

Radiant cooling

Highest comfort in summer



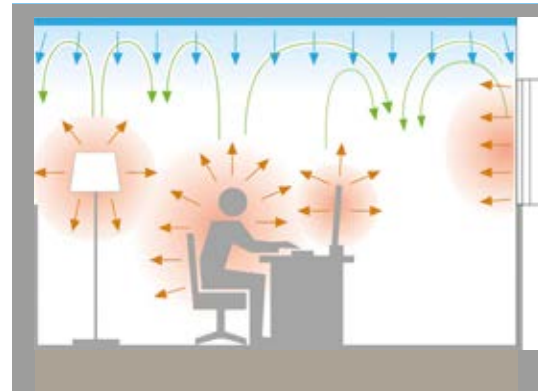
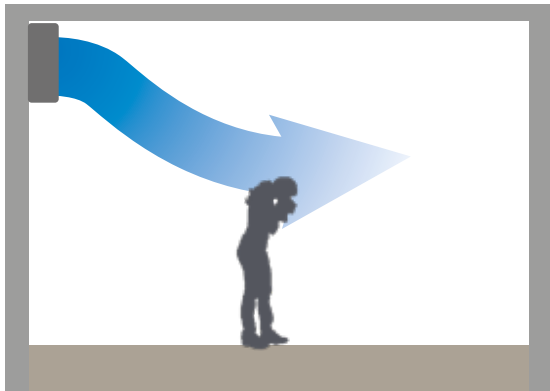
Comfort and efficiency all year round

Summer cooling requires a system that is both comfortable and healthy, as well as able to guarantee high performance together with a reduced energy consumption. Radiant surface systems are not only considered as the best heating systems for winter but also as an excellent solution for summer cooling.

A single, invisible and low-energy-consumption system allows users to create the best living environment all year round, with no need of any additional installations.

Rooms climate-controlled by this system are comfortable, spacious, and quiet, ideal for family well-being, with no unpleasant draughts, currents of air, or dust.

Radiant cooling enables users to achieve uniform temperatures and the required level of heat exchange between the human body and their surroundings. Furthermore, it eliminates the annoying streams and currents of air typical of traditional air conditioning systems.



b!klimax radiant ceiling

b!klimax is an integrated heating and cooling system that exploits the ability of ceilings and walls to exchange heat and cold with the environment and with people by thermal radiation. In this way the human body can perfectly balance its heat exchanges, increasing the level of perceived comfort.

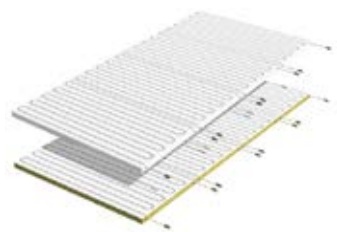
Available in various versions with a metallic finish, plasterboard, or fiber-reinforced gypsum, it ensures the ideal climate in both residential and commercial buildings, whether in new constructions or renovations. It is particularly suitable when limited space makes underfloor system installation difficult, in buildings with high ceilings, or in spaces where preserving the existing flooring is desired.

Invisible, versatile, and easy to install, it provides maximum comfort in every season, a healthy indoor environment, open spaces, and high energy efficiency.



b!klimax Traditional System

b!klimax traditional system is a ceiling and wall heating and cooling system with **lightweight and easy-to install panels**. The panels are made of molded polystyrene covered by a layer of fibrous plaster and designed to accommodate Ø 6 mm pipes.

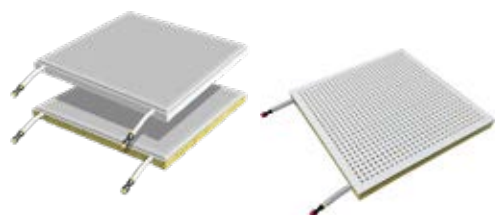


b!klimax 8+ HP System

b!klimax 8+ HP system is a ceiling and wall heating and cooling system with high thermal performance. The panels feature an aluminium diffuser, Ø 8 mm piping and a plasterboard finish.

b!klimax AIR+ System

b!klimax AIR+ system is a ceiling and wall heating and cooling system which has been conceived to ensure **cleaner and healthier indoor air**. The panels feature an aluminum thermal diffuser, Ø 6 mm piping, and a special plasterboard that captures and neutralizes indoor pollutants.



b!klimax Quadrotto system

b!klimax+ Quadrotto system is a ceiling heating and cooling system for **fast and easy installation in commercial buildings**. It consists in metal or plasterboard tiles suitable for inverted T-shaped suspended ceiling grids of 15 and 24 mm. Pipe Ø 6 mm is fixed to the radiant panels through an aluminium metal diffuser.

Underfloor heating system

The underfloor radiant system uses water circulating through a network of pipes positioned beneath the floor. Heat and cooling are primarily distributed through radiation, ensuring uniform temperature distribution, enhancing physical well-being, and reducing energy consumption.



Cover System

Cover is an underfloor heating system consisting of a panel with excellent **thermal insulation, high mechanical resistance, quick installation** times, and great versatility. Suitable for various applications in residential and commercial sectors, it can be used for both heating in winter and cooling in summer.

Dehumidification

Keeping an appropriate humidity level is essential for the proper functioning of radiant cooling systems. It not only ensures comfort but also prevents condensation on cooled surfaces. For this reason, it is mandatory to always combine radiant cooling systems with a dehumidifier that removes excess humidity.



