



SUN THERM

Infrared Heatingsystem

Intelligent Solution

Infrared Heatingsystem

The Heatingsystem with the power of the sun

The Heatingsystem of the future

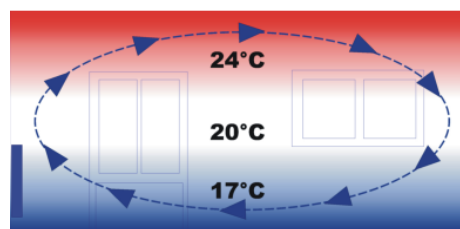
How does **Suntherm** work

The heating panels change electric energy into heat energy . They are used for houses and apartments as well as for stables. A specially material, consisting amongst other of fine ceramic granulate, is used for producing framed panels with a surface between 0,25 - 0,5m² . These white or coloured heating panels are insulated at the backside with an aluminium foil, are fixed to the ceiling and energised by low current.

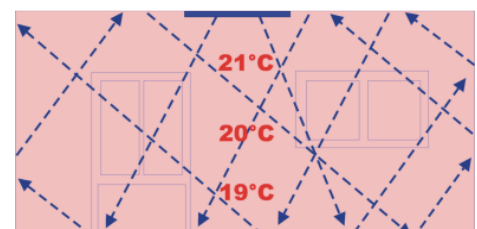
Therefore the emitted IR rays can easily reach all parts of the room and can be absorbed by walls and pieces of furniture. They warm the air without airflow and without dispersing dust.

Moreover they are very efficient (95%).

Convection



SUNTHERM



There is no heat loss if you air the room, because first of all the walls and objects in the room are warmed and than the air, this effect also helps avoiding mildew infested rooms.

For example: If you take a bottle out of the fridge and put it on the table its surface will be wet soon because of the humidity of the air. The same will happen to cold walls if you heat the air first. Contrary to conventional heaters **SUNTHERM** IR heating warms the walls first and helps avoiding mouldy rooms.

Advantages of **Suntherm** Infrared Heatingsystem

- Produced according to CE C
- Noiseless
- Long lifetime
- Environmentally safe
- Maintenance free
- No electromagnetic pollution
- No electromagnetic fields, no wires
- No particulate matter

Environmentally safe, because there is no air pollution

Medicals warn on roomtemperature above 20°C!!

At IR heated rooms you feel at 20°C same comfortable, and have same warmth experienced, as convectional heating systems do at 22-24°C

Efficiency of **Suntherm**

Why is heating with IR emitting panels very efficient?

3 main principles:

1. Maximum output of warmth through radiation
2. The plates are regularly distributed in the room
3. Qualitysafe

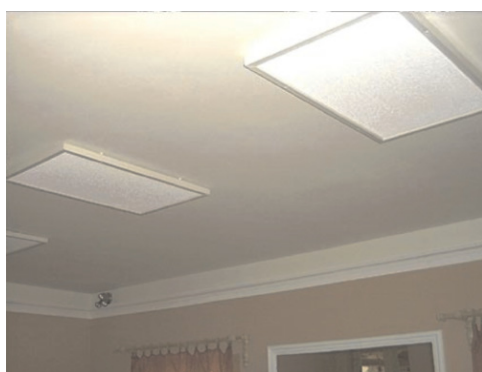
Using **SUNTHERM** IR heating it only takes 15 min. to warm the room. You don't need to heat boilers, radiators, water conduits or rooms which are not permanently used. The rooms get warm very quickly and you can save energy. Because the experienced warmth using **SUNTHERM** IR heating panels is higher (about 3-4%), you can use central or individual temperature control. Up to 60% in autumn and spring and 30% in winter.



Common heating systems require 15 – 20 KW for a room with 150m². Using **SUNTHERM** you only need 9 KW. Compared with traditional heating technology **SUNTHERM** is easy to install, save energy and have a long life time.

Saving Energy with **Suntherm**

SUNTHERM panels emit IR rays which warm walls, furniture and objects in the room. By using these panels you can keep the room temperature 4o C lower than with common heating systems and it takes only 25 min to heat the room. The digital control program helps you keeping the costs low. You can save 60% in the transitional period and up to 30% in the heating period.



SUNTHERM can be placed for punctual heating also in churches, offices or at cashier desks in order to warm the back and feet of people



Contrary to all other heating systems at SUNTHERM there is:

- a) No high acquisition costs
- b) no dangerous or hazardous components
- c) no separate rooms necessary, for fuel-tanks or heaters and pumps
- d) no long period to heat up the room

instead there is:

- a) the heat spreads quickly because it is reflected by furniture and objects
- b) it is very efficient because it does not only warm up the upper part of the room
- c) you feel warm earlier (less 4° C)
- d) with IR radiation emitted by **SUNTHERM** you feel like sitting in the sunshine

Using common heating systems make it necessary to keep the room temperature higher because air is a bad heat conductor. The warmer the air, the drier it gets which is bad for your skin, your sleep and your respiratory system. Moreover dust is constantly dispersed by air convection.

Keep in mind:

1. IR does not only warm superficially
2. stay healthy with lower temperature
3. no mouldy humidifiers
4. good for asthmatics, rheumatism and allergic people
5. your feet and your back is warm as well
6. environmentally safe
7. newborns, kids, juveniles as well as elderly people need a healthy climate which you cannot achieve with conventional heating technology.

