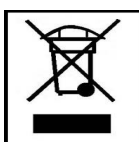
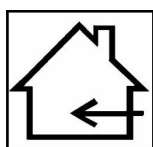


# INSTRUCTION MANUAL



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# **INFRARED PANELS INSTRUCTIONS**

Thank you for purchasing an infrared heating produced by INFRAPOWER MANUFACTURING LTD., powered by INFRAPOWER.

THIS VERSION OF THE INSTRUCTION MANUAL IS ONLY A TRANSLATION FROM THE ORIGINAL GERMAN VERSION APPROVED BY TUV RHEINLAND GERMANY. WE DO NOT TAKE ANY RESPONSIBILITY FOR THE TRANSLATED VERSION. PLEASE ASK YOUR DEALER WHERE YOU PURCHASED OUR INFRARED PANEL FOR THE ORIGINAL GERMAN VERSION.

INFRAPOWER heating panels operate on electricity. According to this definition, these devices are dangerous. It is therefore necessary to read these instructions carefully before use. If you have questions, we are also happy to help. Keep this manual in the vicinity of the device.

## **1. GENERAL PRODUCT INFORMATION**

### **1.1. GENERAL INFORMATION ABOUT INFRARED HEATERS**

INFRAPOWER surface panels are direct heating systems that use the principle of heat radiation (infrared). They have very low energy consumption and achieve a pleasant and comfortable indoor climate. The heat conductor is carbon fiber.

INFRAPOWER panels convert with nearly 100% efficiency electrical energy into heat. The special coating on the surface is optimized so as to achieve maximum heat dissipation in the wavelength range from 7 to 10µm.

With INFRAPOWER you heat as the sun warms the earth - INFRAPOWER bring this heat into your home, minimize your heating costs and also has a salutary effect on the human body. The heat has a positive effect on the human heart, especially for the elderly, children and newborns. IT has a very effective impact on persons who are restricted in their movement. The use of INFRAPOWER panels improves your overall health.

Due to the low power of the individual plates and a uniform arrangement in space is possible that the built-in power decreases in proportion to a traditional heating to 80%. Compared with a traditional

heating, savings up to 30% can be achieved with INFRAPOWER heating panels. In transitional periods, this can be up to 60%.

## **1.2. GENERAL INFORMATION ABOUT INFRAPOWER HEATERS**

INFRAPOWER panels can be made applicable in different rooms and environments (for each application, see Section 1.3.). Depending on the environment and nature of the desired application, various models are recommended (to find the best model for you, please contact your dealer). For all models, and applications be sure to follow the safety instructions for installation (see below point 3.1).

INFRAPOWER panels heat up in just a few minutes (about 5 to 10 minutes, see point 2). If you not have a pleasant warm climate area immediately, you have to run the heating element for an extended period for the first time, because the cold objects (furniture, walls, ceilings, floors, etc.) need to warm up. Once these solids are heated, the warmth will be spread throughout the room and you will be able to reduce the duration of the heating element to a minimum. Hence an enormous contribution to environmental protection will be provided.

Depending on which INFRAPOWER model you have selected, the surface will heat from 80 to 125 °C. All INFRAPOWER heating panels are equipped with temperature sensors that regulate the surface of the unit before overheating.

INFRAPOWER heating panels can be found in different environments application. Further details, see section 1.3.).

## **1.3. VARIOUS APPLICATIONS AND MODELS**

### **1.3.1. INDUSTRIAL PANELS**

The so-called "industrial panels" are for environments where intense heat is required, especially for industrial processes as well as drying processes. Industrial panels have a higher surface temperature than any other heating panels and are not intended for private users (it requires special security precautions are taken).

### **1.3.2. CEILING PANELS**

In order to heat a room optimally, INFRAPOWER panels are attached to the ceiling. The radiation can be optimized. Even more space can thus be saved.

INFRAPOWER panels are light enough to be integrated into existing ceiling systems. Please note the necessary details for instructions described below (see section 3.1).

### **1.3.3. WALL PANELS**

INFRAPOWER wall panels can be optimally used as an additional or main heating system. Due to the thin and light structure and the differences in surface design, the panels are compact and suitable for almost all walls (please notice the instructions for installation in section 3.1). Depending on the position of the suspension, INFRAPOWER wall panels have a convection heat share of almost 0%.

### **1.3.4. DESK PANELS**

Table panels are for places where it is difficult to install a good heating. A good example are receptions where the doors constantly switching and the indoor climate never behaves continuously. INFRAPOWER table panels can be positioned optimally to heat these spaces and to create a comfortable feeling of warmth.

