

The system of radiant ceiling

Comfort and energy saving

The system is synonymous with comfort. The uniform distribution of heat and cold, transmitted by radiation from the ceiling, provides a homogeneous temperature distribution within the environment, without the presence of annoying jets of cold air.

It's a low temperature system, which allows significant savings on operating costs and allows the use of alternative energy sources and ecological.

Hygiene and aesthetics

The absence of convective motions, generated by the temperature difference between the heating body and environment, eliminates the problem of the movement of dust and impurities in the air, helping to increase the healthiness of the premises.

The system is integrated invisibly in the ceiling

This ensures maximum freedom of furniture and lets you use all the available space, improving the aesthetics of the rooms.

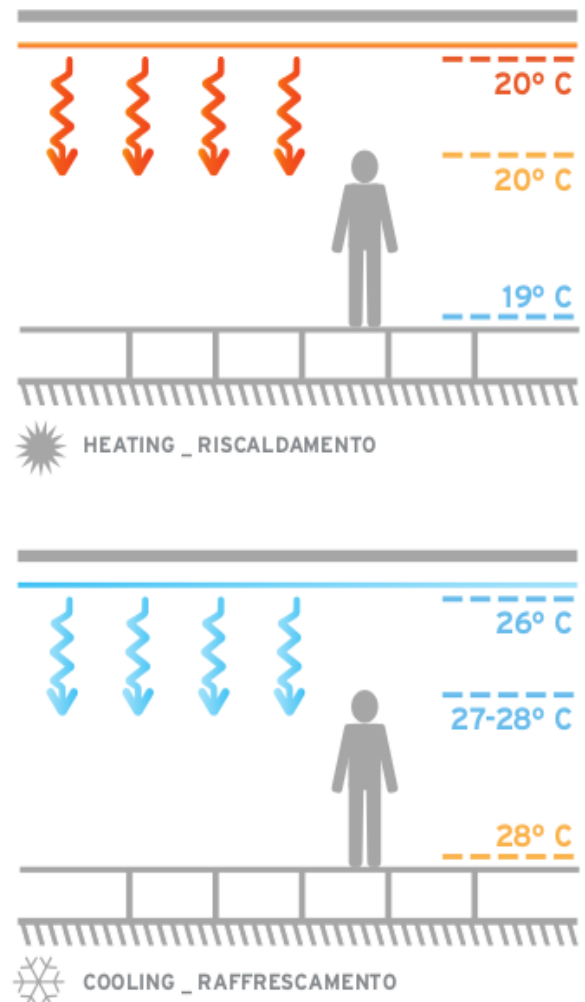
Very low thermal inertia

Despite being a radiant system large exchange surface, the system has a very low thermal inertia that allows to handle it in time slots, such as an air system.

Installation convenience and freedom of coating

The modularity of the system and the reduced number of components makes installation fast and simple. Furthermore, the panels are light and easy to handle.

The radiant system can be coated with any type of material: plasterboard of all types, cement-based plaster, lime plaster, glue and tiles etc.

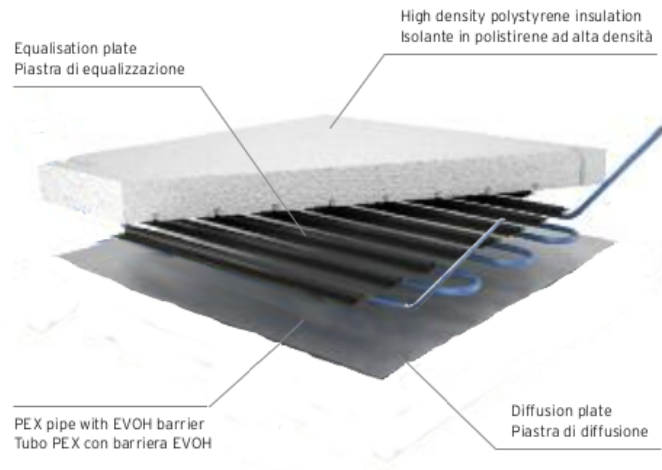


The proposal CBI Climate:

CBI is now also known for the study of innovative systems for the benefit of its customers and installers. In this we have integrated our metal ceilings with a panel of high-performance heat transfer. Are so born the systems Metal radiant for heating and conditioning of environments.

