

# INDUSTRIAL AIR-CONDITIONING AND VENTILATION SOLUTIONS





Eco-friendly air-conditioning systems



## About Us

We are a world leader with our unrivaled design expertise in heating, ventilation, and air-conditioning technologies unharmed to our world or to the environment. We are proud to be innovative design engineers capable of coping with the most challenging problems in our field. We have been a solution partner to many leading companies in the world and carried out successful projects.

Evaporatif® cooling systems offer new solutions in the field of economical, sustainable, environmentally friendly, healthy and clean air-conditioning systems needed today in Turkey and in the world. We develop innovative solutions in line with the needs of our customers and produce clean environment products with stationary and portable Evaporatif® coolers to meet the expectations of our customers.

Solutions designed by Evaporatif® provide both climate control and comfort in all industrial sectors, including food and beverage, plastic, automotive, electronics, pharmaceutical manufacturing, and storage specialist environments. We will reduce the operating costs and establish a great working environment that will increase your productivity. We passionately do our job with high quality for you.

## What we offer

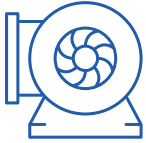
Thanks to our passion for and consistent efforts in innovation, Evaporatif® is now a true leader in HVAC solutions.

Evaporatif® has been a pioneer in high-tech solutions that protect the environment for more than 12 years. Many of the widely accepted cooling applications were initiated by Evaporatif®. And, they are currently used throughout the industry.

We have been working breathlessly from the very beginning to create a tailored design solution for our customers. We install the latest technologies to provide the most efficient system, and we keep fine-tuning through our full maintenance services to ensure everything runs smoothly 24/7.







# What is evaporative<sup>®</sup> cooling?

Evaporative cooling is based on the principle that water evaporates and takes heat from the air. While evaporating, water draws heat from the air causing the air to cool.

A simple example of evaporative cooling is when one goes out of the pool or shower and feels chillness with the effect of the breeze around you and evaporation of water from your body.

Evaporatif<sup>®</sup> is designed inspired by a natural process such as sea breeze.

Sea breeze carries fresh and cool air.

Sea breeze is fresh because it carries warm air along the surface of the water, and this air movement vaporizes some water and it absorbs heat, resulting in a clean, cool and healthy air source.

Evaporatif<sup>®</sup> ensures a continuous flow of fresh, natural, and cool air without using any environmentally hazardous gas.





## Compared to the conventional coolers, evaporative coolers are more **advantageous;**



### Because,

- They provide fresh, cooled and filtered air to the atmosphere,
- Smoke expels suspended dust particles and odors,
- As the temperature increases, cooling efficiency and capacity increase,
- They consume low energy, and they are more economic (up to 90%) compared to conventional systems,
- Lower initial and ongoing costs - up to 50% less on purchase - may reduce the maintenance and repair cost by more than fifty percent,
- They are easy to install and require minimum maintenance,
- They reduce static electricity,
- They provide cooling when doors and windows are open,
- They are useful for allergy and asthma patients due to the moisture in the air they blow, and
- They contain no harmful gas.





## Quality cooling with a natural and eco-friendly solution

Unfortunately today, climate change has a negative impact on our lives in many ways. Hot weather conditions reduce the quality and work efficiency of working environments. Evaporatif® cooling technologies now manage to change the ideal indoor need in every way to establish healthy working environments. Thanks to the eco-friendly and sustainable technologies it has developed, it consumes less energy and water compared to conventional air conditioners and causes lower CO<sub>2</sub> emissions. We use recyclable materials with the intent to leave a livable and clean future for the next generations.

### *Reduce the carbon footprint of your business.*

In the world, conventional air-conditioning methods, which unfortunately contain dangerous cooling gases and recirculate air used in indoor spaces, are very common. Outdated devices with high energy consumption and high CO<sub>2</sub> emissions are dangerous for our environment. The evaporative cooling method is based on the principle of natural force formed by the evaporation of water. It is surely reasonable to copy Mother Nature, but it is not easy to make this principle feasible in large buildings or in a wide variety of climatic conditions. At this point, Evaporatif®'s innovations step in.







