



PRODUCT INFORMATION

SALZ+SALZ™
VITAL
OFEN

Handmade in Austria

Discover the unique SALT VITALHEATER which combines modern infrared heating technology with the natural warm storage capacity from „Himalayan“ salt. The idea for this was born from the observation and further development of conventional salt lamps.

Our vision was to combine its cosy light and pleasant warmth with infrared heating technology. Finally, we created handcrafted individual items from „Himalayan“ salt bars which combine an appealing design, a cozy source of warmth, as well as an efficient way of heating in a unique and new way.



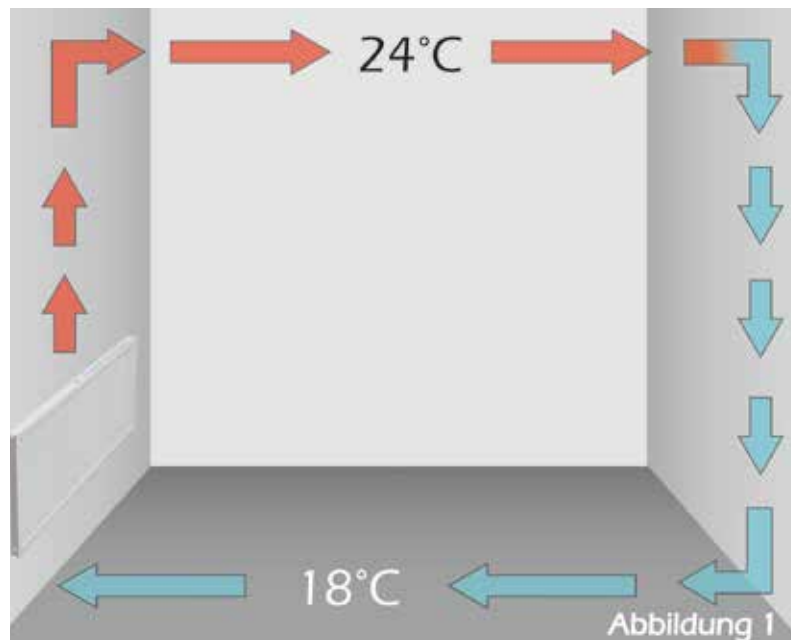


MODERN HEATING ENGINEERING

Comparison of conventional and infrared heaters

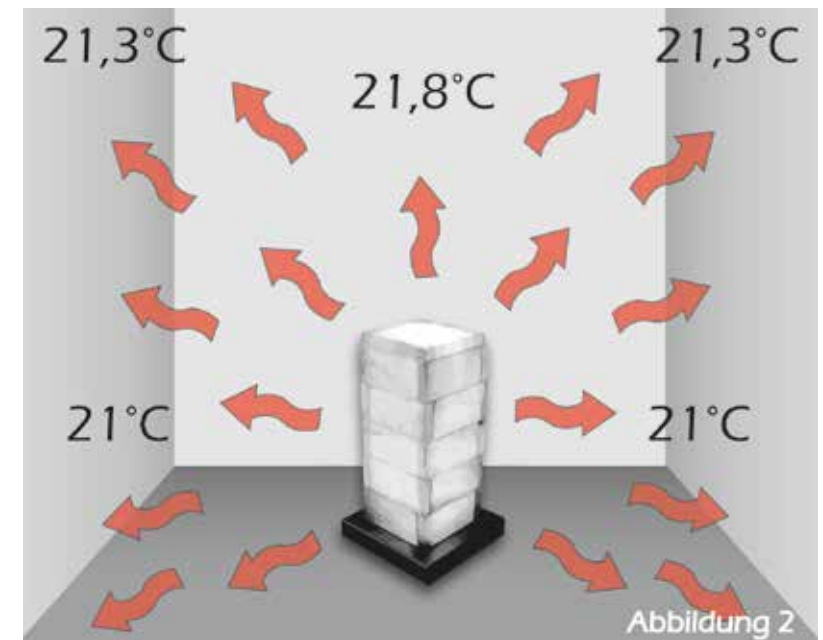
Conventional heating systems usually heat the room air which gives people an increased feeling of warmth. However, this can have a detrimental effect in many ways:

- Warm air rises causing dust particles and bacteria to be stirred up. In addition, a draft can also develop.
- As illustrated in Figure 1, a so-called warm-air cushion is created directly under the ceiling while it remains relatively cool on the floor.
- In addition, an unpleasant room climate can occur which can lead to respiratory illnesses and allergies during the colder months of the year. Especially when damp air condenses on the walls – A consequence of this can also be the formation of mold – the air itself dries up.



