

Friendly warmth of your home



INFRAHEATING

Infra-red heating system

Product catalogue F+Š MARK

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About F+Š MARK:

The company F+Š MARK was founded in 1994. We deal with the production and packaging of food supplement products and with another business activities. In 2004 we started a development in the area of modern heating, which brings thermal comfort to our homes. Healthy climate and energy saving - this is infra-red heating system. The production program was introduced under the trademark INFRAHEATING.

Infra-red heating system:

Along the development of the civilisation even the heating systems were developed, which had to transform our home climate into the pleasant warmth in our houses. Genius things are mostly discovered in the nature. Infra-red heating works in the same way as the sun. The sun warms up the surface of our planet and then the warm surface warms up the air. Infra-red heating panels are producing a part of the sun energy spectrum in a form of waves - of course without any harmful radiation - which then warm up the walls, the ceiling, the floor and other objects placed in the room and these then warm up the air.

Infra-red waves are a specific form of energy which is physiologically very good rated and is being very good absorbed by a human body. It was proved that the infra-red heating system is a possibility how to save energy when heating.

It is also healthier. Infra-red heating systems do not burn any matters which could produce air-, water-, or any other pollution that could be dangerous for our body. There is no dust whirling in the rooms. Infra-red heating systems operate noiseless. They are decorative and can be always placed in the room. The space in the room is being saved when you use infra-red heating panels. The climate in the room is healthier when you use a radiant element, because no oxygen is burned, the surrounded air does not dry out and dust does not whirl. The heat generates in a carbon element placed in the panel.





Advantages of the infra-red heating system:

- minimal temperature differences between the floor and the ceiling, only 0,4 °C.
- no wastage of oxygen and air humidity, the air is clean and without dust
- the same warmth feeling as by the tile stove
- dry brickwork, no fungi, no electrosmog
- flat panels save space in your rooms
- trouble-free operation
- easy attendance and regulation by a room thermoregulator
- easy control of the energy consumption
- very easy installation
- can be adjusted in every room
- even as a mirror or with a picture motive
- clean and healthy climate in your home
- minimal costs and effort by a redevelopment of older houses and apartments
- saves electrical energy

Disadvantages of the infra-red heating system:

- unsuitable for rooms which are coated with polystyrene
- unsuitable for rooms with a very large glass surfaces - winter gardens
- the operating costs can rise in rooms with an „air space“ in the walls (there can be a gap between the walls and the facing)
- must be projected by a specialist
- unpropriet placement of the panels will affect the energy consumption

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Installation:

Installation of the infra-red heating panels is very easy. In a building under construction you only need to place a separate electrical circuit and then the panels are plugged into this circuit. You of course need to connect this electrical circuit with a thermoregulator in every room. It is always good to place the panel against the outside wall and not against the window.

Electrical energy consumption:

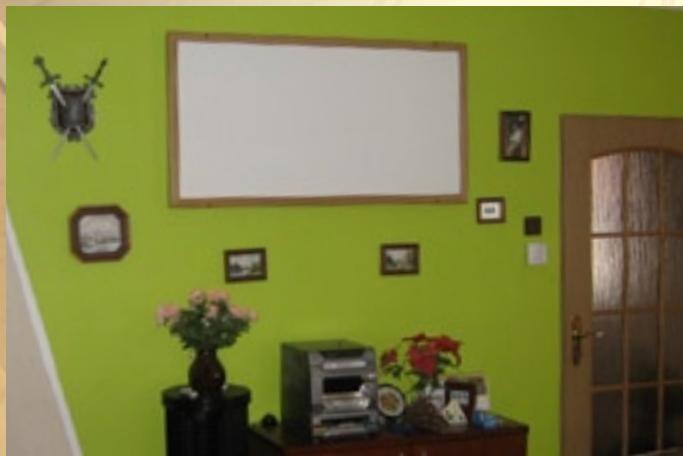
It depends on the materials from which the object is built, but the infra-red heating system is one of the most energy saving form of heating. The approximate consumption is about 80 kWh/m²/year.

An 60m² apartment can be heated by 4700kWh/year.

Purchase costs:

It depends on the facilities, from which materials are they build and of course on the specification of the panels, but generally we can say that the purchase costs are 30-60 €/m².





Element Infraheating - type ITS, security glass, wooden frame.

Infra-red heating panels are produced in various types with various frames. Most common frames are spruce and oak. By request another wooden frames can be delivered. Wooden frames can be also stained.

