

# Infrared room heating



**Tested products:** Seals of approval attest to the highest quality, standard-compliant processing and safety standards of our products.

**Quality:** Our infrared heaters, produced from high-quality and durable materials, promise "lifelong" pleasant warmth

**Efficiency:** Through simple and targeted control, our infrared heaters work particularly efficiently and almost loss-free.

**Economical:** Infrared heaters offer economical comfort. No maintenance and service, no additional heating materials guarantee an economical operation of the infrared heating.

**Design:** Our infrared heaters convince with a simple and attractive design. From standard colors to individual design, many things are possible.

**Comfort:** With intelligent controls, our infrared heaters generate heat exactly when you want it or automatically according to a precise plan.



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**a) Infrared wall/ceiling panel**  
**Economical – effective - uncomplicated**



**Energy-efficient heating solution and timeless appearance**

The matt lacquered surfaces are set in a high-quality aluminium frame. Due to the small construction depth of only 18mm in combination with the invisible mounting device, the wall panels literally float on the wall. The radiation-optimized lightweight construction also enables problem-free ceiling installations. By the assigned Flatpanel technology the heating time amounts to only few minutes to the intensive and pleasant infrared heat radiation becomes noticeable.

**Your advantages**

Economical - low operating costs of wall panels

Effective - high radiation components guarantee low connected loads of the wall panels

Uncomplicated - simple installation in portrait or landscape format and due to the low weight also on the ceiling

**Execution**

Pure white with white frame

Light ivory with ALU anodized frame

Crimson red with ALU anodized frame

Anthracite grey with ALU anodized frame

Individual design of the panels in any RAL color or with individual image printing possible



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**b) Mobile heating panels**  
**Flexible – effective - space saving**



**Mobile**

portable infrared panels for flexible use wherever additional heat is required

**Your advantages**

Effective and beneficial

Economical due to optimal heat radiation

Healthy room climate - ideal for allergy sufferers

Pleasant silence - no fan noise

Easy connection via socket at 230 V~

Heating panels can be switched on and off via remote control

**Execution**

Pure white with white frame

Standard colors light ivory, carmine red and anthracite grey with anodized aluminum frame



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**c) Design glass panels or picture panels**  
**Stylish – modern - soothing**



**Design panels**

Enjoy pleasant warmth with the exclusive WMT Design glass panels and underline your individuality and style with the high-quality Softline look!

**Your advantages**

**Stylish** - the frameless design glass panels from WMT fascinate with their unique Softline look

**Modern** - set accents and give your living space that certain something

**Soothing** - Design glass panels invite you to relax through a healthy room climate and individual control

**Execution**

Sapphire glass surface in white, black or mirror

Individual design with picture motif



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#### **d) Infrared Deluxe Design Panels – Y-panel Innovative – exclusive - modular**



#### **Perfection in Design**

The product line fascinates with its exclusive and slim glass look in a high-quality Softline design. The shapely Y-panel in its elegant, frameless and rounded shape lets you experience incomparable infrared heat radiation with minimal power consumption. An elegant heating solution for every living space situation!

#### **The innovative modular system**

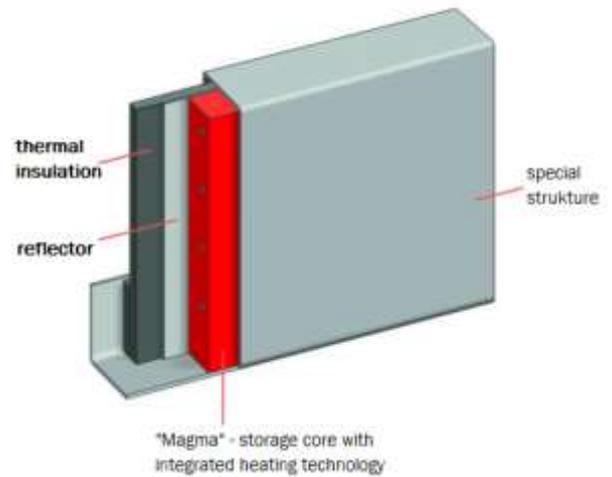
Whether as a stand-alone or main solution - assembly is quick, without complex assembly and guarantees complete user-friendliness. The product line also offers maximum flexibility for every living situation. The modular concept offers many application as well as expansion possibilities with power ratings from 300-1200 watts with only one cable connection.

#### **Version**

Sapphire crystal surface in white



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### e) CALADIA Infrared storage heating Powerful – unique - versatile



#### Caladia

This heating system stands out due to the patented technology with the newly developed and extremely efficient heat storage tank "Magma". Continuous heat output to the room ensures efficient heating, even in combination with photovoltaics, interruptible electricity tariffs and energy management systems.

When the heat demand is higher, the storage heater automatically switches to charging mode and, once the target temperature has been reached, back to energy-saving mode, thus ensuring constant comfort. The stylish Caladia infrared storage heaters convince with high heat storage power and long-lasting radiant heat.

