

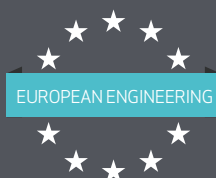
 **BIOCOOL**

*ECO Cooling Solutions*



# COOLING INNOVATION

INDUSTRIES, SCHOOLS, SPORT CENTERS, HOUSES





**APP FOR IOS AND ANDROID,**  
CHECK THE PERFORMANCE OF  
BIOCOOL IN YOUR CITY



**WEB WITH ENERGY SAVINGS  
CALCULATOR,** DIMENSIONS  
AND COMPARING BIOCOOL  
SYSTEM FRONT A / C



**BIOCOOL GUIDE,** GUIDE  
INFORMATION AND  
APPLICATION SYSTEM

# BIOCOOL, CREATIVE INNOVATIONS TO THE COMFORT AND AIR QUALITY

## EXPERIENCE, RESTLESSNESS, SPECIALIZATION

During many years of experience both in product and market needs, Biocool collects all those necessary aspects to provide the best solution to the needs of natural conditioning by evaporative cooling. **The innovation has been the axis of development in order to achieve our objectives and obtain a product that make a sustainable system as a serious option to consider.** Our commitment is to continue improving and we thank our customers and collaborators for their sincere contributions.

MANUFACTURED BY:



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AWARDS



VIII PREMIOS  
- 2014 -  
EMPRESA GANADORA



## OPERATION

**BIOCOOL**

ECO Cooling Solutions

## EVAPORATIVE COOLING IS PRESENT IN NATURE

Sometimes nature puts at our disposal resources that make our life more comfortable and respectful with the environment.

The evaporative cooling is present in nature, in places close to the water as the waterfalls, lakes, seas and oceans and even on the human skin. The primitive men already applied rudimentary cooling techniques on the basis of this observation.

**BIOCOOL REPRODUCES THE EFFECT OF A SEA BREEZE, DRIVING FRESH AIR INSIDE**

### ¿HOW IT WORKS?

AS THE AIR PASSES THROUGH THE DAMP PADS, SOME OF THE HEAT IS ABSORBED BY NATURAL EVAPORATION AND A FRESH BREEZE IS BLOWN OUT.

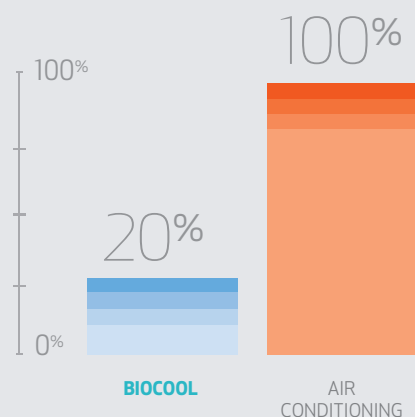
Temperature of the air emitted is between 4°C and 12°C lower than the outdoor air, at approximately 20 to 25°C.

**The machine has automatic control which minimise maintenance and allow it to be adapted to different applications.**

**THIS COMBINATION MAKES LIVING SPACES MORE COMFORTABLE**

## A SUSTAINABLE SYSTEM

The Bio-air conditioning is a way of cooling, in addition is economic, healthy and ecological. This system allows the constant renewal of air, improving its quality as it introduces clean and filtered air inside the space, evacuating bad odors, smoke and gases to the outside, allowing to maintain the open spaces.



MAXIMUM ENERGY SAVING



34 °C

25 °C

## BENEFITS OBTAINED WITH BIOCOOL



REDUCES TEMPERATURE BETWEEN 7 °C AND 20 °C BY EXTERNAL CONDITIONS



NO NEED TO CLOSE DOORS OR WINDOWS



LOW ENERGY CONSUMPTION AND SPENDS UP TO 80% LESS THAN AN A/C



REDUCES STATIC ELECTRICITY



IMPROVES AIR QUALITY BY MOVING DUST, FUMES AND ODORS



IMPROVES PRODUCTIVITY IN INDUSTRIES



ALLOWS AIR CONDITIONING OF CERTAIN AREAS

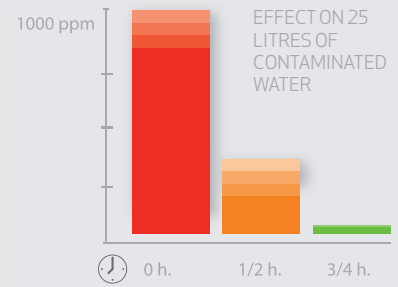


100% RENEWAL OF FRESH AND FILTERED OUTSIDE AIR

## ANTIMICROBIAL OZONE TECHNOLOGY

KEEPING YOUR UNIT CLEAN HAS NEVER BEEN SO EASY

THE INTEGRATED OZONE SYSTEM reduces the quantity of microbes in the water during the first hour of operation and removes them completely after three to four hours of operating. This has been demonstrated by research.



