

A fresh cool breeze

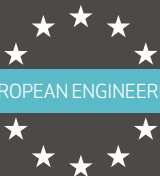


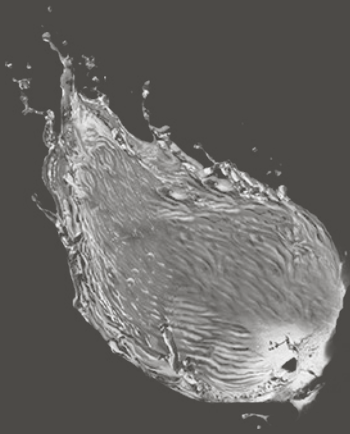
A natural way of saving

 **BIOCOOL**

ECO Cooling Solutions

EUROPEAN ENGINEERING





HOW IT WORKS...

COOLING BY EVAPORATION: THE BEAUTY IS IN ITS SIMPLICITY.

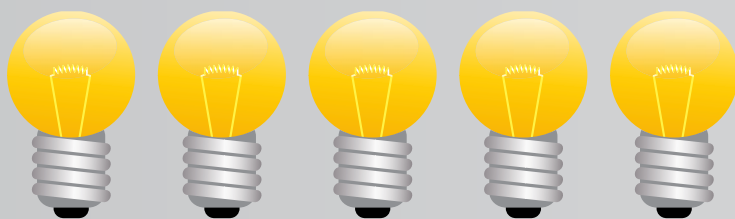
Operation is easy: The outdoor hot air is moistened when passing through the water-soaked filters, freshening the air that, already filtered, is driven indoors with up to 12°C lower temperature. This is the same principle of a natural sea breeze.



-12°
relative to
the outside
temperature



AIR CONDITIONING / ENERGY CONSUMPTION



ENERGY SAVING

- VENTILATION THROUGH FRESH AND NATURAL AIR
- DECREASE IN TEMPERATURE UP TO 12° C
- FUMES AND ODOUR REMOVAL
- INCREASE IN PRODUCTIVITY BY UP TO 20%
- 80% LOWER THAN AN A.A.

BIOCOOL



MAXIMUM ENERGY SAVING

CLOSED DOORS ARE NOT REQUIRED

- IMPROVE WORKING CONDITIONS
- REDUCTION IN THE STATIC ELECTRICITY
- LOW OPERATIONAL COSTS

BIOCOOL IS A NATURALLY COOLED AIR THAT INCORPORATES EUROPEAN CUTTING-EDGE ENGINEERING DESIGNED TO RESIST EVEN THE MOST EXTREMELY CLIMATES

REPRODUCES THE EFFECT OF THE SEA BREEZE, DRIVING FRESH AND NATURAL AIR INSIDE.

All our units are provided with large cooling pads, which are always damp during the operational cycle. The warm air is drawn inside the cooler through a silent and powerful fan. **The air goes through the damp pads and part of the heat is absorbed through the natural evaporation process resulting in a fresh breeze.**

Temperature of the driven air ranges between 4°C and 12°C lower than the outdoor air, driving air between 20 and 25°C approximately.

The machine has systems and automatisms minimising maintenance and increasing flexibility in the system to be adapted to each application.

This combination makes living spaces be more comfortable, improving mood, reducing absenteeism and increasing productivity.

 **BIOCOOL**
ECO Cooling Solutions

**HIGH PERFORMANCE
LOW CONSUMPTION**



SUPERIOR MATERIALS

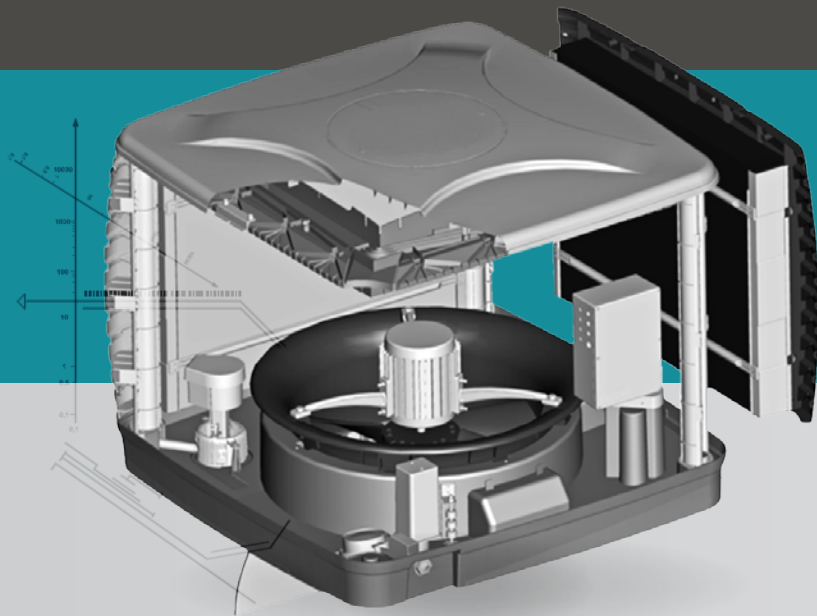
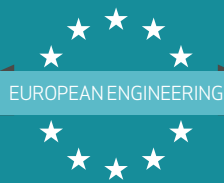


ALL MATERIALS ARE MOULD INJECTED AND HIGH QUALITY, offering a 2-year guarantee in all the components, 10 years for structural components and 20 years against corrosion. Mechanical elements have been appropriately designed and have passed stringent quality controls.

