Evaporative cooling

art eco

Sustainable climate control


ecool


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Evaporative Cooling

Art-Eco: the specialists in the design, installation and service of sustainable climate control systems

Art-Eco is a company specialising in the design, installation and servicing of sustainable climate control systems using evaporative cooling technologies. Founded by a team of professionals, it was the first company in Italy to introduce adiabatic cooling systems becoming the benchmark for the industry. With a keen interest in sustainability and respect for the environment, Art-Eco changes the way professional, industrial and commercial environments are designed, promoting the importance of inclusiveness and a healthy working environment while reducing emissions and preserving resources. We offer sustainable products, free of CO2 emissions, designed and manufactured in a responsible manner, which respect the health of people and the planet.

The innovative technologies offered by Art-Eco exploit natural elements, such as air, water and sunlight, to improve comfort in industrial, professional and commercial working environments.

Eco-custom

Each solution is customised, designing and producing only what is needed according to requirements and without waste.
This is because an oversized plant would require more raw materials and more energy to make it and to keep it running. Art-Eco is a reliable partner that supports customers during the steps that require the most attention, from analysis and design to installation and maintenance. It is a one-stop shop for comprehensive service aimed at achieving a high standard of processes, quality and results.

Smart control

Innovation, for Art-Eco, means investing in technologies that can improve productivity and value people's time. ECOOL-i is the brainchild of this approach being another important step – this time digital – towards corporate sustainability!
A single app, developed by Art-Eco, for total control of your business, will help you increase productivity, exploit data and optimise the efficiency of business comfort. It will allow you to manage the entire cooling system more remotely, offering the possibility to interact at any time and from any place.

By using PCs and notebooks from fixed locations and/or portable devices, such as smartphones and tablets, you can have full control and thus optimise business and production processes.
With management protocols, Art-Eco units can be integrated with third-party equipment and control cooling, lighting, alarms and much more with a single interface.

Art-Eco has adopted the principles of sustainable enterprise disseminating awareness of the importance of everyone's actions for the environment and future generations.

Raising awareness, continual training, investments in state-of-the-art techniques and technologies and a dedicated Research and Development department mean that Art-Eco can design efficient solutions for mitigating small and large environments, abating costs and reducing CO_2 compared to conventional climate control systems.

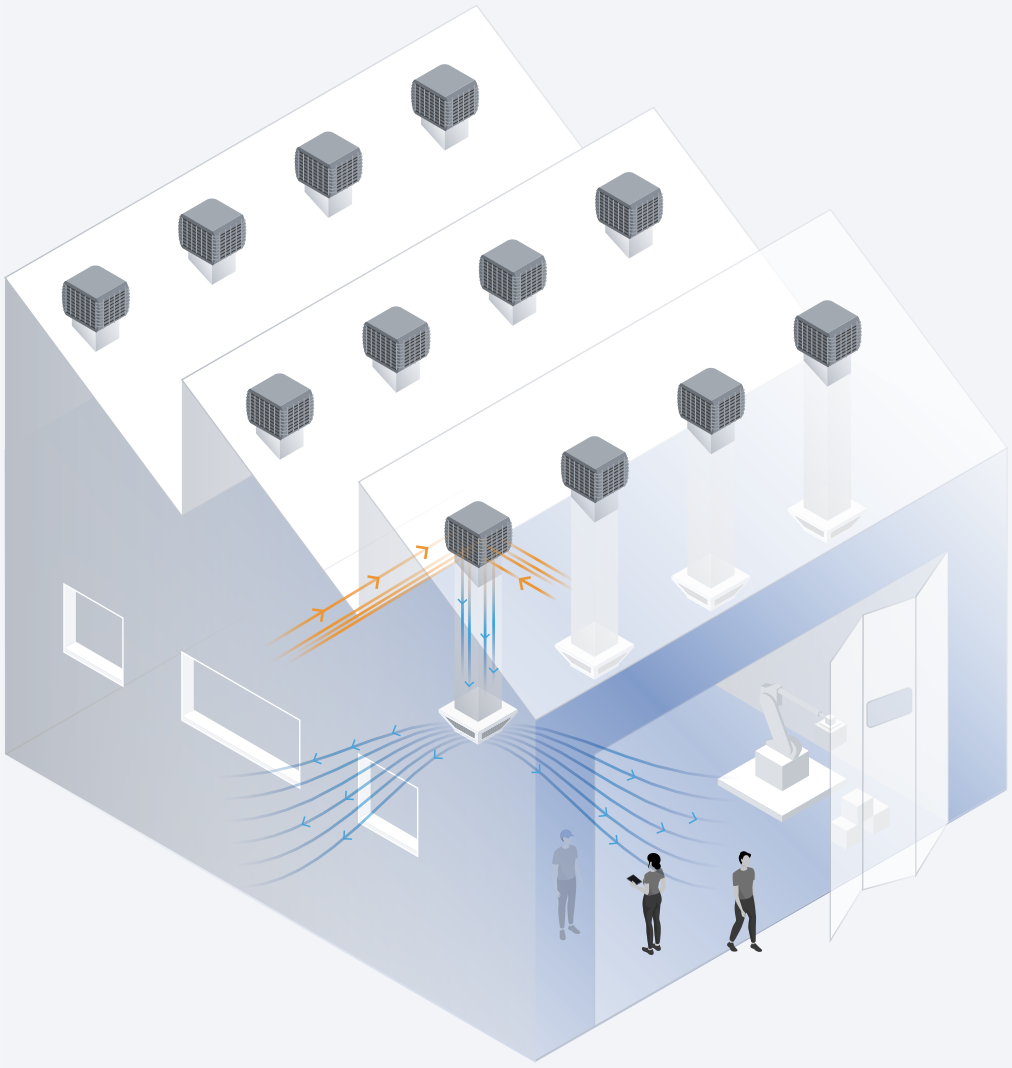
Today more than ever, the plans and strategies of a modern and innovative company must include respect for the environment and people.

