Floor Cooling/ Heating System

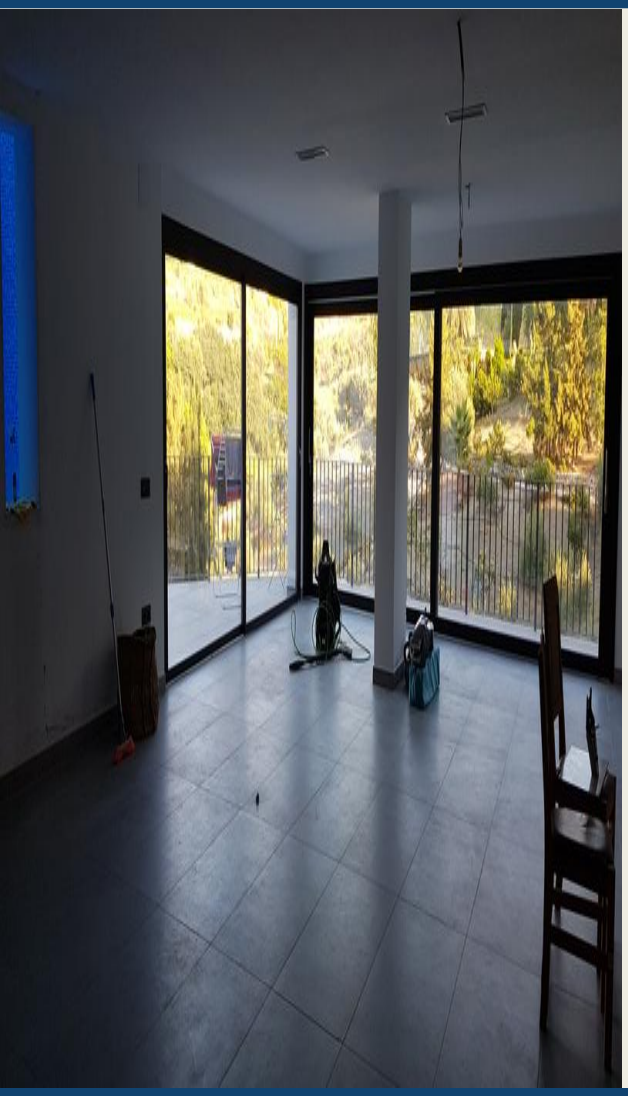
INNOVATIVE ENERGY SOLUTION

High temperature cooling elements incorporated within the building structure, to activate the building own thermal mass to provide uniform temperature throughout the building.

Eng .Mohsina Kazmi
+971 50 3492169
info@wmzs.org

WMZS

LIST OF CONTENT



ABOUT WMZS SYSTEMS

WMZS is an innovative company that combines science, innovative technical solutions, and thermal energy storage to meet the demand for low energy buildings, communities, and entire cities worldwide.

Let's meet and discuss how we can reduce energy usage and cost, CO2 emissions and water consumption in your existing buildings or next construction.

40 % Energy Reduction

The concept cools and heats any building, community, and city with less energy through an ecosystem of products connected by our distribution system.

It is a durable system that is easy to implement, fully compatible with ISO standards, green buildings, smart city standards and we have great results in both hot as well as cold climates.

Radiant Floor Cooling System

An underfloor cooling system works by the transfer of energy by radiant heat exchange. The floor is cooled to a temperature cooler than the surrounding air; the floor then absorbs radiant energy proportional to the temperature difference between the surface and the room and therefore reduces the radiant air temperature more than the temperature of the floor.