2
GUARANTEE
COMPONENTS
YEARS

10
GUARANTEE
STRUCTURAL
YEARS

20
GUARANTEE
ANTI-CORROSION
YEARS



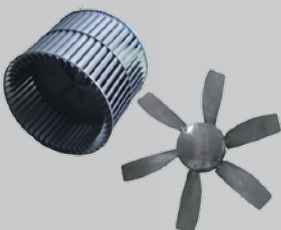
PRE-FILTERS

Side pre-filters (optional) ensure maintenance of the wetting filters when units operate in dirty or stale air environments (mosquitoes, pine needles, etc...).



PROGRAMMABLE CONTROL

The control allows to have full information and detailed programming of schedules and comfort parameters.



INTERNAL FAN

The internal fan, which is completely made of plastic, is silent and highly efficient. It is controlled by a single-phase motor of variable speed allowing to adjust the flow at any time and need.



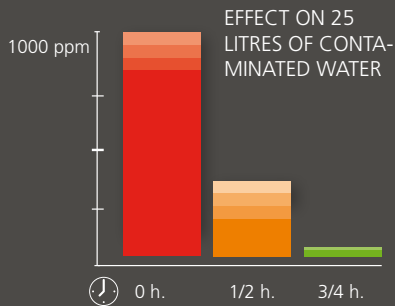
HIGH EFFICIENCY PANELS

High efficiency panels allow BIOCOOL air-conditioners to perform at its full potential, being moistened in a uniform way and letting the appropriate air flow pass, also acting as a particle filter.

ANTIMICROBIAL OZONE TECHNOLOGY

KEEPING YOUR UNIT CLEAN HAS NEVER BEEN SO EASY

THE INTEGRATED OZONE SYSTEM (OPTIONAL) allows, as many studies show, to reduce ostensibly the quantity of microbes in the water during the first hour of operation and remove them completely after 3-4 hours operating.

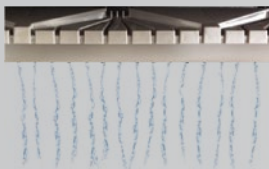
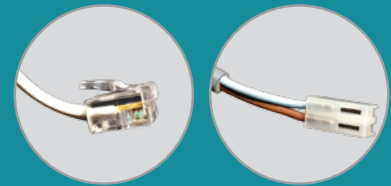


WHICH ARE THE ADVANTAGES OF OZONE GENERATORS? HOW DO THEY WORK?

Thanks to the ozone, odours are eliminated, the atmosphere is sterilized and purified, making the air cleaner and disinfected. Polluting products such as chlorine for cleaning are not needed as the ozone generator integrated is from 600 to 3,000 times faster and effective than chlorine. In addition to preventing from hyper-chlorination, ozone does not produce an increase in inorganic salts or harmful products in the water.

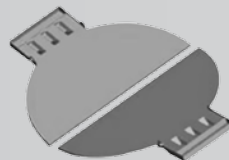
BIOCOOL

ECO Cooling Solutions



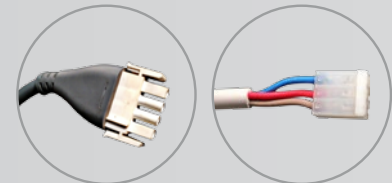
INTEGRAL WATER DISTRIBUTION

- Unequalled distribution of water flow.
- Fully balanced and continuous water distribution to all the cooling pads.
- Maintains the pad saturation at the appropriate level, maximizing the effectiveness of cooling.



AUTOMATIC DUCT LOCK SYSTEM

- Activated when the cooler is not in operation.
- Prevents from dust and dirt accumulation during the winter.
- Stops the "chimney effect" avoiding hot air to escape or outdoor air inside.



RAPID CONNECTORS

BIOCOOL rapid connectors provide the equipment with higher quality. Maintenance tasks and component replacements are easier and compatible with the main international manufacturers.



WATER MANAGEMENT SYSTEM

The integrated water management system consists of a pump, drainage system and water detection system. All this ensures the maximum saving in water management and low maintenance.



PUMP

- Exceptional reliability in extreme conditions.
- Australian design and manufacture.
- Dry running.



AUTOMATIC DRAINAGE SYSTEM

Allows the machine to be maintained in good conditions avoiding costly maintenance work and with clean and non-standing water. Combined with the electrovalve, allows to keep the tank completely dry.