## COMPONENTS INNOVATION



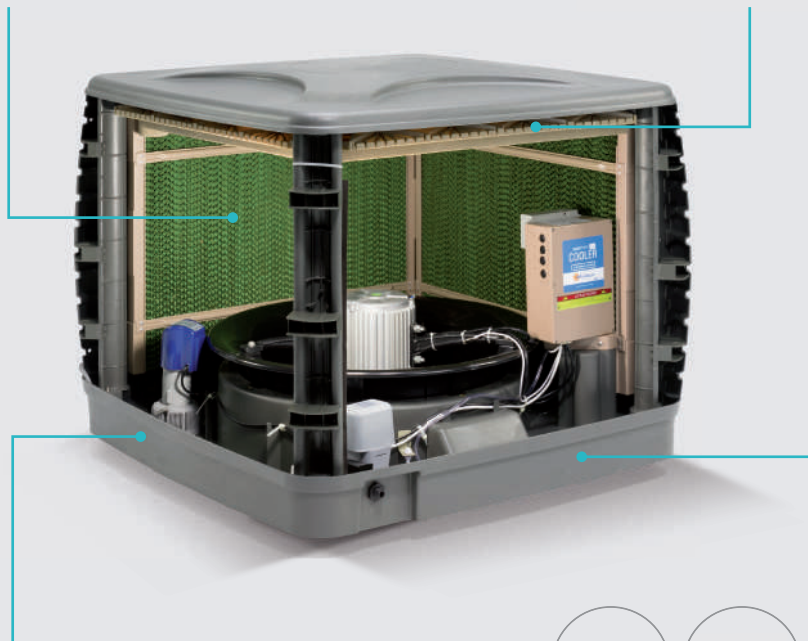
### PRE-FILTERS

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



### INTEGRAL WATER DISTRIBUTION MAINTAINS

- Unequalled distribution of water flow
- Fully balanced and continuous water distribution to all cooling pads
- Pad saturation at the correct level, maximising the effectiveness of cooling.



### AUTOMATIC DUCT LOCK SYSTEM

- Is activated when the cooler is not activated
- Prevents dust and dirt accumulating during the winter.
- Stops the "chimney effect", so preventing hot air from escaping and outdoor air coming in.



### EXTERNAL DISCONNECTOR

External power switch with integrated fuse to protect the unit and maintenance works with security.



### RAPID CONNECTORS

BIOCOOL rapid connectors are of high quality and compatible with the main international manufacturers; this makes maintenance tasks and component replacement easier.



SMART CITY   
**COOLER**  
CONTROL

-  FROM THE DESK OR FORM OUT
-  FROM PC, TABLET OR SMARTPHONE
-  PLATFORM THAT ALLOWS TO GROUP MULTIPLE LOCATIONS
-  HISTORICAL DATA REGISTRATION

## THE CONTROL SYSTEM MOST ADVANCED ON THE MARKET. MADE IN MODBUS PROTOCOL

- > **PROGRAMING ACCORDING TO HUMIDITY** (3 PROGRAMABLE PRE-SET MODES)
- > **PRE-COOLING SYSTEM** BEFORE START-UP PREVENT HOT AIR ENTERING
- > **FILTER DRYING BEFORE** STOPPING MAXIMISES HYGIENE
- > **DAILY OPERATION** CAN BE PROGRAMMED FOR THE NEXT EIGHT WEEKS
- > **EXTERNAL SENSOR** READS TEMPERATURE AND HUMIDITY

- > **DRAIMAGE TIMED** IS ADJUSTABLE
- > **OPERATION PARAMETERS** CAN BE RECOVERED IN THE EVENT OF A POWER OUTAGE
- > **INDIVIDUAL OR GROUP OPERATION** OF UNITS BY REMOTE CONTROL
- > **IDENTIFICATION OF FAULTS** AND THEIR ORIGIN
- > **ALLOWS TO LIMIT THE HUMIDITY PROVIDED** THAT INFLUENCE THE ENVIRONMENTAL CONDITIONS



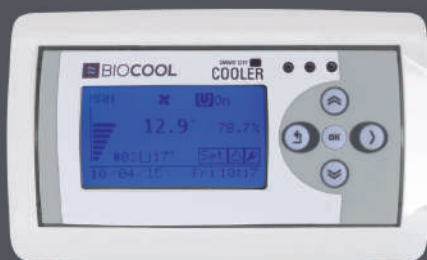
GROUP CONTROL UP TO 10 UNITS. ADMITS HUMIDITY AND AMBIENT TEMPERATURE SENSOR TO LOCAL MANAGEMENT