Friends of nature. Haters of waste.

Evaporative cooling: ecological and natural

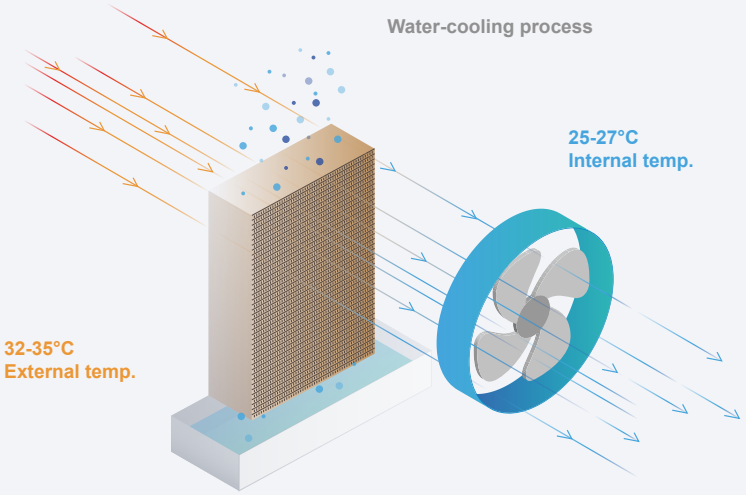
How does adiabatic cooling work?

With adiabatic cooling, warm outside air comes into contact with the water-sprayed honeycomb panels and surrenders much of its heat through the natural effect of evaporation. The air, filtered and cooled in this way ensures continuous cooling. Furthermore, with a constant exchange between outdoor and indoor areas, spaces will be healthier and more welcoming.



Air and water only

The oldest form of evaporation cooling dates back to ancient Persia. Wind towers were natural air conditioners, using the combined action of convection and evaporation to cool buildings.
A natural solution to the problem of air conditioning in hot climates is to mitigate summer heat and make rooms more liveable and comfortable. Wind towers are still the most sophisticated passive cooling systems in the world today.



The advantages of evaporative coolers

They generate multiple air changes, reduce installation and running costs, increase well-being and sustainability, and improve productivity.