In contrast to conventional heaters, infrared heating systems offer the following advantages:

- An even distribution of temperature in the room and no accumulation of heat under the ceiling (Fig. 1).
- Since infrared rays do not dry out the air, a higher level of humidity is present. As a result of their wavelengths, infrared radiation is not hindered by moist particles present in the air and thus contributes to a more pleasant room climate.
- Direct infrared radiant heat creates a pleasant feeling of warmth at a lower air or room temperature (Fig. 2)





How infrared heaters work

As illustrated in Figure 2, infrared heat rays do not heat the air itself but penetrate it and thus only heat the desired objects or zones. Moisture embedded in the walls is released which prevents the growth of mold. The room climate is also improved at the same time as moist air has a positive effect on our respiratory tracts. The heating of walls and other objects by infrared radiation not only generates primary waves emitted from the heating itself but also secondary waves from objects and walls. A pleasant warmth is circulated in which one feels all around comfort ensuring warm feet but a cool head.

THE SALT VITALHEATER

- Simple to install: One power outlet is sufficient
- Convenient operation: Dimming and LED illumination
- Immediate radiant heat: Enjoy direct warmth
- Lasting warmth effect: long-lasting heat dissipation through the salt bricks
- Low operating costs: Cost-effective combination of infrared radiation and salt as a heat storage medium
- Efficient energy supply: Provides warmth even at low wattage (from 300 W)

SALT AND INFRARED

Salt begins to melt at 800° C (1,472° F) and is perfect as a heat storage medium. As soon as the SALT VITALHEATER is placed into operation the radiant heat of the infrared heating lamps is immediately noticeable. When the salt brick has warmed-up after half an hour a thermal storing mass is created which continuously radiates heat throughout the surrounding area. The average temperature of the salt brick is reached at 95° C (203° F) in a fully heated room. Even if the heating lamps are dimmed, a large part of the heating radiation is retained.* The watt strength of the infrared heating lamps (300-2000 W) is significantly lower than that of conventional electric heaters. For the first time this makes electrical heating as an economically affordable option.

**See the Vienna Displacement Law*

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Vienna Displacement Law

The Vienna law states on the one hand: If the wattage, i.e. the power consumption or current consumption is reduced from an infrared heat source then its heat radiation is reduced to a lesser extent than one would expect from the light intensity reduction. Although the brightness changes, the intensity of infrared heat radiation is only slightly reduced due to the so-called shift of the radiation maximum.

Energy efficiency of the SALT VITALHEATER

The SALT VITALHEATER is characterized by its high energy efficiency. For example, it requires only 1000 watts average for heating a room with approximately 20 m² (215 square feet). The lamps of our heating system produce heat by means of long, medium and short infrared rays immediately after switching it on. The directness of the warmth helps to save costs that are otherwise required for preheating and thus offers real efficiency benefits. The intensity of our modern infrared lamps can also be dimmed. Although the brightness changes, the intensity of infrared heat radiation is only slightly reduced due to the so-called shift of the radiation maximum.*

**See the Vienna Displacement Law*



Low power consumption

A SALT VITALHEATER with 1000 watts would during continuous operation result in energy costs of approximately 5 Euros per day. With an average use of approximately 14 hours per day (during the night heaters usually remain switched off and use the stored heat) and dimming the infrared lamp to an average of 50% of its capacity, the costs are only about one Euro per day. These costs result from 3 x 1.5 hours per day of full heating capacity and a dimming to 30%, i.e. 300 watts during the remaining time. In addition, the savings are increased by the thermal storage capacity of salt which has already been mentioned. With this stated power consumption, a room with approximately 20 m² to 25 m² (215 to 269 square feet) can be heated without any problems.

Comfortable warmth

Thanks to the latest technology, our salt vitalizing heaters emit only from the most effective parts of the solar heat spectrum. This creates a feeling of heat similar to that of a typical European masonry heater. In contrast to a masonry heater, our heating system has the advantage of a clean, efficient and uncomplicated supply of energy.

As mentioned earlier, secondary waves as well as primary waves cause walls and objects to become large surface heaters themselves. This heating of the „envelope of the room“ and the objects contained within it creates a large heat reservoir.