#### Your advantages

**Powerful** - the efficient storage core provides lasting heat

**Unique** - Patented IR technology with the right design for energy-saving storage heaters!

**Versatile** - Convinces in various applications, especially in large, old rooms and as a replacement for night storage heaters!

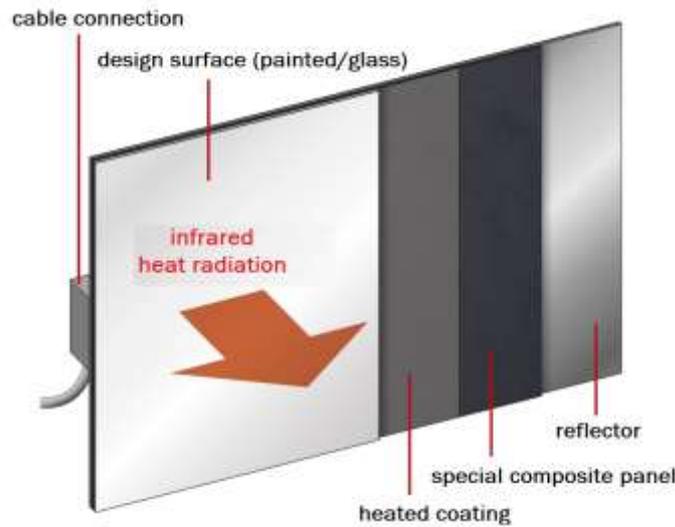
#### Design

**White textured surface**

**Individual design in any RAL color possible**



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## Flatpanel Technology

### WMT Infrared Flatpanel Technology

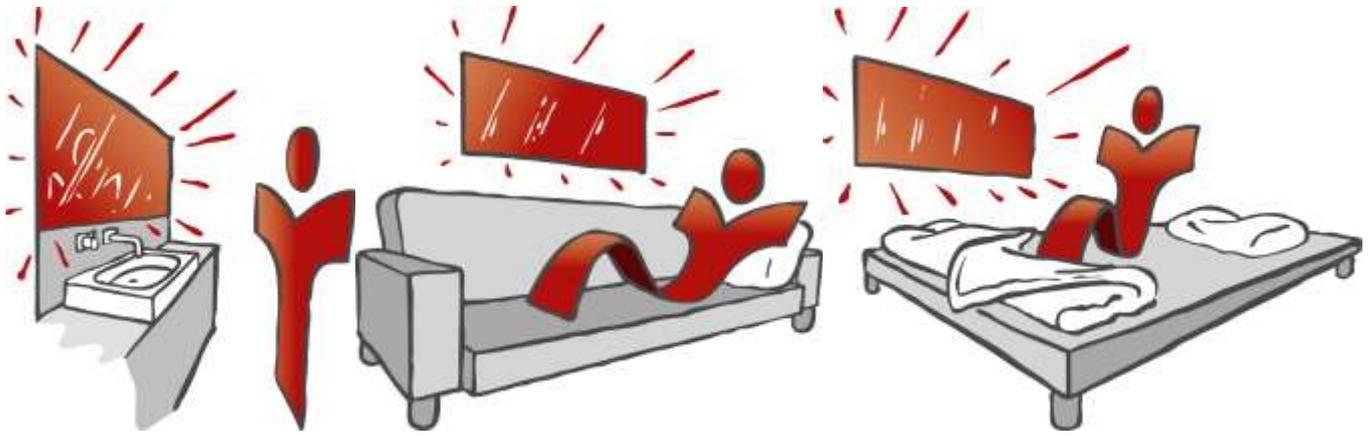
The unique WMT flatpanel technology was developed by WMT to achieve the optimal efficiency. This know-how about infrared radiation is used for different applications. In technical applications such as building dryers, high efficiency is combined with low energy consumption. In the field of room heating and wellness, living comfort and quality of life are defined in a new way. The unique WMT flatpanel technology was developed by WMT engineers in close cooperation with research laboratories. This state-of-the-art technology with a flatpanel construction of only 2mm guarantees maximum radiation with minimum energy consumption. The use of innovative panel heating technology means that no live wires or heating coils are required in the board. By applying electrical energy to the heating board, a uniform core temperature of approx. 85°C is generated. Due to the special properties of the materials used, infrared C radiation is emitted from the board at this temperature and is then emitted into the environment in a targeted manner by means of reflector technology. Thanks to WMT flat panel technology, complete living spaces can be heated with comparatively low power consumption of 300W to 800W. Our know-how about infrared radiation is used for various applications. In the technical fields of application, such as building drying, high performance is combined with low energy consumption. In the field of room heating and wellness, living comfort and quality of life are defined in a new way.

