



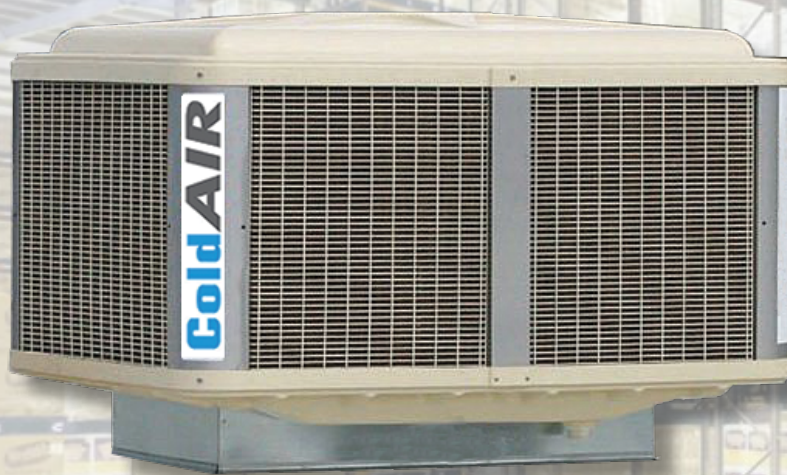
NORDAIRNICHE

ColdAIR

Evaporative Cooling Systems

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HEATING AND VENTILATION SOLUTIONS





ColdAIR

Evaporative Cooling Systems

ColdAIR evaporative cooling systems is the low cost environmentally friendly alternative to costly air conditioning.

ColdAIR evaporative cooling systems are fast becoming the standard way to cool industrial and commercial premises, by drawing air through continually wetted pads that surround the unit. The evaporation of the moisture into the air reduces its temperature,

whilst the process also filters it, removing airborne contaminants.

Evaporative cooling systems are designed with energy efficiency in mind, typically consuming only 20% of the energy used by traditional air conditioning systems and with the ability to install without any structural alterations to your existing building.

Evaporative Cooling Systems



Wall / window model WA



4 way diffuser box



Roof top model RA

Features & Benefits

- > Consumes 80% less energy than conventional air conditioning systems
- > Door and windows can be left open with no loss efficiency
- > 100% fresh filtered air
- > Low installation, operating and maintenance costs
- > Low energy consumption
- > No refrigerant chemicals, no environmental damages
- > Improvement of the working conditions increase productivity
- > Spot cooling capability
- > Wall / window / roof mounting
- > Possibility to only ventilate in the cooler seasons

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The Problem

To improve the air quality of a working area on a hot summer day, it is necessary to have a large number of air changes, preferably with filtered cooled air.

In the case of large factories and warehouses, installation and running costs often prohibit the option of air conditioning systems.

Moreover, the frequent opening of doors due to routine activity have a detrimental effect on the efficiency of an air conditioning system.

The Solution

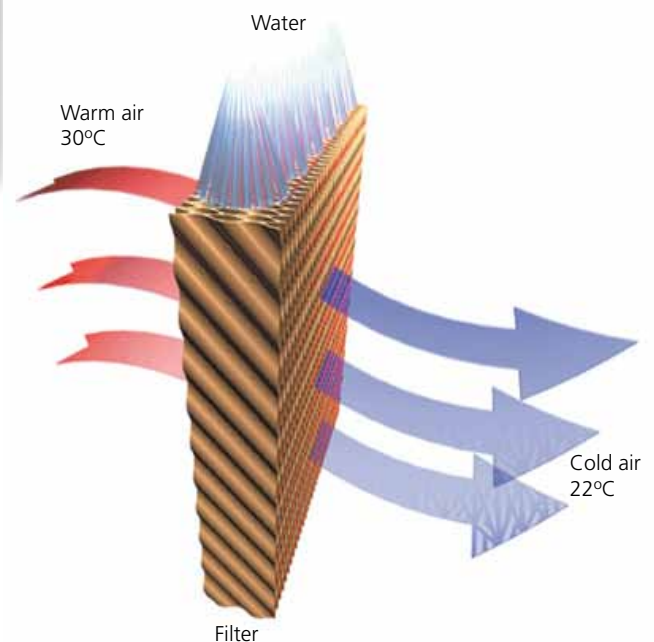
The solution is to install a ColdAIR evaporative cooling system that cools the air using a natural principle and is on average 75% cheaper to install than air conditioning.