Floor Cable (Electric) Heating System

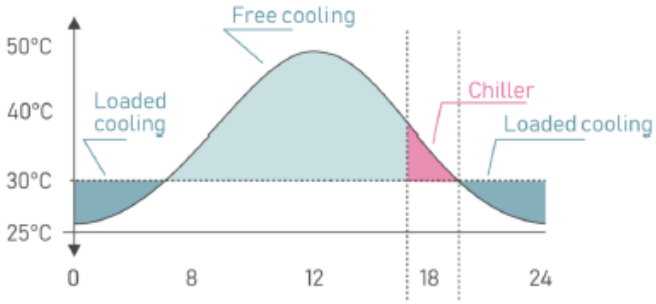
Electric Floor Heating Systems are a highly economical way to heat any toilet, washroom, bathroom , kitchen, etc. Electric underfloor heating mats can be installed underneath any floor covering of your choice and become an integrated part of your existing floor design, their low profile ensures a hassle-free installation and minimal disruption to your home. Installing this heating method is as simple as laying the mat and connecting it to the electric via fuse spur.

Outdoor Floor Cooling System

An underfloor cooling system works by the transfer of energy by radiant heat exchange. The floor is cooled to a temperature cooler than the surrounding air; the floor then absorbs radiant energy proportional to the temperature difference between the surface and the room and therefore reduces the radiant air temperature more than the temperature of the floor.

TECHNOLOGY DESCRIPTION

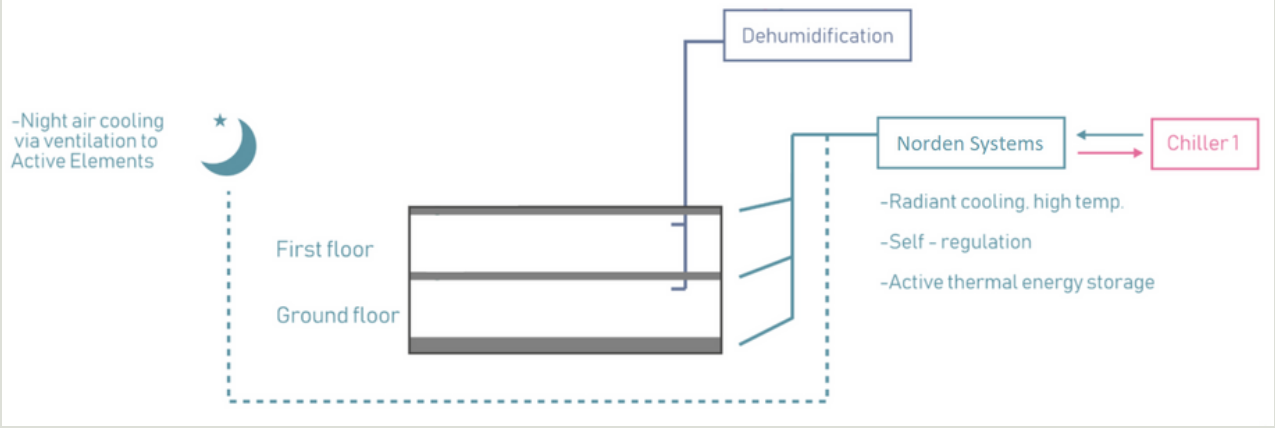
We believe a truly engineered solution will have significant impact from capital cost savings to better comfort to maintenance cost reductions.



Radiant hydronic high temperature cooling: The possibilities by using the active thermal energy storage by the building itself, and connection to a high efficient cooling machine during peaks will enhance the comfort and energy efficiency.

40 % Energy Reduction

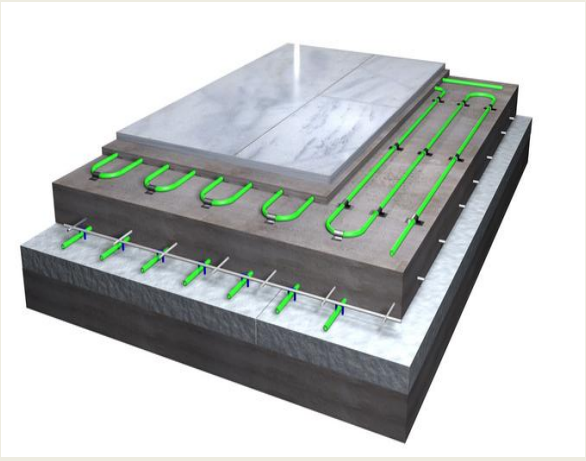
The system truly take advantage of the diurnal high cooling temperature in the building and the heavy concrete construction. This would reduce the time when outdoor cooling unit would be in operation.