## Quality indoor air

Until recently, there was no economical way to comfortably cool and ventilate large areas and commercial buildings in our territory. Hot climatic conditions were negatively affecting the performance in workplaces and were not conforming to the working regulations. Every employer has an ethical and legal duty to provide their employees with quality air and climate conditions in their workplaces. However, due to high costs, many businesses fail to provide proper or required ventilation and air-conditioning. At this point, Evaporatif® offers eco-friendly and affordable solutions.

### *Evaporatif® improves air-conditioning concentration*

As reported by Scientific America, US researchers Amar Cheena and Vanessa M. Patrick studied the effect of heat on decision-making and concluded that the human body uses more glucose, the main source of physical and mental energy, to cool down in 2012. In hot conditions, the body consumes an amount of glucose that could be used for cognitive processes. In other words, your body works hard to avoid overheating and cannot concentrate on other non-vital tasks. When using an evaporative air-conditioner, the mind can focus on tasks rather than survival.

### *Effective in combating virus and bacteria*

Upon request, indoor air can be cleaned out of dangerous viruses and bacteria thanks to a special filter system. Likewise, it also prevents possible penetration of dust and bacteria.



## Proper and quality investment

Compared to conventional air-conditioning projects, Evaporatif® brand designs special projects with its innovative products for your workplace with 80 percent lower investment and operating costs.



# EVAPORATİF® PRE-COOLING

AT LEAST 35% ENERGY SAVING



# Ventilation

We offer climate-friendly solutions



Sufficient and proper ventilation is crucial to ensuring an efficient and safe working environment. For indoors, Evaporatif® can provide the most suitable ventilation system that is also responsive to your business objectives.

Efficiency decreases and employees feel down in hot, non-ventilated, and oppressive working environments. Evaporatif®'s range of Ventilation Systems range comes with specific recommendations and support that give you peace of mind to help you maximize your business efficiency. Our skilled team of engineers has extensive experience in the design and installation of Industrial Ventilation and Commercial Ventilation Systems, including smoke removal in factories, warehouses, offices, retail shops, and manufacturing areas.



**AT LEAST 80%**  
**ENERGY SAVING**  
COOL AND FRESH AIR

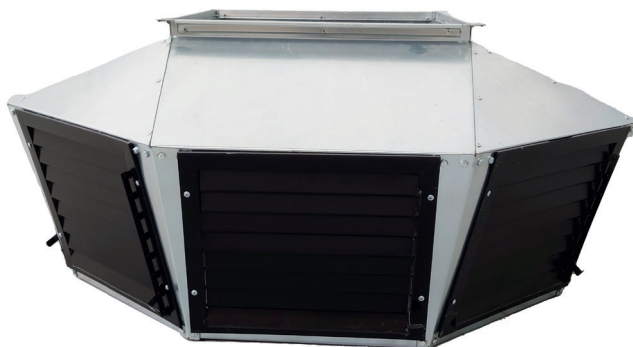




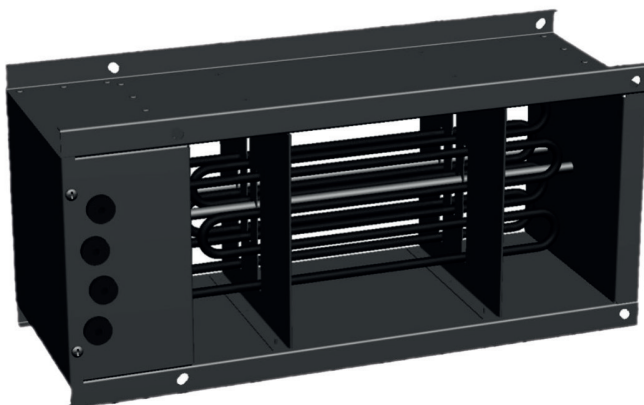
## Control Panel



## Plenum



## Heating Module



# OPTIONS

## What is Air Quality Control?

Evaporatif®'s Air Quality Control Service is designed to move particles and harmful bacteria away from the air using various mechanical processes.



