impresind

COMFORT SALUTE AMBIENTE

WIND OF INNOVATION



ECO

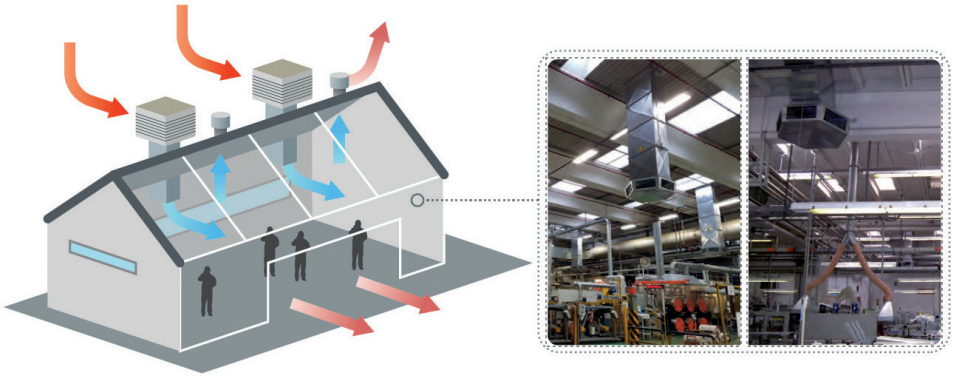
NO HFC GAS

ColdAIR®

CERTIFIED ISO 9001:2015 COMPANY

INDUSTRIA 4.0

THE ADIABATIC EVAPORATIVE COOLING SYSTEM THAT REDUCES CLIMATE CONTROL COSTS WHILE **ENHANCING INDOOR AIR QUALITY** IN LARGE SPACES



HOW COLDAIR WORKS

ColdAIR works in a dynamic regime, introducing new, oxygenated air into the environment and expelling exhausted air through doors, windows and other forced extraction devices, ensuring continuous and efficient air exchange.
The air introduced is cooled without the use of compressors and refrigerant gases; instead, it simply relies on water evaporation process that reduces sensible heat.

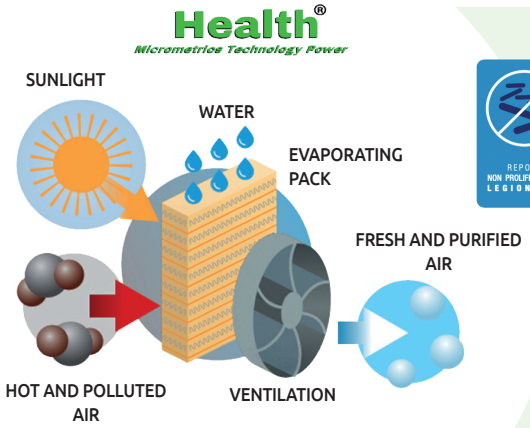






ADVANTAGES OF COLDAIR

- Large fresh air renewals. Automatic ventilation and free-cooling
- Cooling, purification and better air quality inside the building.
- Reduction of pollutants and improvement of hygiene and environmental comfort.
- Cost-effective installation, operation and maintenance
- Partial or differentiated cooling by.
- Tax benefits arising from meeting energy efficiency and sustainability parameters.



REPORT NON PROLIFERAZIONE LEGIONELLA

THE HEALTH® SYSTEM BY IMPRESIND

The sustainable technology to purify the air of pollutants and harmful substances.

The HEALTH® system, patented by Impresind, utilizes the photocatalysis with titanium dioxide to purify hot outside air before releasing it into the space. This reduces the presence of harmful inorganic substances in organic molecules, thereby diminishing their bacterial load.

Test results conducted by the Departments of Chemistry at the Universities of Turin and Milan in Italy indicate a notable reduction in NO, NOx, PM10, and PM5."

COLDAIR EVAPORATIVE COOLER

HEALTH · GREEN · CE ERP COMPLIANCE · PATENTED · MADE IN ITALY · HIGH PERFORMANCE

The most efficient, economical, and ecological solution for cooling large spaces, which also ensures continuous air exchange.

ColdAIR evaporative coolers are efficient, economical, healthy and allow up to 75% savings on cooling costs. Thanks to ColdAIR, large volumes of air can be cooled with zero environmental impact and with minimal energy consumption. Entirely **designed and assembled in Italy**, it is certified with the **ISO 9001:2015 Quality System**.
The ease of maintenance and use makes ColdAIR very competitive also in terms of installation costs.

