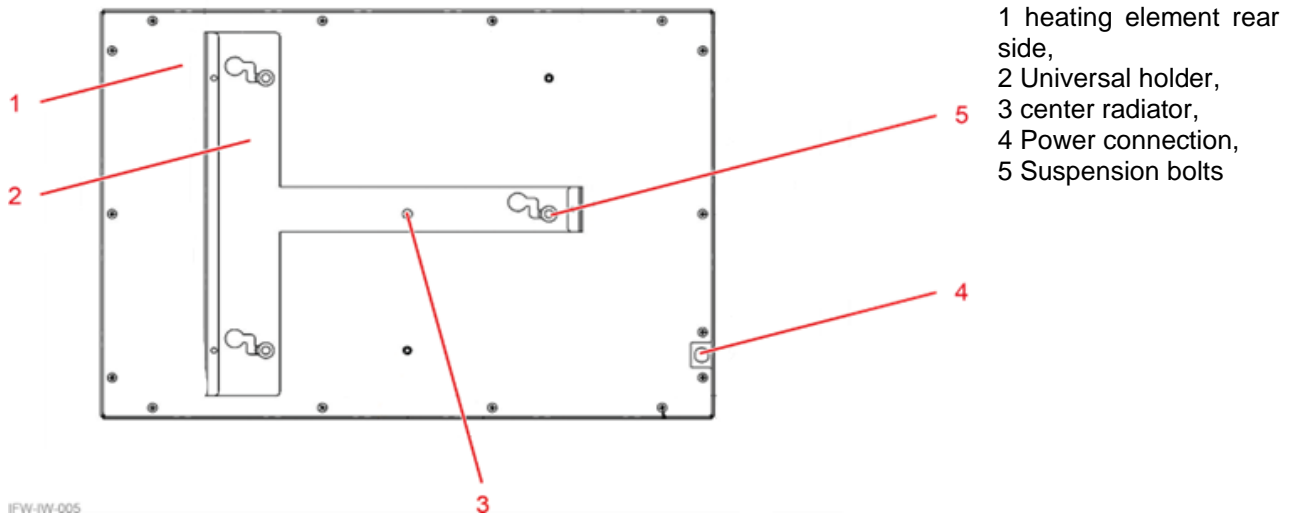
The warranty is provided in accordance with the statutory provisions.

It shall commence on the date of handover of the device, which shall be evidenced by invoice or other documents.

The warranty is carried out without any calculation; they neither cause an extension nor a new start of the warranty period. Replaced parts become our property.

If the complaint is unjustified, we shall be entitled to demand reasonable payment for inspection and shipment of the device on a cash-on-delivery basis.

### 3 Overview



IFW-IW-005

Figure 1: Back side Infrawarm infrared heater

#### 3.1 Technical data

##### 3.1.1 Marking

The device is equipped with an individual marking for identification.



Figure 2: Example nameplate IW9065

##### 3.1.2 Product data

#### General data:

Lifetime:	15 - 25 years					
Installation condition:	In closed rooms					
<b>Ambient conditions for operation</b>						
Temperature:	5 °C to 40 °C					
Rel. humidity:	Up to 95 % non-condensing					
Set-up height:	Up to 1.000 m					
<b>Ambient conditions for transport and storage</b>						
Temperature:	0 °C to 50 °C					
Rel. humidity:	Up to 95					
<b>Performance data</b>						
Voltage:	230 V					
Frequency:	50 Hz					
Protection class:	IP 44					
Device protection class:	I					
Temperature front:	Max. 95 °C					
Temperature back side:	Max. 55 °C					
<b>Product specifications</b>						
Product Name:	Length:	Width:	Height:	Weight:	Rated power:	Continuous operating power:
IW6545	650 mm	450 mm	25 mm	3,7 kg	360 W	240 W
IW9045	900 mm	450 mm	25 mm	4,7 kg	450 W	300 W
IW9065	900 mm	650 mm	25 mm	6,7 kg	650 W	440 W
IW12065	1200 mm	650 mm	25 mm	8,3 kg	900 W	600 W
IW16065	1600 mm	650 mm	25 mm	11,0 kg	1200 W	800 W

## 4 Packing, storage and transport

### 4.1 Packing notes

The device is packed in rigid foam in a cardboard box for transport.