## KNOW ABOUT THE EFFICIENCY AND MAINTENANCE REQUIREMENT FROM YOUR TABLET OR PC

- > **HIGHLY PARAMETERIZABLE.** OPERATING IN MANUAL MODE OR AUTO, WEEKLY TIMER, CLEANING, ETC.
- > **REPORTS THE EFFICIENCY,** MECHANICAL OR FUNCTIONING FAULTS OF EACH UNIT
- > **CONNECTABLE TO THE LOCAL NETWORK** TO SEE FROM PC, TABLET OR MOBILE ON THE WEBSITE
- > **ACCESSIBLE FROM THE OUTSIDE** FOR MAXIMUM CONTROL

- > **INTEGRATABLE WITH OTHER SYSTEMS** OF CONTROL OF THE MARKET BY CAN BUS AND MODUS
- > **ALLOWS OPTIMIZATION OF "FREECOOLING"** WITH SENSOR OF EXTERNAL CONDITIONS. °C AND HR%
- > **PROTECTED CONTROL** BY ACCESS KEY
- > **ALLOWS TO DISCONNECT UNITS** OF THE GROUP AREA
- > **RECORDS HISTORICAL DATA** FROM SENSORS AND HOURS OF OPERATION, DOWNLOADABLE TO PC EN PC



ADVANCED CONTROL SYSTEM UP TO 10 UNITS THAT ALLOWS ITS CONNECTION TO LOCAL NETWORK TO ACCESS THE INTERNAL WEBSERVER IN ADDITION TO ALLOW CONNECTION WITH HUMIDITY AND TEMPERATURE SENSORS BOTH AMBIENT AS EXTERIOR



INTEGRATED WITH: SIEMENS





## APPLICATIONS BY SECTORS

**THE EVAPORATIVE BIO-AIR CONDITIONING IS ESPECIALLY INDICATED FOR COOL LARGE SURFACES,** MAINLY DUE TO ITS MINIMUM ENERGY CONSUMPTION, BECAUSE USING TRADITIONAL SYSTEMS WOULD BE ALMOST UNSUSTAINABLE.



- > TEXTILE
- > FOUNDRIES
- > RESIDENCES





> CENTERS AND  
COMMERCIAL  
BUILDINGS

> FOOD INDUSTRY

> CERAMICS

> SCHOOLS

> LAUNDRIES



> GREENHOUSES

> PHARMACEUTICAL  
WAREHOUSES

> CAR DEALERSHIP AND  
GARAGES

> TECHNICAL ROOMS/  
DATA CENTERS

> PLASTICS



Mercedes-Benz



## WIDE RANGE OF MODELS

 **BIOCOOL**

ECO Cooling Solutions

### BIO/18AV

- > FLOW 18.000M3/H
- > AXIAL FAN
- > SERVICE WEIGHT 110 KG
- > SINGLE-PHASE MOTOR WITH ADJUSTABLE FLOW
- > MAX CONSUMPTION 1,2 KW
- > AVAILABLE IN LOWER AND UPPER OUTLET

### BIO/30A

- > FLOW 30.000 M3/H
- > AXIAL FAN
- > SERVICE WEIGHT 175 KG
- > THREE-PHASE MOTOR WITH ADJUSTABLE FLOW AND 2 SPEEDS
- > MAX CONSUMPTION 3 KW
- > AVAILABLE IN LOWER AND UPPER OUTLET



### BIO/18AIV

**30% LOWER ENERGY CONSUMPTION**

- > FLOW 18.000M3/H
- > AXIAL INVERTER FAN
- > SERVICE WIGHT 100 KG
- > SINGLE-PHASE MOTOR WITH ADJUSTABLE FLOW
- > AVAILABLE IN LOWERAND AND UPPER OUTLET

# REQUEST THE DATA SHEET OF EACH PRODUCT



## BIO/18CV

- > FLOW 18.000 M3/H
- > CENTRIFUGAL INVERTER FAN
- > SERVICE WEIGHT 112 KG
- > MOTOR WITH ADJUSTABLE FLOW
- > MAX CONSUMPTION 1,2 KW
- > AVAILABLE IN LOWER OUTLET
- > SILENT



## BIO/PT

- > PORTABLE AND LIGHTWEIGHT
- > SWING IN 3 MODES
- > UP TO 6 HOURS AUTONOMY
- > REMOTE CONTROL
- > FLOW 6000 M3/H
- > APPROX. COVERAGE 50 M2



## BIO/EXH

- > EXTRACTOR 15.000 M3H
- > CONSUMPTION 1,2 KW
- > EXTERNAL PRE-FILTERS



**2**  
**GUARANTEE**  
COMPONENTS  
YEARS

**10**  
**GUARANTEE**  
STRUCTURAL  
YEARS

**20**  
**GUARANTEE**  
ANTI-CORROSION  
YEARS

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