

CASE STUDY

Hospital Humanitas, Italy, Milan

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*In the summer season the biggest consumer of energy in hospitals is air conditioning and cooling equipment! It is responsible for even up to 50% of the total energy consumption.*



“Smart Cooling™” adiabatic pre-cooling system:

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Increases efficiency of the cooling equipment, provides additional cooling power by up to 23%
- ✓

Reduces energy consumption of air conditioning and cooling equipment by 21%
- ✓

Reduces the load to the compressors of air conditioning and cooling equipment.
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Prolongs the life expectancy of compressors.

SOLUTION:

In summer 2014 decision was made to install “Smart Cooling™” adiabatic system, manufactured by Swiss Integrated energy technologies AG, on the cooling equipment Climaveneta SRAQ/SL – 2404, Climaveneta ERACS- Q/LT-SL 2722, Climaveneta FOCS-CA-R 2722/SL. Total cooling capacity 1957 kw.



RESULTS

Energy monitoring and test results showed that after installing the adiabatic system “Smart Cooling™” on the cooling equipment: Chiller Climaveneta FOCS

- the efficiency of the cooling equipment and the cooling power increased by 23%.
- the energy consumption of the cooling equipment was reduced by 21%
- the cooling equipment operated smoothly and ensured the required climate indoors.



WHAT THE CUSTOMERS SAY:

“Smart Cooling™” won the tender due to the 3 main criteria being considered:

- a) comparing the technical parameters, the equipment, “Smart Cooling™” adiabatic system provided the highest efficiency and results;
- the experience and references of the company in other projects;
- return period.

Of course, the professionalism of the company that caught our attention and their proposals played an important role as well. I would not hesitate to recommend installing “Smart Cooling™” adiabatic system in other hospitals as well, because “Smart Cooling™” equipment is a really powerful tool. Owing the operational results of the “Smart Cooling™” adiabatic system, Humanitas hospital claims to receive the White certificate, which will aid the hospital in gaining additional funds. We increased efficiency, reduced capital investments and operational expenses – at the same time ensuring the optimum level of cooling system of the building. Return period of the adiabatic system - 14 operation months.

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NO CALCIUM CARBONATE RISK



100% CONDENSER PROTECTION



NO LEGIONELLA RISK IN WATER MIST

Certified UV systems removes legionella bacteria

- Modular system
- Suitable for all type of dry coolers and chillers
- Easy and fast installation
- Certified system and approved by major cooling equipment manufactures
- Minimal maintenance



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