

infraclima keeps your home
comfortable and healthy.



 **infraclima**
www.infraclima.sk

INFRACLIMA SOLUTION

It is based on a full-surface installation of capillary mats in the **floor, walls and ceiling** on a 3cm layer of underlay thermal insulation embedded in the layer of gypsum plaster or floor screed.

The water at a temperature about **30% lower than the temperature of the human body circulates continuously in closed circuit all year round**, thus provides an ideal constant internal thermal comfort.

Depending on current needs and user settings, heat or cold is supplied to the circuit or the heat inside the building is redistributed between individual rooms.

22°

+/-2°C is the **temperature of water** flowing in the circuit of capillary mats, sufficient for comfortable interior temperature in winter, ensures a pleasant radiant cold in summer

50%

of heat demand for heating **can be covered by the thermal solar system** (in climatic conditions of Central Europe).

6+

is the **COP** (coefficient of performance) of the heat pumps ground/water (or water/water) type in thermal condition of capillary mats (G10/W25°C)

90%

Possible energy savings for heating/ cooling of the buildings compared to conventional systems
The most effective way to achieve all year round thermal comfort.

1cm

Is the standard thickness of the gypsum plaster layer with integrated capillary mat.

1

Simple 1 thermal sensor provides all year round thermal comfort. High precision control unit keep the user set temperature
Without complicated electronics

PPR

Is the basic material of capillary mats and all system elements. **Non corrosive, recyclable, quick and simple installation, long lifetime** comparable to building construction lifetime

OVERVIEW | BENEFITS



year round thermal comfort and healthy living

uniform temperature in all house
free of draft and dust whirl
without molds and overgrown mites

TOP energy savings

90% + reduction of operational costs
more efficient use of the heat pumps
more efficient use of solar thermal sys.
waste heat recovery (from 23°C)



function and design

PURE and clean house interior
automatic adaptation to current weather
self-regulation ability

universal use

suitable for new buildings, renovations
residential and office buildings,
showrooms, hospitals, schools,
greenhouses, multifunctional buildings



proven solution

tradition of PPR production since 1990
capillary mats production since 2002

guarantee

extended warranty 10 years
lifetime 100+ years



environment friendly technology

100% recyclable material
suitable for "island" systems
passive house alternative

REFERENCES



comfortable and healthy COOLING

All1One

1 system for all year round thermal comfort maintenance, 100% replacement of conventional heating and cooling



0,15 m/s

radiant cooling free of cold draft.

INFRACLIMA provides radiant cooling without large airflow. End of air conditioning diseases.

from **30W**

cooling input power.

using a passive (without compressor) cold source (ground bores, wells, covered ground collectors). Cooling operational costs in family house up to 80EUR per year.

up to **20°C**

is the temperature of water which can be used as a cold source in the system INFRACLIMA. Raise of effectivity of common chillers (higher EER) Cooling operational costs savings



free of cold draft

end of summer angina, headache and back pain
end of joint pain and eye drying

STOP to expensive maintenance
and air conditioning cleaning

The company is mainly engaged in the development and production of INFRACLIMA system - a revolutionary solution that provides year-round thermal comfort in the interior of buildings and allows to eliminate conventional heating and air conditioning. Company founder Michal Rybář has been developing innovative technologies in the field of plastic piping systems since 1990. Gradually he built extensive facilities in the form of production facilities, tool shop, equipment for earthwork and construction work or drilling rigs. This enables the company not only to continue its own development, but also to fully meet the needs of our customers and offer them additional services.

Within the scope of additional services we offer:

- wholesale and retail sale of a wide range of technical equipment of buildings
- drilling of wells and geothermal bores for heat pumps
- energy savings calculations and system design support



If you are interested in anything, do not hesitate to contact us!
We will be pleased to answer your questions.

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