RNW 200 S and 200 SI

RNW 200 S and 200 SI are ducted isothermal dehumidifiers for horizontal installation in the false ceiling. Already equipped with plenum and made with an EPP casing, they are **lightweight, easy to handle, and simple to install**. The electrical panel, visible from the bottom, facilitates maintenance, while the use of the new refrigerant gas R290 helps reduce the machine's energy impact.

In the SI version, the dehumidifier can provide additional summer sensible cooling.

Regulation






To keep humidity under control and respect temperature parameters in radiant cooling systems, it is essential to use an appropriate control system. This system not only manages comfort conditions but also maximizes system efficiency and optimizes energy consumption.

CoRe System

CoRe System is a simple, connected control system for heating, cooling, and air handling systems. With just a few easy-to-install components, it efficiently manages small residential systems as well as more complex solutions with multiple zones and centralized energy production.



Benefits of CoRe System:

-  Composed by a few configurable elements
-  Intuitive, easy to use, and quick to set up
-  Usable from small to large applications
-  Allows management of comfort from mobile devices
-  Ensures the desired comfort while optimizing consumption



the advantages:



High comfort and uniform temperatures



A unique system for heating and cooling



No air drafts and a healthy rooms

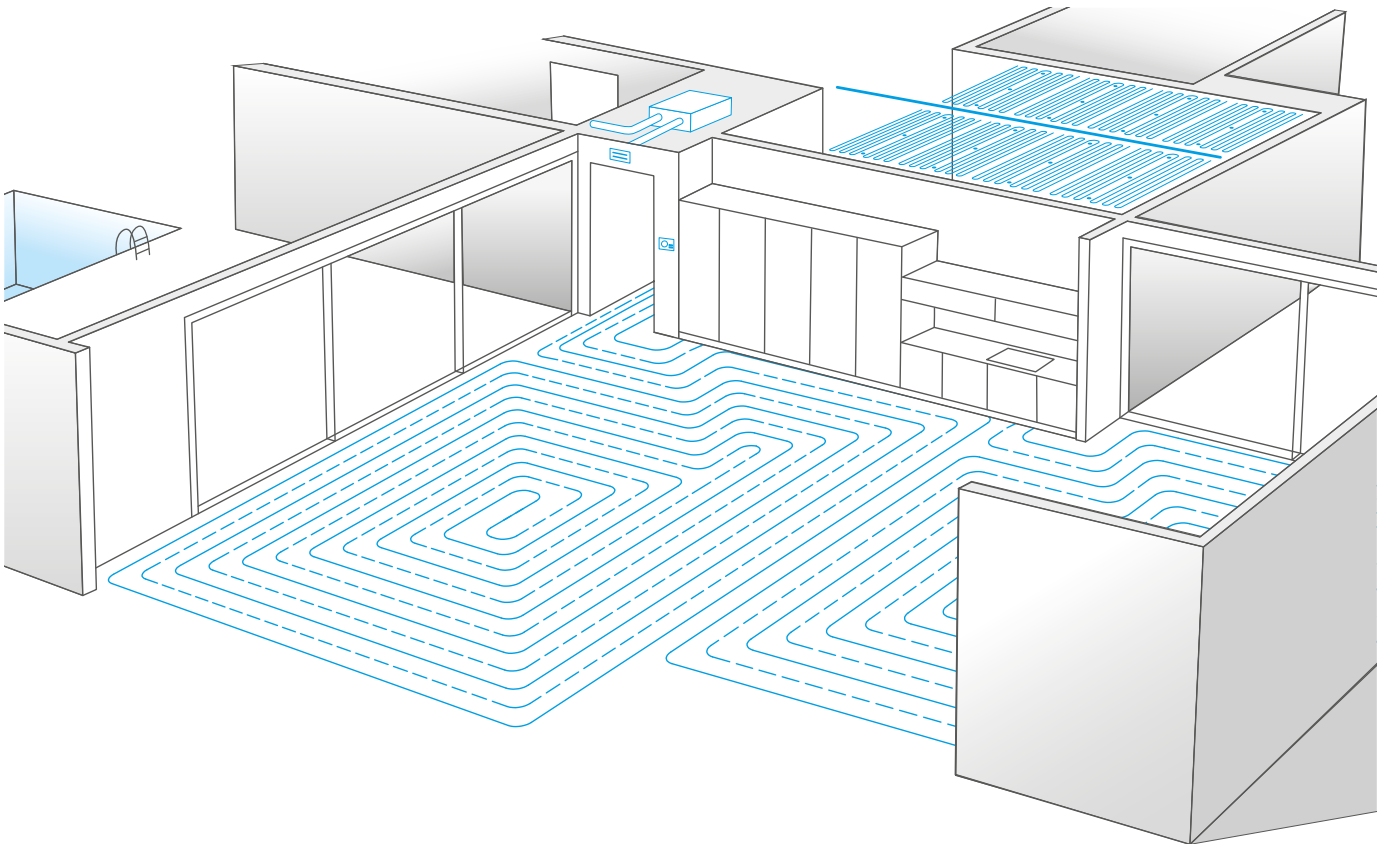


Energy saving

Perfect balance of elements

In order to obtain the best possible performance and comfort from a radiant surface system it is essential that the three main parts of the system have been specially designed to be highly integrated:

1. **The floor or ceiling radiant system**
2. **The thermoregulation system**, which manages water and air temperatures as well as indoor humidity levels
3. **The air treatment system**, essential for dehumidification





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