Innovative
They work with open doors and windows

Eco-friendly
A 100% natural system based on air and water

Advantageous
-75% installation costs and -90% running costs

Effective
Little energy is needed to cool down 5-10°C

Healthy
They eliminate dust, viruses, germs and odours

Simple and safe
No need for pumps or refrigerant gas

The app for remote controlling your cooling system

Scarica su App Store

DISPONIBILE SU Google Play

ECOOL-i

Management via a dedicated server

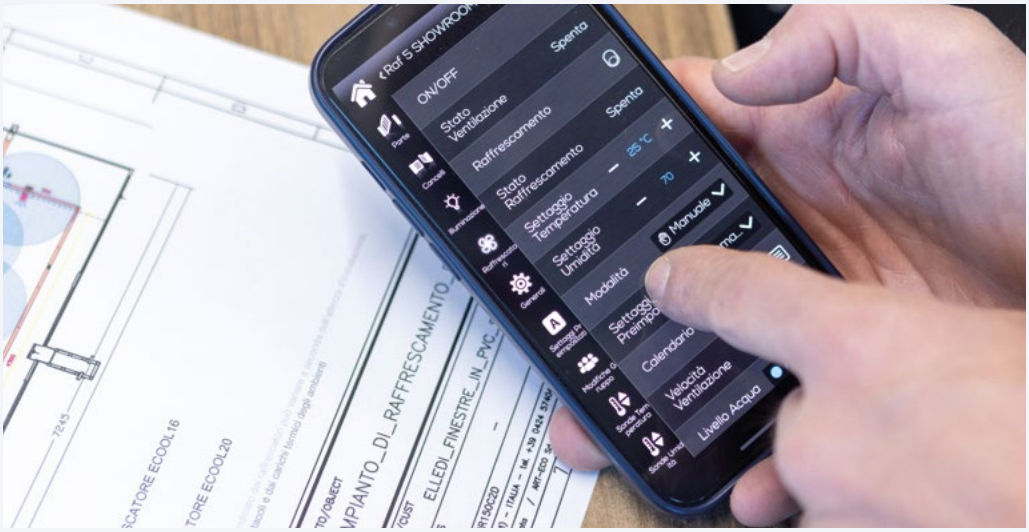
Specially developed to facilitate the management and control of cooling systems, the ECOOL-i app allows countless configurations and customisations, so that the cooling system to be controlled directly from a PC, smartphone, tablet or any other networked device.
The management mode and dedicated graphics offer a high number of programming and management features for each area offering a precise and punctual view of the cooled rooms.

Ease of integration

With the ECOOL-i software, data can be collected and managed in real-time, increasing efficiency and productivity.
ECOOL-i allows the integration of many other business devices such as heating appliances, sheds, weather stations, air extractors, AHUs, windows, lighting, etc.

Remote assistance service

With the remote connection to the administration panel, it is possible to obtain information on the server, schedule and maintain the system, and have automatic and real-time updates of all parameters on your device.
Remote control and management with remote maintenance operations, allowing precise diagnosis of the status of all components of the machine and the system as a whole.



Eliminates bacteria and sanitises the air naturally

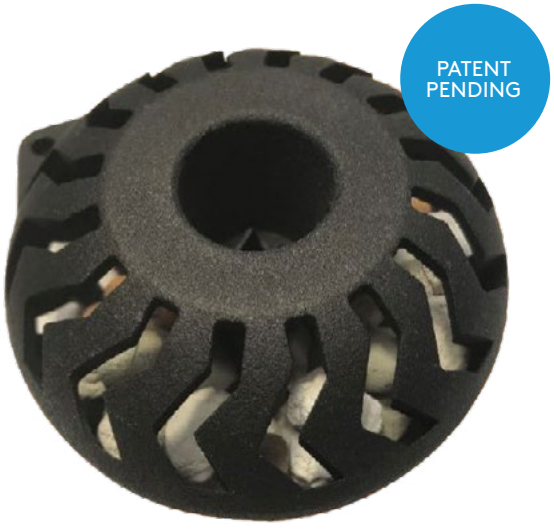
ECOOL-IGE is the Art-Eco sanitising ball that inhibits the formation of algae and fungi inside evaporative coolers.

How is it used?

Place one or more ECOOL-IGE balls in the cooler tank to protect for the entire season.

How does it work?

The water is purified by contact with the nano- and micro-minerals inside the PVC ball, which negatively charge the water molecules by emitting silver ions and tourmaline. Water treated in this way removes electrons from bacteria and single-cell organisms, destroying fungi and bacteria.