Easy installation – no maintenance costs

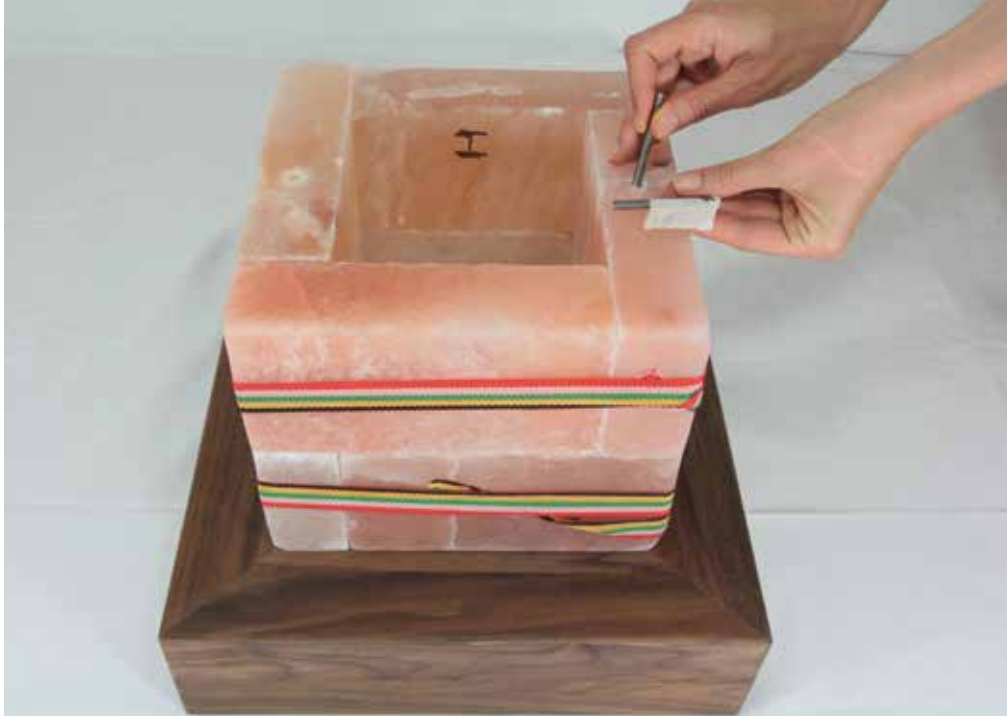
Infrared heating costs are about half the cost of conventional heating systems with maintenance and other incidental expenditures being eliminated. The construction is simple, fast and clean because no infrastructure has to be created (such as pipelines, chimneys, etc.). Neither laying of pipes nor the cost-intensive purchase of a boiler is necessary. Our SALT VITALHEATER can also be used everywhere as a flexible auxiliary heater with low initial costs, without permits and without having to haul or carry wood.



HANDMADE IN AUSTRIA

Our SALT VITALHEATER is produced in Austria with a high degree of purely handcrafted work and with the utmost care. This allows us to best meet the requirements of the valuable natural material „Himalayan“ salt and guarantee the lasting quality and sustainability of our products. Our company philosophy is based on the principle of only using the best and most natural materials from fair trade commerce. We also rely on domestic production and the support of the local community.

- Modern auxiliary heaters – easy to install almost anywhere
- Handcrafted individual pieces for exclusive interior design
- Practical use and elegant shape
- Unique lighting effects as a result of the interplaying of colors by the „Himalayan“ salt bar
- Cozy atmosphere combined with pleasant comfort
- Exclusive design and custom-made; tailored to your wishes – A variety of models can be integrated into any room