### 4.2 Scope of delivery

- Infrared heater with power cord
- Universal bracket for wall or ceiling mounting

Not included in the scope of delivery:

- Attachment tool
- Screws
- Dowel

## 5 Assembly and installation

### 5.1 Mounting

#### 5.1.1 Dangers during assembly



#### CAUTION

**Hazard due to falling objects.**

Bumping, crushing of limbs and body by falling infrared heater during installation.



#### NOTE

Do not place the Infrawarm on the side with the controls (switches) as this may damage these controls.

#### 5.1.2 Installation conditions

When installing at the place of use, the safety distances listed below must always be observed.

Do not mount the Infrawarm near easily flammable substances, gases, or liquids, such as solvents, paints, adhesives, etc. Mount the device on a flat, solid, and load-bearing surface.

The unit is designed for wall or ceiling mounting but can also be placed mobile in the room using stands (available separately from Infrawarm®).

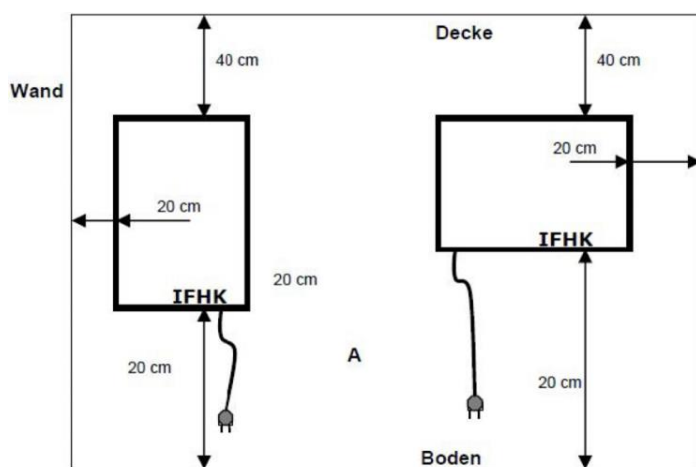


Figure 3: Mounting in closed, dry rooms without water-bearing areas.

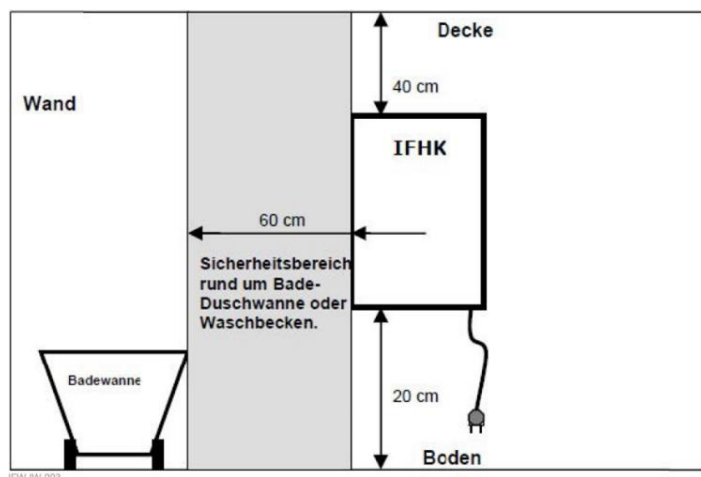
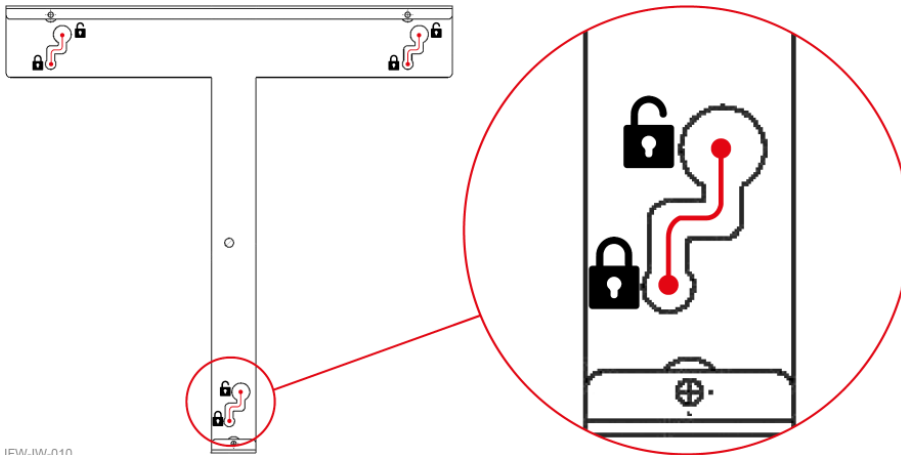


Figure 4: Mounting in rooms with bathtubs/shower trays/washbasins.