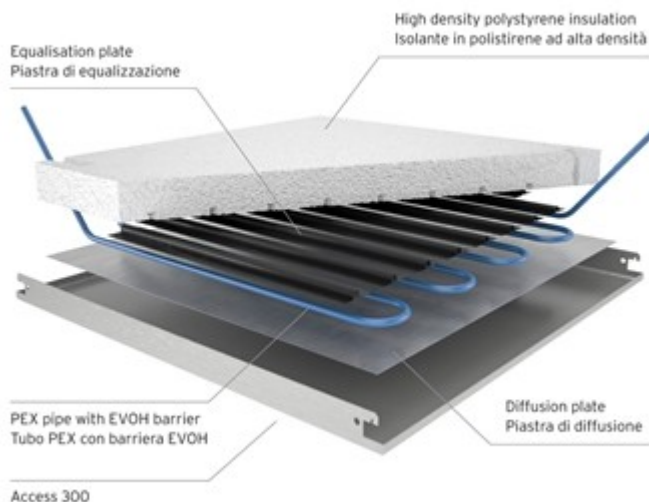
Radiant panel ultra-high performance

From the stratigraphy to the left appears evident the use of diffusers that wrap around metal pipes which lead the carrier fluid. This design decision, even if expensive, produces, as is easily understood, a remarkable performance of the system combined with a very short time of heat transmission.



The large surface of heat distributed homogeneous avoids thermal stress to materials increasing the stability of the materials and the duration of the system over time. The insulator, finally, ensures that almost all the heat supplied to the panel goes toward the metal distribution avoiding waste due to unwanted transmissions of heat to areas not of interest.

Excellent also the performance of the system in the summer which, using a small temperature difference between the panel and the environment, produces a sort of pleasing cascade of fresh from the ceiling towards the user without it becoming ever an unpleasant sensation of cold.



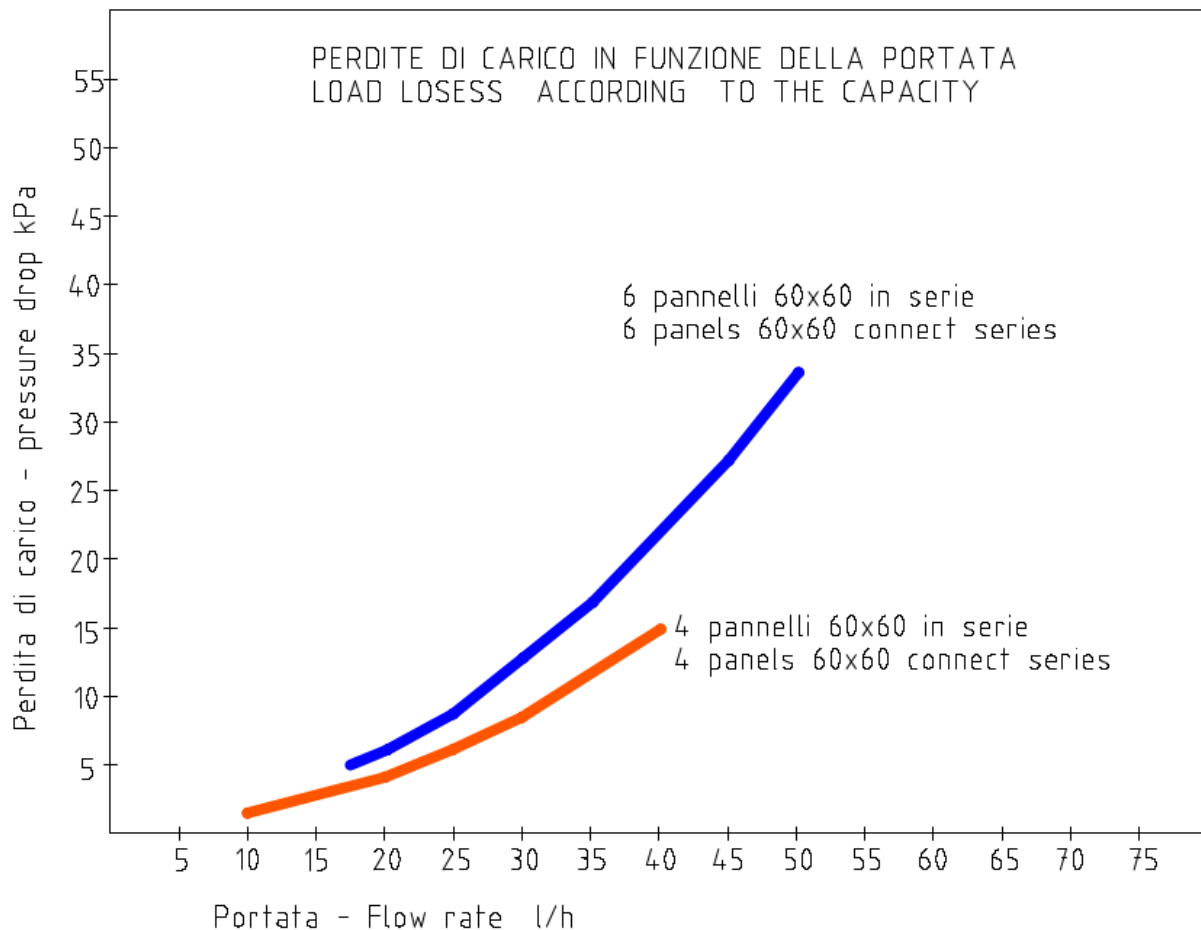
Technical Specifications

The radiating panel is composed of a polystyrene insulation thickness of 30 mm are inserted where a system of diffusion of heat to steel fins which surrounds the pipe type PE-X d.8 x 1 mm with barrier Evoh that conducts the carrier fluid .