Compatible with all our coolers

Bacteriologically stable clean water due to the gradual release of the active ingredient

- It eliminates the aggregation of calcium and magnesium salts, reducing the formation of limescale deposits
- It reduces the density of water, making it more fluid
- Mineral ionisation interrupts biofilm growth and consequently the growth of bacteria and microorganisms in the collection water
- It makes the use of other chemicals or disinfectants unnecessary

ECOOL
Fixed industrial coolers

The ideal solution for cooling and air exchange in industrial environments.

These are coolers with advanced technology, designed for fixed installations. Suitable for mounting on the roof, the wall or the floor, they are perfect for any type of industrial environment.

Advantageous and economical

The low installation and running costs compared to traditional air-conditioning systems make ECOOL coolers advantageous and economical.

Next-generation motors

Inverter or DC Brushless motors ensure high performance, long life, low energy impact and low noise.

Remote management via ECOOL-i app

The advanced management system allows remote control of the entire system and interaction at any time and place with multiple devices.

Product range

Ideal for:

INDUSTRIAL SHEDS
WAREHOUSES
LARGE AREAS
TENSILE STRUCTURES
PRODUCTION PLANTS
PRODUCTION FACILITIES
FOUNDRIES
INTENSIVE BREEDING FACILITIES
PRINTERS
DATA CENTRES
BRICKWORKS
HANGARS

ECOOL 16 / 20

ECOOL 30 / 30A / 30L

Roof, floor or wall-mounted solutions

Low-noise axial fan

-75% installation costs and -90% running costs

Remote assistance with the ECOOL-i app

10-year warranty on the machine body

Ideal for treating large volumes of air

ECOOL
16 / 20

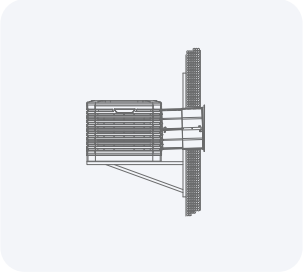
Consumption
850W

Surface
Up to 200 m²

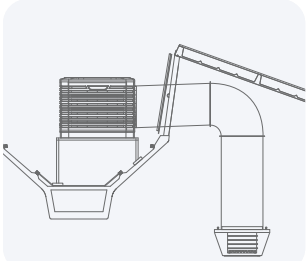
Specially designed for wall and roof applications, they are a very eco-friendly, compact and cost-effective solution.

The ECOOL 16 and ECOOL 20 coolers are equipped with Brushless DC motors that ensure low consumption and low noise. They can cool areas up to with only 850 W used. These models can be equipped with a pre-filter to protect PADs from pollen, dust and other external agents.

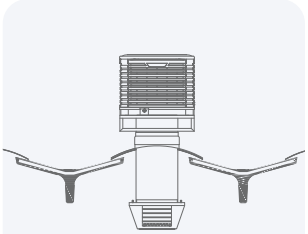
Installation types



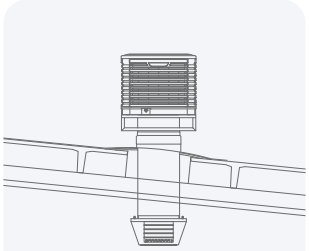
ECOOL 16
wall installation



ECOOL 16
shed installation



ECOOL 20
roof installation



ECOOL 20
roof installation

Technical Specifications	ECOOL 16	ECOOL 20
AIR DELIVERY	2,000-16,000 m³/h	2,000-16,000 m³/h
ENERGY CONSUMPTION	850 W - 230 V - 50 Hz	850 W - 230 V - 50 Hz
MOTOR	DC Brushless	DC Brushless
WATER RESERVE	18 L	18 L
WATER CONSUMPTION	25-40 l/h	25-40 l/h
PRESSURE	160 Pa	160 Pa
DIMENSIONS (W×D×H)	110×116×83 cm	110×110×83 cm
WEIGHT	55 kg	48 kg
NOISE LEVEL @5M <	≤ 55 dB	≤ 55 dB
COOLED SURFACE	**up to 200 m²**	**up to 200 m²**
AIRFLOW	lateral	from below