### **1.3.5. SPECIAL APPLICATIONS**

For special applications of INFRAPOWER panels, such as in infra-red cabins, terrariums, etc., we are available on request.

## **2. SAFETY NOTES BEFORE FIRST USE**



### **2.1. GENERAL SAFETY INSTRUCTIONS**

- All INFRAPOWER heating panels are only suitable for use as a heating element. Any improper use can lead to a significant danger to people, animals and the environment.

- INFRAPOWER heating panels are not intended to be used by persons (including children) with reduced physical, sensory or mental abilities or lack of experience and / or knowledge, unless they are supervised by a person responsible for their safety or have received instructions how to use the device.
- All heating panels must be kept away from children. Children should be supervised to ensure they do not play with the device.
- INFRAPOWER heating panels are not suitable for use in rain or wet conditions, under water, and for any non-intended use.
- For all INFRAPOWER heating panels please observe the following installation instructions (see section 3).
- Each INFRAPOWER heater has a built-in safety switch that turns off the heating element automatically, if not handled correctly (i.e. overheating at high temperatures which may, for example, be a result of covering the heating element). By pulling the plug and after a wait of about 10 to 15 minutes, the safety switch is activated automatically and the unit is operational again.

## 2.2. SPECIAL SAFETY INSTRUCTIONS



- DO NOT COVER. Warning: To avoid overheating, the heater must not be covered. Never cover the INFRAPOWER heating panel. This can cause heat buildup.
- The heater is very hot in use (depending on model, up to 125C). A contact could lead to serious burns.
- Each INFRAPOWER heater is equipped with a power cord and plug. By using an optional adapter you can operate the heater with room thermostat. Make sure that nobody can trip over the cable. Protect the unit from overloading the network security protection and operate the equipment only as specified on the nameplate.
- Do not use the INFRAPOWER heating panel when the power cord or plug is damaged. This should be checked before each use. Drag or not to tear the mains cable. Do not scrub the



cable to edges and do not clamp the cable. Neither the cable nor the plugs may be repaired or replaced. In case of damage contact the manufacturer or his service.

- Never dip the INFRAPOWER heating panels into water or put it in water. Also, the heating element has never been touched by persons who are in the bathtub or under the shower. Not use this device near a bathtub, a shower or a swimming pool.
- The heating panel can only be set in operation in permanently mounted condition (for more information on mounting, see Item 3.1).
- In case of damage of the heating panel or the network cable, immediately disconnect from the network and keep it safe (for further information about warranty process, see Item 8).
- Never open the device to prevent damage and accidents (especially look at the detailed information described in section 3.5.). If the device was not opened by experts, warranty and liability claims are not approved.

### 3. INSTRUCTIONS FOR INSTALLATION AND USE

#### 3.1. INSTRUCTIONS FOR MOUNTING



INFRAPOWER panels must be mounted with the supplied **original suspension** (aluminum profiles at the back of the panels and screws included). For panels that are used without the original suspension, the warranty and liability are excluded as well as consequential damages.

INFRAPOWER panels must only be used in the manufacturer-related frames. For panels that are used without the **original frame** warranty, liability and damages are excluded. The following instructions for your own frame solutions are for informational purposes only and should not be conclusive and binding. No liability is accepted for the following notes.

##### 3.1.1. INSTRUCTIONS TO OWN FRAME STRUCTURES

- Make sure that the INFRAPOWER panel is at the edges no longer than 1.5cm obscured or overlapped. The inside dimensions of the frame must ever be 1.5mm larger than the heating element, as the panel expands by the heat slightly.

- Make sure that the frame can withstand the weight of the corresponding INFRAPOWER Panel (to the weights of the corresponding INFRAPOWER Panel please refer to the technical details in section 4). Please note in this context also the weight of the frame itself. The original suspension (aluminum profiles and the backside of the panel and screws for wall / ceiling mount) hold only an additional load of 3kg. Make sure therefore that a separate frame used, not exceed the weight of 3kg.
- The ventilation of the heating panels on the backside (metal / aluminum plate) must be respected. To do this in accordance with the selected frame, suitable openings must be created for circulation.
- Do not drill any holes in the heating panel
- Do not use a frame that is not tested until at least 125 ° C. Also make sure that an eventual finishing or impregnation of the frame is protected up to 125 ° C.

### 3.1.2. GENERAL INSTRUCTIONS FOR MOUNTING

Depending on the desired application (see section 1.3.) different types of installation are provided. All INFRAPOWER panels have an original suspension (aluminum profiles at the backside of the panels and according screws for wall / ceiling mounting are enclosed).