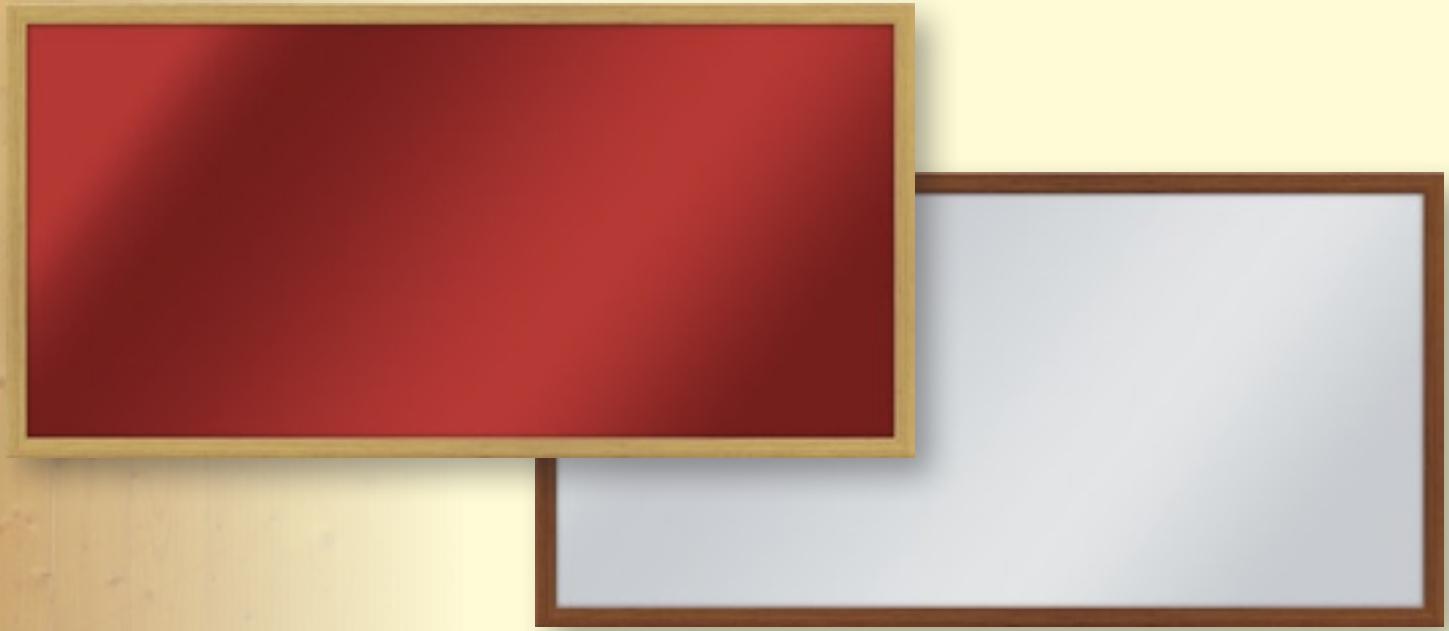
Surfaces of the security glass:

White, red, orange, blue.



Overview:

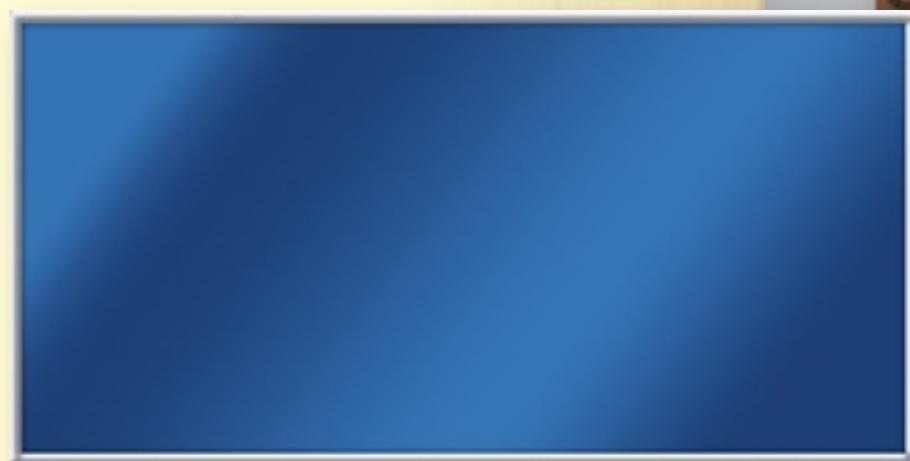
Type	Input (W)	Dimensions (mm)
ITS 200	200	555x555x37
ITS 300	290	655x655x37
ITS 500	480	995x655x37
ITS 750	730	1245x655x37
ITS 1000	960	1845x655x37



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**Element Infraheating - type ITS,
security glass, aluminium frame.**

Infra-red heating panels are produced in various types with an aluminium frame - mat or bright finish.



**Element Infraheating - type ITZ,
basic heating element with
a surface treatment, wooden frame.**





**Element Infraheating - type ITZ,
basic heating element with a surface
treatment, aluminium frame.**



**Element Infraheating - type ITS,
security glass - mirror.**

Elements with mirror are produced only in types ITS 500 and ITS 750 with aluminium frame mat or bright finish. Can be produced with a wooden frame.

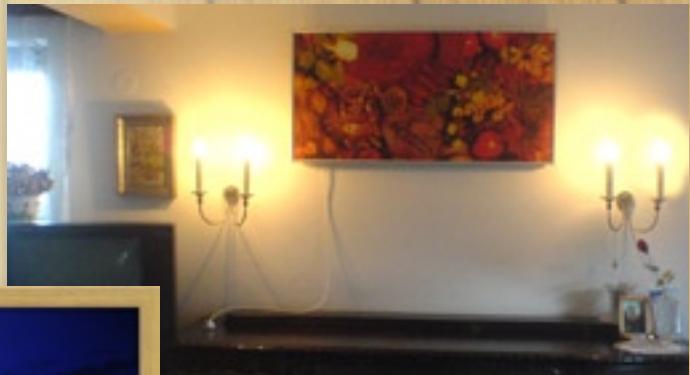


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Element Infraheating - type ITS, picture motive.

Elements with a picture motive are produced in types ITS 300, ITS 500 and ITS 750.

Choose from our gallery, we can also put your own motives on the surface of the panels.



Minigallery Infraheating

The rest of the motives can be found on our homepage:
www.infraheating.com