### Tested quality for your safety

- CE-Certification
- TÜV-AUSTRIA type approved
- Certificate of the Seibersdorf Research Center Austria
- EMC test (only 2.2% of the permitted limit value)
- 100,000 hours of trouble-free continuous load testing
- Over 100,000 heating elements in use



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## **Radiant heat**

Experience the pleasant feeling of pleasant radiant heat. Like in winter in front of a tiled stove or on a sunny spring day on a cosy sun terrace, WMT infrared radiant heat creates a pleasant oasis of well-being in your home. Thanks to the latest panel heating technology WMT sets new standards in terms of well-being and energy efficiency.

WMT infrared panels heat solid objects and bodies directly by infrared radiation and not only the air as with conventional systems. Wall surfaces are heated directly and the stored radiant heat is released evenly and gently into the room air. Heat loss and unpleasant drafts and dust turbulence can be avoided to a large extent. Infrared radiant heat brings comfort into your life.

**Many advantages speak for WMT infrared radiant heat:**

**High comfort** - warmth as concept for well-being feeling

**Economical** - benefit from high efficiency

**Healthy room climate** - optimal for allergy sufferers

**As flexible as life itself** - as a supplement or an overall concept

**Modern design** - flat infrared panels as a style element

**Low connection values** - thanks to the latest technology

**Tested quality from Austria** - by TÜV and Seibersdorf Research Center



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# FAQ

## *What exactly is infrared radiation?*

We encounter infrared radiation (IR radiation) every day in the form of solar radiation. Technically speaking, IR radiation is an electromagnetic wave with a wavelength of 800 nm to 1 mm that propagates in free space. Depending on the wavelength, a distinction is made between A, B and C radiation. WMT heating panels generate exclusively pleasant radiant heat in the long-wave C range!

## *Heating principle infrared*

Contrary to convective systems, the infrared heating principle does not use air to transport heat, but heats solid objects and bodies directly (same principle as a tiled stove). The radiated objects store the supplied warmth, in order to deliver it afterwards evenly to the room.

## *Can I also heat an entire house with infrared?*

Even though infrared heating solutions are still relatively unknown in the German-speaking countries, a large number of satisfied customers in other European countries (e.g. France, Scandinavia, etc.) already prove that infrared heating technology is a technology of the future.

Infrared heating panels are ideal for heating entire objects and can be optionally combined with various tiled stove systems.

## *Advantages over heat pumps?*

Compared to the majority of heat pump solutions, the investment costs for complete infrared solutions are considerably lower. In addition, infrared panel radiators offer very flexible control options even in the transitional period. With heating up times of three to four minutes the annual operating hours of the heating panels and thus also the resulting costs can be reduced to a minimum.

## *Advantages over "outdated" convection heaters?*

Heat is generated exactly where it is needed! The even temperature distribution in the room not only achieves high energy efficiency with extremely low connected loads, but also prevents dust turbulence from rising hot air. Enjoy a healthy room climate to feel good with efficient infrared heating systems.

## *Why do some IR lamps emit red light?*

Quartz emitters produce core temperatures of 300 - 500°C and therefore start to glow red.

The disadvantage of this is that the small surface combined with very high temperatures makes uniform irradiation impossible. In addition, large amounts of energy are required to maintain the high core temperatures. WMT heating panels belong to the product group of economical and healthy dark radiators and therefore do not emit visible light.

## *Is infrared radiation dangerous - can it cause sunburn?*

In principle, natural heat radiation is completely harmless. It becomes critical with IR radiation in the short-wave A range. Infrared radiation in the long-wave C range - as with WMT heating panels - has however a proven positive effect on health and well-being.



### ***Do WMT panels generate electrosmog?***

These values have been tested by TÜV - WMT panels reach just 2% of the permitted limit for electrical appliances. In other words, the only electro-smog load is generated by the cable connection (supply cable) and the panels themselves can be operated electro-smog-free.

### ***How high are the operating costs?***

Experience from the heating periods 07/08 to 09/10 has shown that the consumption values are up to 30% below conventional room heating systems (e.g. gas boiler, night storage heater, etc.).

### ***Are these the same panels as in IR heat cabins?***

In high-quality infrared heat cabins, panel radiators with a similar design are generally used. There are differences in the maximum surface temperature as well as the design and installation variants.

### ***Functionality - how is the infrared radiation generated?***

Voltage is applied to a hundredth of a millimeter thick special coating. Full surface so core temperatures of approx. 85°C develop whereby infrared radiation in the long-wave C-range is delivered. A reflector layer behind the heating coating ensures 100% radiation to the front (similar to the reflector of a headlight).

### ***What happens if my child touches or knocks over the panel?***

WMT infrared panels are very resistant - simply knocking over a panel or tripping over a cable will usually have no consequences. Due to the TÜV type test in combination with surface temperatures of max. 85°C, a panel can also be used in the vicinity of children without any problems - there is no danger of burns.

### ***Why are there no controls on Infraot panels?***

Our infrared panels can be used very individually. Due to the modular construction we can offer each customer exactly the control option that is best suited for the respective situation.

**Contact me and get your personal offer now**

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