- Make sure that the power plug during assembly is not plugged in. During installation the unit, make sure that the heating panel is not in the 'ON' state.
- Do not make any holes in the heating panel. Should holes been made for any reason, do not put the device into operation in any case. Please contact the manufacturer or dealer from whom you purchased the product.
- Use the enclosed **mounting template** and follow the instructions for installing as described in detail, in order to ensure a quick and easy installation.
- If the device is installed in children's rooms or rooms accessible to children, make sure that the device is suspended 1.2m above the ground.
- **DISTANCE TO BACKSIDE:** INFRAPOWER panels give off at the backside only convection heat (no infrared radiation). However, make sure that the distance to the back of the heating panels (metal / aluminum plate) is not less than 25mm in order to ensure ventilation. This distance is always given when you use the standard suspension. If you use a different

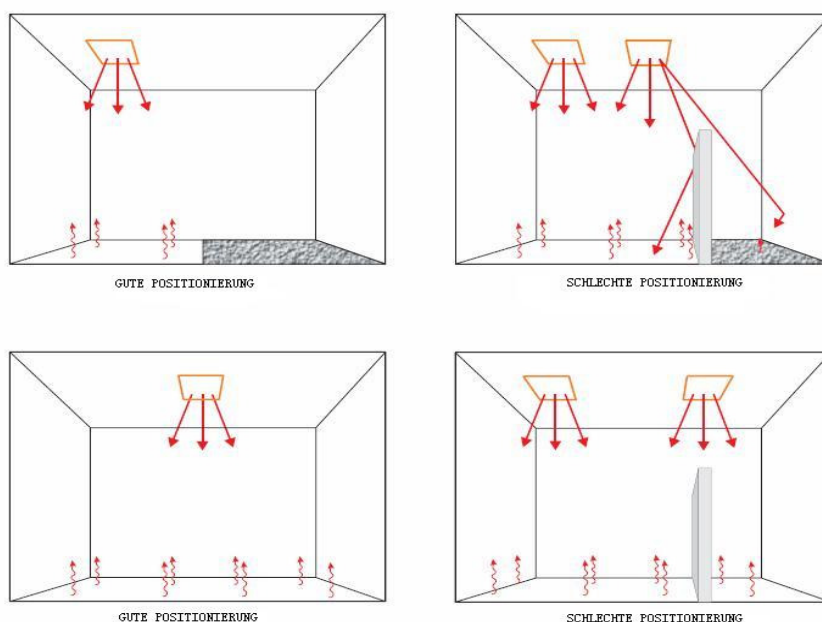


mounting system than the original, warranty as well as liability for consequential damages is excluded.

- **DISTANCE TO FRONTSIDE:** INFRAPOWER panels send out infrared radiation only on the front side. Make sure that a minimum distance of 25cm to the front is given.
- When mounted in public spaces, the VDE 0108 has to be observed.
- Do not mount the heating panel near a shower, tub or a swimming pool. Make sure that the heating panel cannot be touched by any person who is in the bath or shower. In case of installation in wet rooms, the installation has always been done by a specialist company and according to VDE0100 part 701, 702 and 703 respectively to the ÖVE-EN standards.
- Never mount the heating element before or immediately below a socket.
- Make sure that the plug is accessible after installation of the panels and in need can be immediately drawn.
- If the heating panel is integrated in a permanent electrical installation or connection, a separating device of overvoltage category III for the full separation is needed. This connection has to be carried out by a qualified professional.

### 3.1.3. GENERAL INFORMATION ON POSITIONING

When infrared radiation, due to improper positioning, is not achieved certain areas of space in a room, we speak of "shadow" effect. Optimal positioning can avoid shadow effects. For detailed information about the optimal positioning please consult your dealer where you purchased the INFRAPOWER panel.



### 3.2. INSTRUCTIONS FOR FIRST USE

- Note that in Section 3.1. mentioned instructions for assembly.
- Now connect the heating panel to a perfect placed and installed pair of socket (note the described instructions above for safety).
- Now the heating panel can put into operation. The heating time is approximately 5 to 10 minutes. If you do not have a pleasant warm climate area, you have to run the heating element for an extended period, as it can be, for the first time, that the cold objects (furniture, walls, ceilings, floors, etc.) only need to warm up.