CHARACTERISTICS AND FIELDS OF APPLICATION

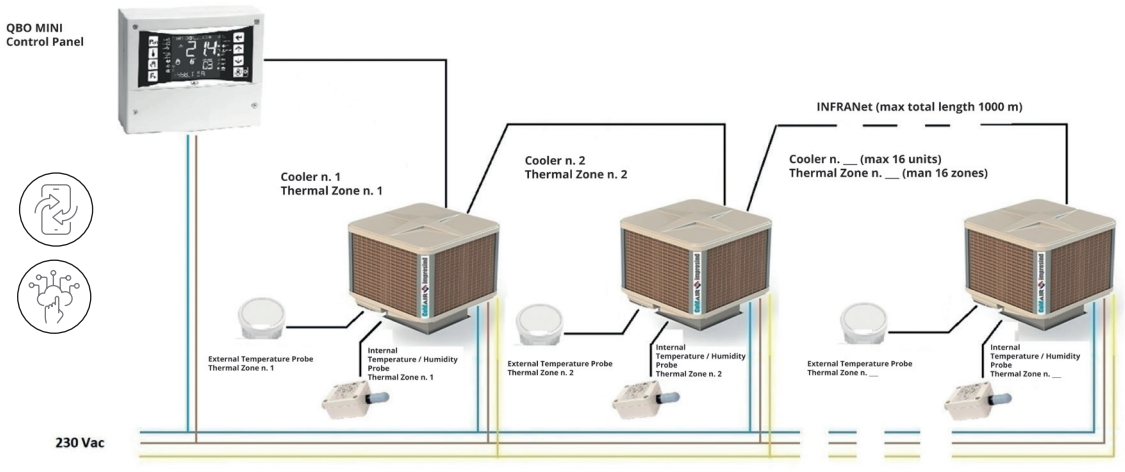
- "HUMIDITY PLUS" FUNCTION TO MODULATE THE OPERATION OF THE WATER RECIRCULATION PUMP
- EFFICIENCY CONTROL OF EVAPORATING PANELS
- PRE-WETTING AND POST-COOLING DRYING OF THE EVAPORATING PANELS
- REMOTE CONTROL VIA CLOUD OR APP
- PURIFICATION OF TREATED AIR



- WATER-SAVE FUNCTION TO OPTIMIZE WATER CONSUMPTION
- FREE-COOLING MODE
- SAFETY THERMAL CIRCUIT BREAKER INSTALLED ONBOARD THE COOLER
- ELECTRONIC BOARD WITH INTEGRATED NETWORK MODULE
- INTERNAL AND EXTERNAL TEMPERATURE PROBES

INDUSTRIAL · LIVESTOCK · AGRICULTURAL · COMMERCIAL · SPORT · FOODSERVICE

ColdAir coolers can be integrated into a network and centrally controlled from a single master control panel as well as remotely, via the dedicated app or Cloud mode.









TECHNICAL CHARACTERISTICS

Model	Air Circulation m3/h*	Cooling Capacity KW	Airflow m3/h	Total Power W	El. Supply V/Hz	Dimensions LxWxH mm	Weight E / F Kg
FPA 103	14.000	24	10.000	900	230/50	1300x670x1300	60/75
FPA 123	18.200	32	13.000	1.200	230/50	1300x670x1300	63/78
TC 123**	14.000	24	10.000	1.600	400/50	1150x1150x1050	110/130
TA 123	18.200	32	13.000	1.200	230/50	1150x1150x1050	67/88
TA 223	28.000	49	20.000	1.800	230/50	1610x1150x1050	120/146
TA 223-2SD	28.000	49	20.000	1.800	230/50	1610x1150x1350	150/180
TC 223**	28.000	49	20.000	3.200	400/50	1610x1150x1050	200/220
TA 323	37.800	66	27.000	2.200	230/50	1610x1150x1350	135/163

* Extra UE design parameters
** Centrifugal fan Unit

RESULTING AIR TEMPERATURE SUPPLIED BY THE COOLER

SATURATION EFFICIENCY 88%

(atmospheric pressure 1013 mbar - 0 m above sea level)

	External Relative Humidity				
External Air Temperature	RH 30%	RH 40%	RH 50%	RH 60%	RH 70%
20°C	12	13,5	14,5	16	17
25°C	16	17	18,5	20	21
30°C	19	21	23	24,5	26
35°C	22.5	25	27,5	29,5	31
40°C	26	29	31,5	33,5	36,5

OTHER SOLUTIONS BY IMPRESIND



TUB - ONE • GAS-FIRED RADIANT STRIP



ELITURBO • AIR DESTRATIFICATION AND MIXER



RAY - RED • GAS-FIRED RADIANT TUBE HEATERS

impresind
COMFORT HEALTH ENVIRONMENT

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