Thermal comfort: Interior surface temperatures play a significant role in determining overall thermal comfort. Therefore, it's important to achieve even and steady temperatures in the whole building. Radiant thermal energy exchange between active and non-active surfaces influences all interior surfaces temperatures.

BENEFITS OF SYSTEM

ENERGY EFFICIENCY



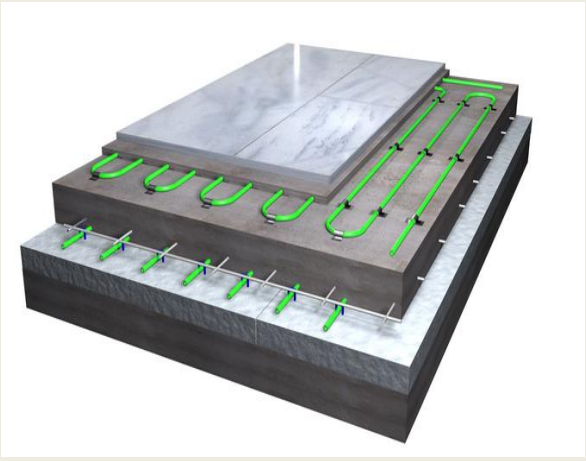
INNOVATED RADIANT COOLING AND DEHUMUDIFIERS

Through high temperature cooling embedded in the structure and internal temperatures regulated passively, we can drastically reduce energy consumption, reduce the size of air handling units and ducts and make systems simple. This free up space, reduce costs both initial and significantly over life cycle.

- Eliminates Noise from fans
- Cost Effective
- Life -time Warranty
- Cold drafts
- best in class thermal comfort
- Health benefits

Reference:
Costa del Sol, Marbella, Spain

APPLICATION



Floor Heating (Cable) System

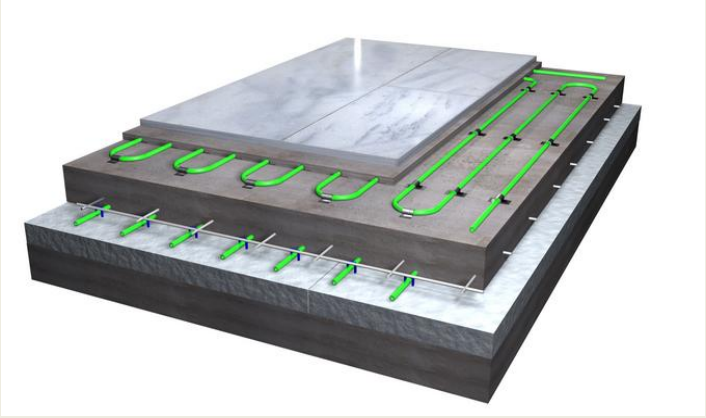
- BATHROOM
- TOILET
- WASHROOM
- KITCHEN

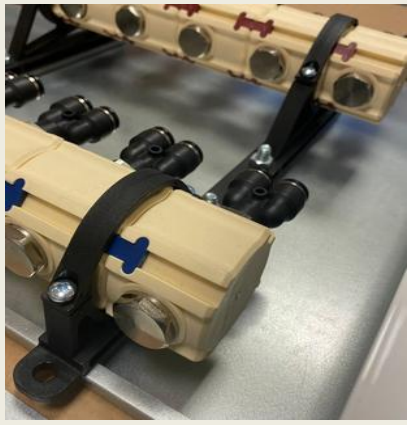
Radiant Floor Cooling System

- VIILA
- COMMERCIAL BUILDING
- SCHOOL/HOSPITAL
- SHOWROOM/ FACTORIES

Reference:
Costa del Sol, Marbella, Spain

REFERENCE PROJECTS





Reference:
India Pavilion , World Expo 2020

Reference:
Luxury Villa, Near Al Bahr Tower,
Abudhabi