### 3.3. INSTRUCTIONS FOR REGULAR USE

- Do not place any clothing or other similar items on the heating element (**JAM HEAT AND FIRE DANGER**). An appropriate sign on the front of the panel is mounted and must not be removed.
- When heating up or cooling down the heating panels can be caused by the expansion of a minimal material noise. This is no cause for complaint, but normal.
- The heater is very hot in use. A contact could lead to serious burns.
- All INFRAPOWER heating panels are equipped with temperature sensors that regulate the surface of the unit and prevent from overheating.
- If you do not use the heating panel for an extended period of time, it is advisable to pull the plug.
- The surface of the heating panels should be kept clean. Please refer to the instructions described in more detail in Section 3.4.

### **3.4. INSTRUCTIONS FOR CLEANING AND MAINTENANCE**

INFRAPOWER panels do not require any maintenance. If you find any irregularities, unplug the power cord immediately and contact your dealer, where you purchased the panel.

For cleaning you go best by executing the following steps:

- Before cleaning, pull the plug off.
- The heater is very hot after use (depending on model, up to 125C, BURNING DANGER). Before you clean the heating element, let it cool down first (about 10 to 15 minutes).
- Do not immerse the heating panel for cleaning into water or spray it off. Never use a wet cloth. Clean with a duster or slightly dampened cloth. Make sure that the heating element is completely dry before re-commissioning.
- Do not use abrasives or other harsh cleaning products or rough cloths. Wall heaters with pictures clean dry only.
- For ceiling panels occasionally remove any dust on the top with a vacuum cleaner.

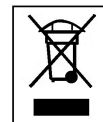
### **3.5. INSTRUCTIONS FOR REPAIR**

- In case of irregularities of the devices, always contact your dealer and do not repair by yourself.
- If a malfunction occurs, immediately disconnect the power cord. Do not use or stop use immediately if the unit is damaged, especially if network cable, housing or heating panel itself are affected.
- In addition, we ask you, to carefully read the described details in section 8 about the details and processing of warranty cases.
- Never remove the label and the warning sticker. The data on the nameplate are of importance for the warranty.

#### 4. TECHNICAL DETAILS

The following information provides general information applicable to VCIR series. Please note additional information on performance, size, and surface temperature at the sticker on the back of your panels.

#### 5. ENVIRONMENTAL PROTECTION



Do not discard packing materials easily. Please note the following:

- Packaging material made of cardboard can be recycled at the waste paper collection or the responsible disposal system.
- Do not give plastic foils or packaging into the hands of children. Please recycle the protective film properly.
- The heater or parts thereof may not be disposed with normal household waste, but must be taken to a collection point for recycling of electronic and electric devices. The symbol on the product, on the packaging and on this manual indicates this.
- With the reuse, recycling or other forms of recovery of waste you make an important contribution to protecting our environment. Please ask for details at your local authority or the appropriate disposal location.

#### 6. DECLARATION OF CONFORMITY

We hereby declare that the product "INFRAPOWER heating panel" to which this declaration relates, is compliant with the following guidelines and standards:

**EN60335-1**

**EN60335-2-30**

**EN50366**

Management of INFRAPOWER MANUFACTURING LTD

A handwritten signature in black ink, appearing to be 'M'.

## 7. TRANSPORT AND DELIVERY

Each individual heater element is, after final testing, packaged securely in suitable boxes and shipped with a freight forwarding company. In order to provide redress for damage during transit, we ask that you, necessarily in the presence of the delivering carrier, unpack the heating panel and in the case notice the damage on the corresponding transport document or packing slip.

## 8. OCCURRENCE OF AN ERROR - SHORT DESCRIPTION

Dear Customer,

Thank you for choosing a product from INFRAPOWER MANUFACTURING LTD. Should it come to a fault with your device, we ask you to first contact the dealer where you purchased the device. Should we not have the problem solved in this way, please send your device back to the dealer and enclose the following warranty card.

- INFRAPOWER provides on all the products a 24-month warranty, from date of purchase. Proof of purchase is a guarantee slip.
- On the color fastness of our motifs, we provide 24 months warranty.
- Excluded from the warranty are external optical defects, beyond the damage caused by improper installation or faulty handling, or removed or obliterated serial numbers or mechanical damage.
- Handling or manipulating by unauthorized third parties voids the warranty claim.
- The warranty covers the repair or replacement of the defective part, but not your necessary expenses.
- We point out that we refuse the replacement if it is related to the removal of defects with a disproportionately high cost (represents the rule).

- The defective unit or part shall be send with a description in original packaging, including accessories and the invoice (copy) and in case of warranty with warranty card to INFRAPOWER. Prepaid items are generally not accepted.
- You get the warranty card with a notation indicated by our service workshop and the repaired unit / part back.



