

Cooling and heating as a perfect combination

Cooling or heating? Variotherm's surface heating and cooling systems can do both. After all, comfort and a pleasant and healthy indoor climate are important when both heating and cooling. In addition to ensuring comfort, these product solutions are energy-saving low-temperature systems that are completely silent and free from draughts.

Anyone who has ever dealt with heating and cooling as part of the construction or renovation of buildings will soon realise one thing: heat is not just heat.

Because the difference lies in the comfort. The horizontal radiant heat produced by surface heating systems provides a cosy indoor climate that can only otherwise be produced by tiled stoves. The radiant heat is comparable to the pleasant rays of the sun and produces a cosy feeling in the human body.

Comfort through balanced indoor temperatures

Although a person's sense of comfort is very individual, all people have one thing in common: it is important that the heat produced by the human body is evenly dissipated in all directions. If too much heat is removed from one side by cold surfaces or the dissipation of heat is hampered on one side by convection heating, this is perceived as uncomfortable. It is also essential that all surfaces enclosing the space have a uniform temperature.

Heating and cooling in a single system

Surface heating and cooling systems create a cosy atmosphere throughout the year in living spaces and offices. The very same heat transfer system that provides radiant heat during the colder months also provides cooling that removes heat from the room and thus the body, thus creating a pleasant climate similar to being in the shade of a large tree. Although all surface systems from Variotherm can generally provide heating and cooling, in particular the wall and ceiling heating/cooling systems have proved to be optimal combination products and provide an excellent supplement to underfloor heating. In order to attain mild indoor temperatures in summer, chilled water (about 17 °C) is fed by means of a heat pump into the pipe system.

Also important in retrospect

The ceiling, wall and floor systems can also be installed in drywall construction systems and are therefore ideally suited for retrofitting or for minimally invasive refurbishments. The rapid and easy installation of the module panels also enables their implementation in existing buildings.

Flexible in design

Perceptible but invisible. The surface heating and cooling systems are integrated into the room design and thus optimally fit all structural conditions. There are therefore no limits to your design ideas. The aluminium composite pipes can always be located quickly and easily using the pipe locator or thermofoil.

PRESS RELEASE

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About Variotherm

The family-owned company from Lower Austria develops and sells ecological and economic surface heating and cooling systems. The range covers individual solutions for solid and drywall construction in seven different product categories. Depending on the system, consulting and sales are performed by professionals such as installers, architects and drywall construction specialists. www.variotherm.at

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