ADVANCED CONTROL SYSTEMS

FACTORS SUCH AS HUMIDITY AND TEMPERATURE PLAY A KEY ROLE. To adapt to these situations, the remote control functions, with their advanced features and personalization, allow the system to meet any installation requirements.



CONTROL OPTIONS

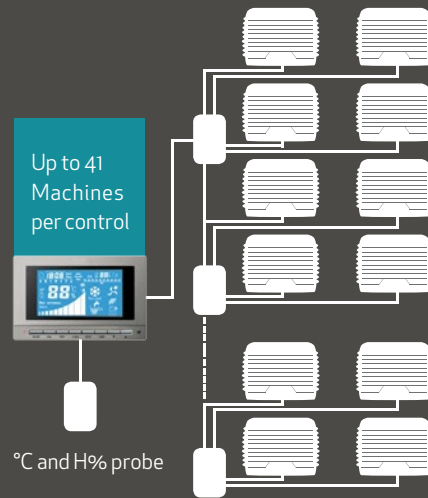
- PROGRAMMING BY HUMIDITY AND/OR TEMPERATURE (3 PROGRAMMABLE PRE-SET MODES)
- PRE-COOLING SYSTEM BEFORE STARTING-UP TO PREVENT FROM HOT AIR IN
- FILTER DRYING BEFORE STOPPING FOR MAXIMISING HYGIENE
- DAILY OPERATION PROGRAMMING (UP TO 8 WEEKLY EVENTS)
- EXTERNAL SENSOR FOR TEMPERATURE AND HUMIDITY

WIDE-RANGING SYSTEM MANAGEMENT

BIOCOOL units are supplied with a unitary control allowing the most usual functions such as the start-up and shutdown of the machine and pump, which allows to be used as ventilation exclusively as well as adjusting the 10 different air flow levels.

Provided with an automatic mode with maintenance of schedule, temperature and humidity wanted.

BIOCOOL is provided with a digital control which, through a sensor, allows the temperature and humidity level to be controlled and programmed.



PROVIDED WITH A HUB ALLOWING SEVERAL MACHINES TO BE ATTACHED IN ORDER TO OPERATE UNITS WITH A SINGLE CONTROL.

BIOCOOL
ECO Cooling Solutions

REMOTE CONTROL
HUMIDITY AND TEMPERATURE






- DRAINAGE PROGRAMMING PER ADJUSTABLE TIME
- RECOVERY OF OPERATION PARAMETERS IF LIGHT LOSS
- INDIVIDUAL OR GROUP HANDLING OF THE UNITS THROUGH THE REMOTE CONTROL
- IDENTIFICATION OF FAULTS AND ORIGIN

COMPATIBLE WITH

SMART CITY 
COOLER

WHAT OPTIONS DOES THE MARKET OFFER YOU?

	VENTILATION 	BIOCOOL 	TRADITIONAL AIR CONDITIONING 
ADVANTAGES >	<ul style="list-style-type: none"> Low investment cost Low operation cost Enables open facilities 	<ul style="list-style-type: none"> Low investment cost Enables open facilities Low operation cost Filtered inside air Constant level of humidity 	<ul style="list-style-type: none"> T° total control
DISADVANTAGES >	<ul style="list-style-type: none"> Temperature is not reduced (Limit to outside T°) 	<ul style="list-style-type: none"> Temperature required according to outside temperature (approximate supply T°= 24C°) 	<ul style="list-style-type: none"> High investment cost High operation cost closed doors Health hazard Thermal gaps Dry environment



BIO-18D AV / BIO-18DC AV



BIO-18T CV



BIO-30D A2



BIO-30T A2

MODELS	BIO-18D AV	BIO-18D CV	BIO-18T CV	BIO-30D A2	BIO-30T A2
FLOW (m3/h)	18.000	18.000	18.000	30.000	30.000
FAN	Axial	Centrifugal	Centrifugal	Axial	Axial
FAN SPEEDS	10	10	10	2	2
PRESSURE (Pa)	190	163	163	366	366
CONSUMPTION (kw)	1.2	1.8	1.8	4	4
VOLTAGE / HZ	220/50	220/50	220/50	380/50	380/50
AMPERES (A)	5.6	8.5	8.5	6.82/7.1	6.82/7.1
MAX NOISE LEVEL (dBA)	< 76	< 70	< 70	< 80	< 80
DIMENSIONS LxWxH (mm)	1150x1150x950	1150x1150x982	1150x1150x982	1250x1250x1310	1250x1250x1310
AIR OUTLET SURFACE (mm)	660x660	660x660	660x660	770x770	770x770
NET WEIGHT (kg)	80	87	87	120	120
SERVICE WEIGHT (kg)	110	117	117	175	175
WATER CAPACITY (L)	30	30	30	55	55

A= Axial
C= Centrifugal

2= 2 speeds
V= Speed

T= Upper outlet
D= Lower outlet