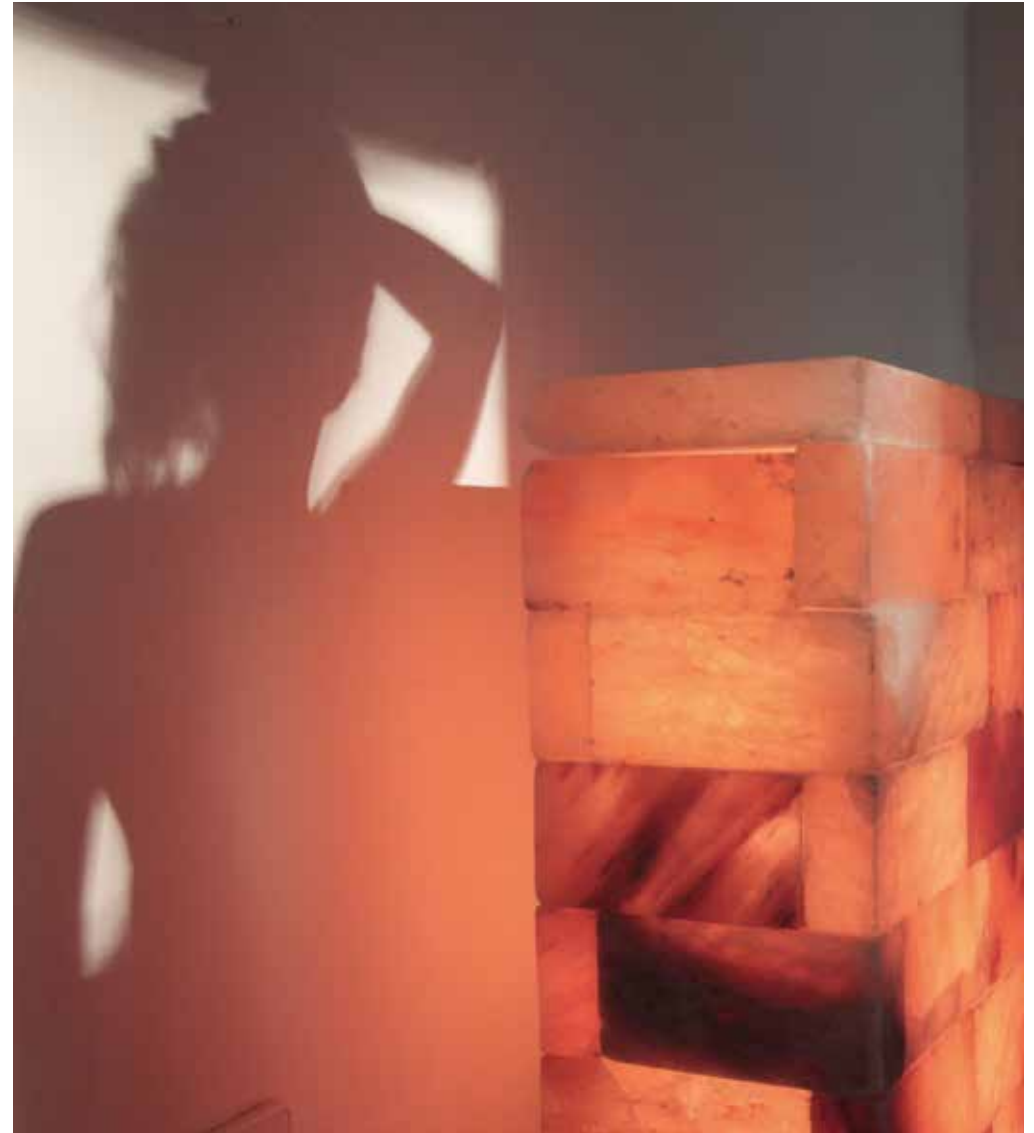
A HEALTHY INDOOR ENVIRONMENT

- Positive effect of salt on the respiratory system:
Sea climate at home
- Higher humidity level: Existing moisture is withdrawn from walls and at the same time avoids formation of mould
- Fewer dust particles and allergens: Reduced air circulation through infrared heating*
- Health promoting effect: As a result of the therapeutic effect of infrared light

**in comparison with the convection heat of conventional heating systems*

Improvement of air in the room

Through the introduction of „fine mist“ from salt in the room, i.e. releasing of salt ions into the room air, a climate effect similar to that by the seaside is achieved: due to its hygroscopic properties, salt attracts moisture which is present in the air. When the salt heater is heated the attracted moisture evaporates and is now enriched with salt ions.





The therapeutic effect of infrared light

As early as 1967, Dr. Tadashi Ishikawa designed in Japan the first model for an infrared-heating booth. This idea was finally made available to the public in 1981.

Being that infrared heat has a positive effect on the human body and its immune system, it has been successfully used since then not only in private households but also by doctors, sanatoriums and clinics. **Some of the utmost positive effects of infrared radiation are:** increased blood circulation of the skin, strengthening of the body's own immune system as well as stimulation of metabolism and advancement of the purification process.

Infrared rays penetrate the air but do not allow dust to circulate like conventional heating systems. This results in hardly any dust. Rheumatism patients and allergy sufferers react extremely positive to this. Apart from the fact that mold and the formation of spores are prevented but can also be rectified, neither house dust nor pollen or bacteria are stirred up. Low-dust and humid air, which is produced by heating the walls and the resulting release of moisture, is a great relief for people with asthma or other respiratory diseases. When the infrared rays reach the human body they have a positive effect on the organism and the immune system. The latter is especially strengthened and can therefore better deal with negative external influences such as electromagnetic pollution.

Preventing the growth of mold

Since infrared rays do not directly heat the air but instead heat objects (particularly walls and masonry), any moisture present in them will be absorbed into the air proceeding from the warmer to the colder element. Walls as opposed to air can store heat for a very long time and the heat is gradually released in the living space. The walls remain dry and mold which may form in a damp area cannot spread. As a result, the growth of mold can be effectively prevented or reduced if damage has already occurred.





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European Patent Pending

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