

# ColdAIR Health<sup>®</sup>

Micrometrics Technology Power

THE INNOVATIVE EVAPORATIVE COOLING SYSTEM  
FOR INDUSTRIAL, COMMERCIAL, SPORTS AND AGRICULTURAL BUILDINGS  
THAT LOWERS COOLING COSTS AND IMPROVES THE AIR QUALITY



## COST AND ENERGY SAVINGS

- ✓ Up to 90% reduction of energy consumption and up to 75% of installation costs compared to a traditional air conditioning system.
- ✓ Reduction of running and maintenance costs.
- ✓ Reduction of energy required for cooling.
- ✓ Lower risk of deterioration of goods thanks to the reduction of molds, fungi and bacteria.

## ADVANTAGES FOR THE ENVIRONMENT

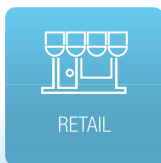
- ✓ Reduction of pollutants and bad smells in the air.
- ✓ Reduction of CO2 emissions.
- ✓ Absence of chlorofluorocarbons (CFCs) and refrigerant gases.
- ✓ Continuous oxygenation of the environment

## ADVANTAGES FOR THE WORK ENVIRONMENT

- ✓ Improvement of the breathing air quality in the workplace.
- ✓ Exceptional comfort during the hotter periods and in the hottest environments (e.g. foundries) thanks to the continuous cooled air change.
- ✓ Increased staff productivity.
- ✓ Decreased risk of injuries at work.



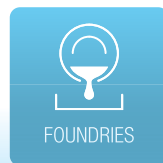
MANUFACTURING



RETAIL



SPORT FACILITY



FOUNDRIES

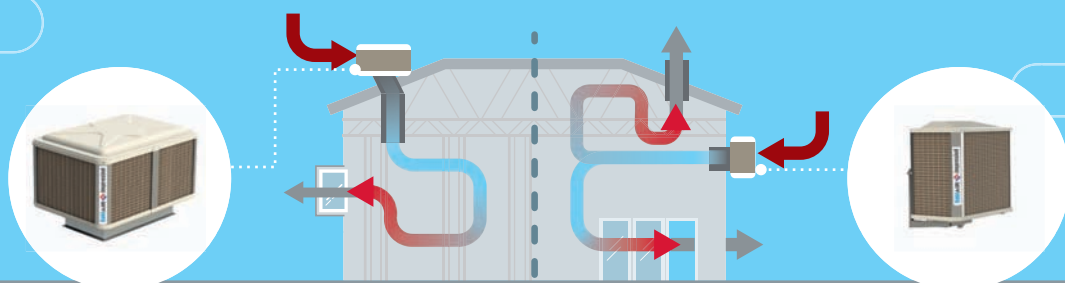


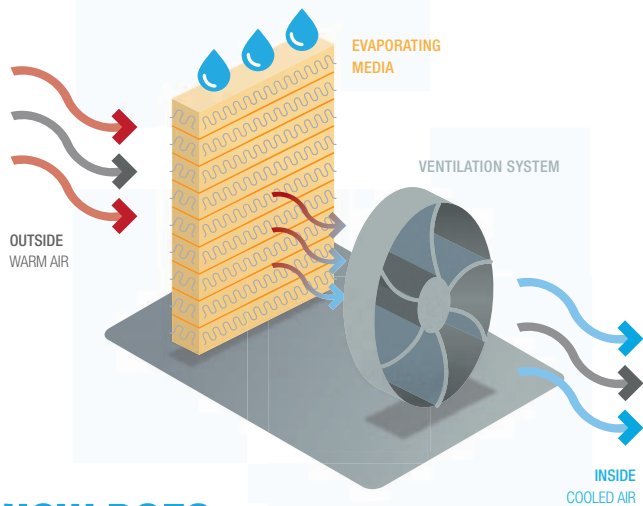
GREENHOUSE



ANIMAL HUSBANDRY

INDICATED FOR MEDIUM / LARGE SIZE BUILDINGS, IT IS A SYSTEM THAT WORKS DYNAMICALLY: INTRODUCES LARGE QUANTITIES OF COOLED AND PURIFIED EXTERNAL AIR IN THE BUILDING, EXPELLING THE HOT EXHAUSTED AIR THROUGH DOORS, WINDOWS AND OTHER MECHANICAL EXTRACTION EQUIPMENT.



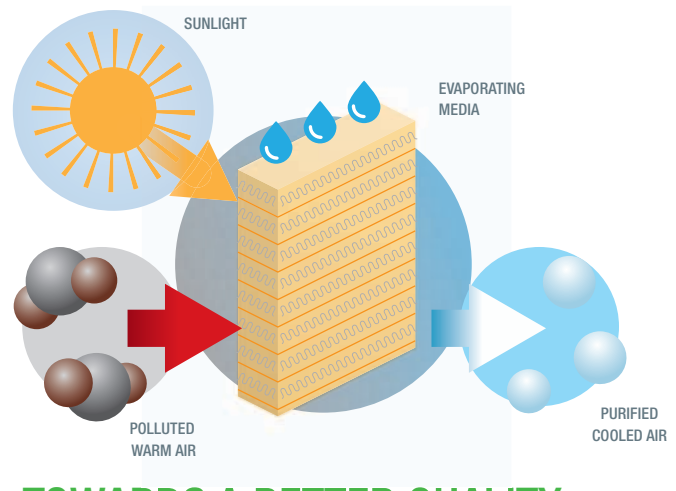


## HOW DOES ADIABATIC EVAPORATIVE COOLING WORK

The warm air taken from outside the building passes through an evaporating media, a special device through which the water passes.

Warm air that comes in contact with water causes it to evaporate by giving off its sensible heat. The more water evaporates the more sensible heat is consumed resulting in larger air temperature drop.

Following this principle the flow of air is cooled and is inputted into the building by a ventilation system. The Impresind Cold Air coolers have a greater air cooling capacity thanks to a higher consumption of water considering the same air flow and external conditions of external air, they obtain a saturation efficiency of almost 90%.



## TOWARDS A BETTER QUALITY OF BUILDING ENVIRONMENTS: COLD AIR HEALTH SERIES

After having cooled the external warm air, COLD AIR Health series before inputting it into the building, purifies it thanks to a patented system designed by Impresind. The purification takes place inside the evaporating media through the photocatalysis of titanium dioxide which, exposed to sunlight, produces a high oxidizing effect on organic and inorganic substances.

Therefore, it reduces the harmful presence in the air of nitrogen dioxide, sulfur dioxide, carbon monoxide, benzene, ammonia, formaldehyde, atmospheric particles PM10 and organic molecules (reduction of bacterial load).

Test results performed at the University of Turin by the Department of Chemistry, indicate for example a reduction of NO of 60% and NOx of 37%.

### CHOOSE IMPRESIND, CHOOSE SUSTAINABILITY

- ✓ The only manufacturer in Italy of evaporative adiabatic coolers with patents and certified quality.
- ✓ Greater air cooling.
- ✓ Continuous innovation, cooperation with Universities and Research Centers.
- ✓ All products are 100% designed and manufactured in Italy.
- ✓ Pre-sales and after-sales service qualified personnel.
- ✓ Spare parts always available.
- ✓ Products always in compliance with current regulations and directives.



### IMPRESIND

Offers a wide range of solutions for industrial Heating, Ventilation and Cooling. Our development of technologies has always the aim to research innovative solutions for energy saving keeping in mind environment awareness. Our products are completely designed and manufactured in Italy, with the certified quality system

**UNI EN ISO 9001: 2008**



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