## 5.2 Wall / ceiling mounting

Before mounting, make sure that the device is not connected to the mains.



IFW-IW-010

Figure 5: Locking the device to the universal mount.



Before mounting, check whether there are lines at the position of the drill holes.

The hole in the wall bracket indicates the center of the radiator after mounting. Depending on the type of mounting (wall mounting, portrait or landscape/ceiling mounting), screw the supplied bolts to the correct position on the back.

- Hold the universal mount against the wall/ceiling.
- Align the universal holder with a spirit level.
  - o When mounting on the ceiling alignment for example parallel to the wall
- Mark the drill holes.
- Drill the holes.
- Insert the dowels.
- Put on the universal holder and screw it tight.
- Check the horizontal fit of the universal holder.
- Hang the device in the Z-recesses of the universal holder.
- Slide the device to the lowest position of the recesses to lock the position of the device.

## 5.3 Installation

### 5.3.1 Connection of the power supply

The device may only be operated with a voltage of 230 VAC/50Hz. The nominal power consumption is 430 VA, i.e. approx. 1.9 amps.



The infrared panel heaters must be operated in conjunction with a room thermostat to comply with the requirements of the Ecodesign Directive 2009/125/EU.

## 6 Commissioning

Remove the device, all accessories, and the power cord from the packaging. Dispose of the packaging materials in an environmentally friendly manner.

Check the device housing and the power cord for visible damage.

In case of visible defects, the device must not be put into operation under any circumstances. In this case, contact your point of sale or the manufacturer immediately. Never touch the power cord with wet hands. Make sure that the heating surface (front) of the device is not covered.

Before commissioning, mount the device according to chapter 5.1 Mounting, or set up the device in the room using the optionally available feet, observing the safety distances.

During initial start-up, there may be a slight odor as a result of production-related residues. The vapors are not dangerous. This odor will disappear after a short period of operation.





Please note that in exceptional cases, a new device requires up to 4 hours once to develop its full heat capacity. If the device does not provide full heat immediately, please let it run for this time. At room temperatures below 8 °C, the unit heats up more slowly, as heating at the maximum temperature setting could overstress and damage the integrated heating fabric. The control electronics of the device is equipped with a corresponding safety function, which protects the heating fabric.

## 7 Operation



### WARNING

#### Danger due to electromagnetic interference

Fire, combustion when the infrared panel heater overheats due to malfunction caused by electromagnetic interference.



### WARNING

#### Danger due to moisture

Hazards due to short circuit and arcing caused by moisture.

- Observe the installation instructions and maintain a safety range of 60 cm to the bathtub, shower tray and washbasin.



### CAUTION

#### Hazard due to heat radiation

Fire, combustion when the infrared panel heater overheats due to limited heat dissipation.

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

### 7.1 Switching on the device

Press the on/off switch to "I". The device starts to heat up.

### 7.2 Switch off the device

Press the on/off switch to position "0". The unit stops heating.

Please note that the surface of the device is still very warm for some time after it has been switched off. Wait at least 30 minutes before touching the device.



The Infrawarm is not suitable as a hot plate or food preparation heating source.

## 8 Cleaning

The device may only be cleaned with a dry or slightly damp cloth and without the use of cleaning agents or flammable solvents.

Do not immerse the device in water or other liquids and do not pour water or other liquids over the device.

## 9 Troubleshooting

Disturbance:	Possible cause(s):	Measure(s):
The device does not run.	Power cable is not connected to the socket.	Connect the power cable to the power outlet.
	Power switch is OFF	Set power switch to ON
Heating capacity is insufficient	The room temperature is below 8 °C	Let the device run for at least 4 hours.

## 10 Disposal and Recycling



Do not dispose of the product with normal household waste at the end of its service life. Take it to a collection point for recycling electrical and electronic equipment. This is indicated by this symbol on the product, in the operating instructions and on the packaging. Find out about collection points operated by your dealer or local authority. The reuse and recycling of old equipment is an important contribution to the protection of our environment.