ECOOL
30 / 30A / 30L

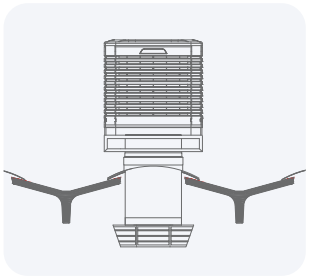
Consumption
3000W

Surface
Up to 350 m²

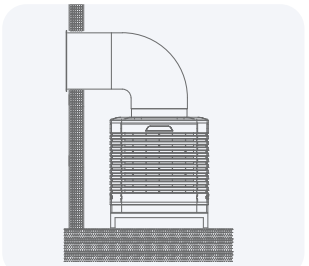
Suitable for large environments with high thermal loads.

All units can be installed on the roof, wall or floor. The ECOOL30 - ECOOL30A - ECOOL30L coolers can mitigate the temperature of areas up to 350 m² with only 3 kW engaged. Equipped with an inverter motor they offer excellent performance and can be equipped with a pre-filter to protect PADs from pollen, dust and other external agents.

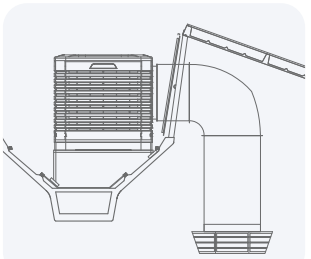
Installation types



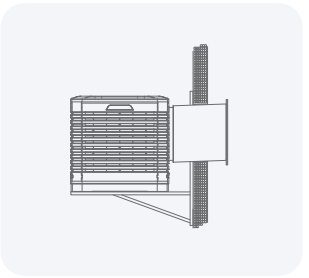
ECOOL 30
roof installation



ECOOL 30A
floor installation



ECOOL 30L
shed installation



ECOOL 30L
wall installation

Technical Specifications	ECOOL 30	ECOOL 30A	ECOOL 30L
AIR DELIVERY	8,000-30,000 m³/h	8,000-30,000 m³/h	8,000-30,000 m³/h
ENERGY CONSUMPTION	3000 W - 400 V - 50 Hz	3000 W - 400 V - 50 Hz	3000 W - 400 V - 50 Hz
MOTOR	Inverter	Inverter	Inverter
WATER RESERVE	25 L	25 L	25 L
WATER CONSUMPTION	30-50 l/h	30-50 l/h	30-50 l/h
PRESSURE	360 Pa	360 Pa	360 Pa
DIMENSIONS (W×D×H)	135×135×131 cm	135×135×143 cm	135×145×131 cm
WEIGHT	125 kg	152 kg	161 kg
NOISE LEVEL @5M <	≤ 78 dB	≤ 78 dB	≤ 78 dB
COOLED SURFACE	**up to 350 m²**	**up to 350 m²**	**up to 350 m²**
AIRFLOW	from below	from above	lateral

Mobile industrial coolers

Efficient, cost-effective and eco-friendly solution for localised cooling

Ready to use, they require no installation and can be easily positioned where and when they are needed.

Ideal for:

WORKSTATIONS
WORKSHOPS
LABORATORIES
INDUSTRIAL SHEDS
WAREHOUSES
FACTORIES
TENSILE STRUCTURES
EXHIBITION CENTRES
GARDENS
OPEN-AIR TERRACES
EVENTS
FESTIVALS
OUTDOOR PARTIES
HANGARS

Easy to install

They do not require installation and are ideal for cooling work cells, machinery and products subject to overheating, as well as large areas for collective events. They require very little maintenance.

Ecological and practical

They work with open doors and windows without excessive energy expenditure. The internal UV lamp provides water disinfection while the included remote control from a distance.

Effective everywhere

Professional portable evaporative coolers can cool rooms ranging from 100 m² to 500 m², even in open spaces and with power consumption ranging from 200 W to 1300 W maximum.

Product range

ECOOL 7P

ECOOL 15P

ECOOL 22P

ECOOL 30P

Fast, localised cooling

Plug & Play solutions

Large wheels for easy movement

Extremely low operating costs

Easily removable prefilters

Antimicrobial technology

Many studies have shown that the integrated UV lamp can disinfect water up to 99.9%.
Effective against microbes and bacteria, it does not alter the properties of water and does not generate residues or unpleasant odours.