As the air passes through special wet filters, it loses part of its heat due to the evaporation of the water and thus the air temperature is reduced.

The absence of refrigerants, associated with an air conditioning plant, produces a system with minimal energy requirements and many air changes for a very low cost.

Prevention of Legionella

- > System design to maximise the evaporation of the water into the air without the water atomising
- > Low air velocity over the evaporative filters - this avoids formation of water droplets
- > Automatic control managing the water supply and discharge
- > Automatic cleaning cycle, replacing the complete reservoir of water
- > The water in the cooler operates at temperatures below the level for the formation of bacteria
- > The cooler automatically discharges the complete reservoir if power fails



Outlet Air Temperatures With Different Inlet Conditions							
Relative Humidity	20%	30%	40%	50%	60%	70%	80%
°C Ext	°C Int.						
20°C	12.0°C	13.0°C	14.5°C	15.5°C	16.5°C	17.5°C	18.5°C
25°C	16.0°C	17.0°C	18.5°C	20.0°C	21.0°C	22.0°C	23.0°C
30°C	19.5°C	21.0°C	22.5°C	24.0°C	25.0°C	26.5°C	28.0°C
35°C	23.0°C	25.0°C	26.5°C	28.5°C	30.0°C	31.5°C	32.5°C

Technical Data							
Model		WA 100	WA 150	RC 100	RA 150	RA 200	RC 200
Flow rate	Max	10000	13000	10000	13000	20000	2500
	Med	7500	9700	5000	9700	15000	
	Min	5000	6500		6500	10000	12500
Equivalent refrigerating capacity	kW	15	19	15	19	30	30
Voltage supply	V	230V - 50Hz	230V - 50Hz	400V - 50Hz	230V - 50Hz	230V - 50Hz	400V - 50Hz
Current	A	3.7	4.8	3.5	4.8	7	7
Total electrical power	kW	0.9	1.2	1.6	1.2	1.8	3.2
Water consumption (average) ⁽¹⁾	l/h	34	39	34	43	64	64
Input water connection	Ø "	3/8	3/8	3/8	3/8	3/8	3/8
Drain water connection	Ø mm	63	63	63	63	63	63
Air duct dimensions L x W	mm	600 x 600	600 x 600	600 x 600	600 x 600	1150 x 600	850 x 470
Duct maximum length	m	5+ 1 bend	5+ 1 bend	See manual	5+ 1 bend	5+ 1 bend	See manual
Cellulose pads:							
Thickness	mm	100	100	100	100	100	100
Area	m ²	2	2	2.7	2.7	3.4	3.4
Average saturation efficiency		88%	88%	88%	88%	88%	88%
Dimensions: L x W x H	mm	1300 x 670 x 1300	1300 x 670 x 1300	1150 x 1150 x 1050	1150 x 1150 x 1050	1650 x 1150 x 1050	1650 x 1150 x 1050
Weight (empty - full)	kg	60 - 75	63 - 78	110 - 130	67 - 88	120 - 146	160 - 186
Noise:		Min / Max speed	Min / Max speed	Min / Max speed	Min / Max speed	Min / Max speed	Min / Max speed
Outdoor ⁽²⁾	dBA	49 / 65	50 / 66	55 / 61	50 / 66	53 / 68	58 / 65
Indoor	dBA	49 / 66	50 / 67	56 / 62	50 / 67	53 / 70	60 / 66

(1) Test conditions: E. Temp. = 33°C - R.Hum 60%

(2) Open field test, 4m distance

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