

EFFI



CUPRUM

ACTIVE CEILINGS WITH
HEATING AND COOLING

EFFI CUPRUM ceilings are a universal system for heating and cooling.

3-in-1

EFFI CUPRUM combines a heating system, cooling system, and the ceiling of the room. The modules can be built into any suspended ceilings, or can be placed freely indoors. Thus, just one installation is carried out on the object instead of three.

Creating a comfortable climate all year round

Operating with all common heat and cold sources, the system creates a comfortable temperature in both heating and cooling mode.

Interior design possibilities

Modules sizes correspond to the standard sizes of suspended ceilings. The system can be applied in any room with a suspended ceiling, and it will be completely invisible. EFFI CUPRUM ceilings can be of any color according to the RAL standard.

Superior comfort

EFFI CUPRUM ceilings are a silent system that does not create drafts, dust movement and allows you to create a comfort temperature. Moreover, there is no need for its maintenance.

Energy efficiency

EFFI CUPRUM reduces the cost of reaching the required temperature by an average of 30%, compared to air heating and air conditioning systems.

Operation with heat pumps

In heating mode the system operates from a temperature of 35°C, which creates ideal conditions for highly efficient operation of heat pumps. In cooling mode, to prevent condensation, the cold carrier temperature is not lower than 16°C. It also conduces to the high efficiency of heat pumps or chillers.



EFFI CUPRUM

Active ceilings made of steel, copper and aluminum with heating and cooling.

Specifications

Depending on the specifics of the room and needs, the modules include 4 copper pipes or 6 such pipes, model CUPRUM4 and model CUPRUM6 respectively.

At the basic operation of the cooling system, the modules are not equipped with insulation. If the main operation is heating - from the top on the module insulation is mounted.

The metal working surface can be perforated: for design purposes and to improve the acoustics in the rooms - insulation in this case acts as a sound absorber.

Ceiling modules are available in four lengths - 1200, 1800, 2400 and 3000 mm, and a standard width of 596 mm. It is possible to make modules in any size optionally.

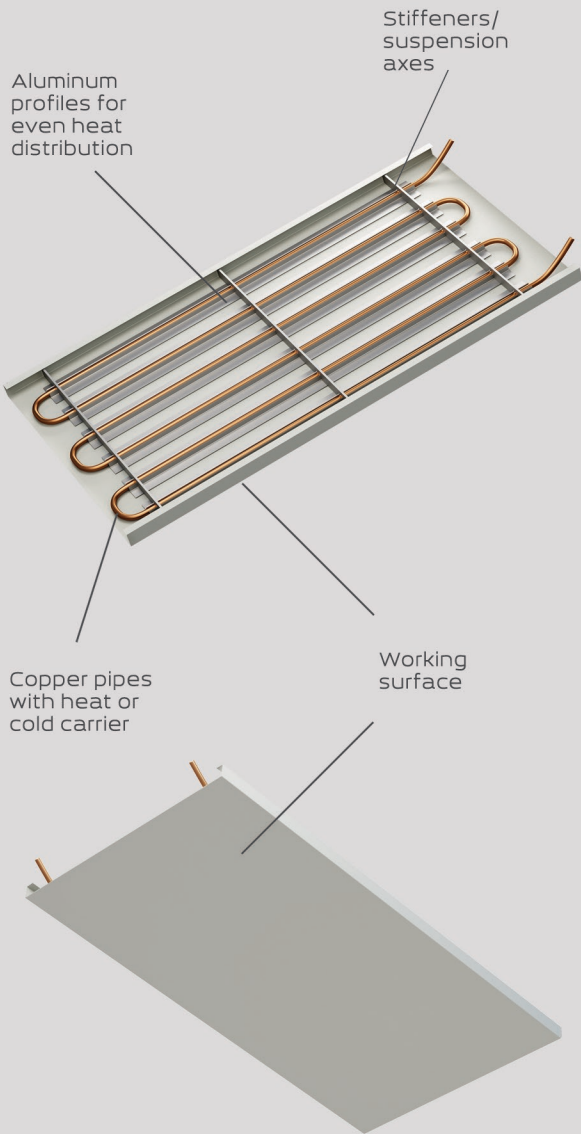
The standard model is made of steel painted in white color RAL 9003. Other colors according to the RAL catalog are available as an option.

Single panels should be connected in series until the recommended maximum pressure drop of approximately 27 kPa is reached.

Model	Weight, m ²	Heating power at $\Delta t = 55K, m^2$	Cooling power at $\Delta t = 10K, m^2$	Maximum operating pressure
CUPRUM4	11,1 kg	369 W	83 W	10 bar
CUPRUM6	13,4 kg	399 W	94 W	10 bar

Maximum operating temperature must not exceed 85°C.

All EFFI CUPRUM models can be also installed as separate placed panels. The cooling effect is increased by 30% in case of such installation type.



Only high quality materials are used at the production of EFFI CUPRUM active ceilings. Copper pipes with a diameter of 12 mm. Special aluminum profiles that transfer heat or cold from the pipes to the metal surface. Steel sheet 0.8 mm thick with powder coating.

Areas of use



Office spaces



Schools



Commercial and public premises, infrastructure facilities, airports, railway stations, car showrooms



Medical institutions

More information:
www.effipanel.com