ECOOL
7P/15P

Consumption
200/680 W

Surface
Up to 220 m²

Mobile coolers are ideal for small and medium-sized rooms (100/220 m²).

They provide a 3-speed adjustable airflow with the help of an automatic swinging function and are equipped with a remote control for remote control.
The large water reservoir with an integrated UV lamp allows a long operating time and the low power consumption ensures very low running costs.
Ready for direct connection to the water mains with a quick coupling fitting, they have a durable casing and feature easily removable and washable prefilters.

Technical Specifications	ECOOL 7P	ECOOL 15P
AIR DELIVERY	7,000 m ³/h	15,000 m ³/h
ENERGY CONSUMPTION	200 W - 230 V - 50 Hz	680 W - 230 V - 50 Hz
WATER RESERVE	50 l	100 l
WATER CONSUMPTION	5–10 l/h	5–20 l/h
DIMENSIONS (W×D×H)	66×44×117 cm	86×55×139 cm
PACKAGING DIMENSIONS (W×D×H)	66×45×116 cm	89×58×130 cm
WEIGHT	23 kg	40 kg
WEIGHT WITH PACKAGING	25 kg	42 kg
AUTOMATIC SWINGING FUNCTION	Yes	Yes
PROVISION FOR PERMANENT WATER CONNECTION	Yes	Yes
NOISE LEVEL @5M <	≤ 58 dB	≤ 65 dB
COOLED SURFACE	**up to 120 m²**	**up to 220 m²**

ECOOL
22P / 30P

Consumption
750/1300 W

Surface
Up to 400 m²

Mobile coolers are ideal for medium and large-sized rooms (up to 400 m²).

Evaporative coolers manufactured entirely in Italy, with impact and corrosion-resistant polyethylene casing. Equipped with automatic water filling by connecting to the water mains or manual filling. The large tank ensures long working autonomy.

Provided with castors and brakes for easy handling and repositioning as required.
Backlit display for speed control and adjustment.

Technical Specifications	ECOOL 22P	ECOOL 30P
AIR DELIVERY	22,000 m ³/h	30,000 m ³/h
ENERGY CONSUMPTION	750 W - 230 V - 50 Hz	1300 W - 230 V - 50 Hz
WATER RESERVE	120 l	200 l
WATER CONSUMPTION	10–15 l/h	15–20 l/h
DIMENSIONS (W×D×H)	123×64×173 cm	169×92×191 cm
PACKAGING DIMENSIONS (W×D×H)	130×72×193 cm	100×176×210 cm
WEIGHT	64 kg	130 kg
WEIGHT WITH PACKAGING	69 kg	140 kg
AUTOMATIC SWINGING FUNCTION	Yes	No
PROVISION FOR PERMANENT WATER CONNEC-TION	Yes	Yes
NOISE LEVEL @5M <	≤ 67 dB	≤ 70 dB
COOLED SURFACE	**up to 250 m²**	**up to 400 m²**

Commercial mobile coolers

The portable solution for all commercial environments

ECOOL 5P

Consumption
250W

Surface
Up to 100 m²

Innovative and refined design, ECOOL 5P integrates perfectly into all catering venues.

Light and quiet, it guarantees a small footprint and cools rooms of up to 100 m² with low energy consumption. With a large backlit touchscreen display, it is equipped with a capacious tank for long working autonomy.
Automatic swinging function. It has an adjustable 3-speed airflow and is equipped with a remote control for remote control. Ready for direct connection to the water mains, it has an elegant and durable body.

Technical Specifications	ECOOL 5P
AIR DELIVERY	5000 m ³/h
ENERGY CONSUMPTION	250 W - 230 V - 50 Hz
TANK CAPACITY	69 L
WATER CONSUMPTION	4-6 l/h
DIMENSIONS (W×D×H)	62×45×133 cm
WEIGHT	25 kg
AUTOMATIC SWINGING FUNCTION	Yes
PROVISION FOR PERMANENT WATER CONNECTION	Yes
NOISE LEVEL @5M <	≤ 45 dB (A)
COOLED SURFACE	**up to 100 m²**


ECOOL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