The outlet piping from the panel are compeltate with an anti-occlusion, isolation from a closed cell polyurethane and a junction joint type fast-plug.

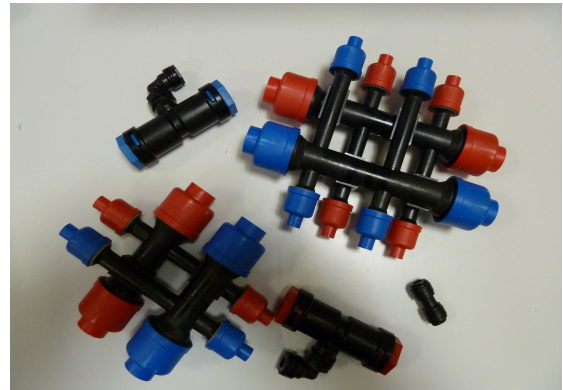
Connections of the panels



The connections between the panels are realized by means of a quick-coupling connector included in the panel.

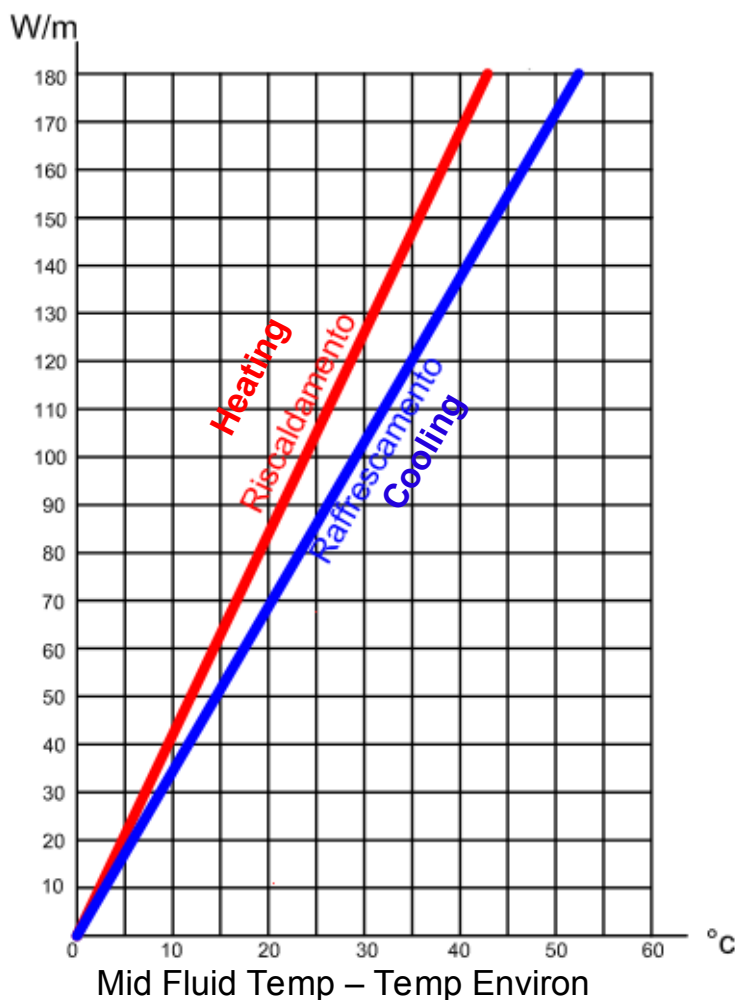
The connections between the series of panels are made Via The quick connect couplings and related to pre-insulated pipes from 20 mm polyethylene.
And 'advisable to use pipes in PE / AI / PE insulated.

The connecting pipes (d.20) should then be connected to the power producer through a collector or distribution ramified.



The following table shows the performance of the Radiant Panel as the value of an area of expanded (not for the single panel, but a series of panels continued). The graphic was created by the standard UNI EN 1264.

Performance by standard UNI EN 1264:



note: CBI Climate can change the product specifications without notice.

This is product by:



a trademark of:



HI-TECH INTERIORS

CEILING & COVERINGS - RAISED ACCESS FLOORS - DEMOUNTABLE PARTITIONS

CBI Europe S.p.A.

via Mons.Romero, 14 - 60027 Osimo (AN) Italy

phone +39 071 7108688

fax administration +39 071 7108635

fax orders +39 071 7108561

www.cbi-europe.com

member of