### Smoke Removal

Adequate ventilation in the working environment provides many benefits to indoor buildings working with smoke or in the same environment as smoke. Smoke removal systems are vital to the health and safety of your staff and can help increase the daily productivity rates of your business.

Most effective and appropriate dust and smoke removal systems must be installed in closed areas, industrial working ambient air quality control areas, and storage facilities.



### Heat Recovery Ventilation

Heat Recovery Ventilation is an important part of all ventilation systems. Your selected ventilation will ensure regulation and control of heat transfer to help you save money and run your business more efficiently.



### Professional Support

Evaporatif®'s experienced team of ventilation experts offers systems and scheduled preventive maintenance packages to meet air quality control specifications at food production and storage facilities.

Furthermore, Evaporatif®'s service and maintenance department submits full-field system filtration logbooks to ensure filters are maintained regularly and air quality meets the specified design criteria.

The smoke removal service at Evaporatif® is built entirely around individual areas and customer needs. Since smoke removal systems vary according to the conditions of the area to be ventilated, our experts will design and implement the most effective system for you.

# Air Quality Control



Evaporatif®'s all air quality control systems come with Local Exhaust Ventilation, which ensures safe and proper production and storage environments by making the air free from harmful bacteria.

Evaporatif® has become specialized in providing air quality ventilation services, especially for the food production and storage industries.





# Model

## AND TECHNICAL SPECIFICATIONS

Model	EVAPORATİF® EVA 20
Air Flow (m3/h)	20,000
Body	Aluminum
Pressure (for 0 Pa)	200
Fan Speed	Single Speed/ 100-Speed Drive
Engine Output (kW)	1.1 (220V-380V)
Motor Efficiency Class	EC MOTOR IE5
IP Standard	IP55
Volt	230V / 380V
Fan Type	Axial
Water Tank (l)	30
Dimensions WxLxH (mm)	1150x1150x1100
Air Outlet Diameter (mm)	Ø625
Core Area (m2)	3,4
Control	On/Off - LCD Panel WiFi
Self-Cleaning Function	Automatic
Air Filter	Aluminum
Water Inlet	1/2"
Drainage	1"
Dead Weight (kg)	80
Operating Weight (kg)	110

Model	EVAPORATİF® EVA 30
Air Flow (m3/h)	30.000
Body	Aluminum
Pressure (for 0 Pa)	250
Fan Speed	Single Speed/ 100-Speed Drive
Engine Output (kW)	2.2 (220V-380V)
Motor Efficiency Class	EC MOTOR IE5
IP Standard	IP55
Volt	380V
Fan Type	Axial
Water Tank (l)	40
Dimensions WxLxH (mm)	1150x1150x1200
Air Outlet Diameter (mm)	Ø725
Core Area (m2)	4
Control	On/Off - LCD Panel WiFi
Self-Cleaning Function	Automatic
Air Filter	Aluminum
Water Inlet	1/2"
Drainage	1"
Dead Weight (kg)	80
Operating Weight (kg)	120

Model	EVAPORATİF® EVA 40
Air Flow (m3/h)	45.000
Body	Aluminum
Pressure (for 0 Pa)	250
Fan Speed	Single Speed/ 100-Speed Drive
Engine Output (kW)	3
Motor Efficiency Class	EC MOTOR IE5
IP Standard	IP55
Volt	380V
Fan Type	Axial
Water Tank (l)	40
Dimensions WxLxH (mm)	1500x1500x1100
Air Outlet Diameter (mm)	Ø925
Core Area (m2)	6
Control	On/Off - LCD Panel WiFi
Self-Cleaning Function	Automatic
Air Filter	Aluminum
Water Inlet	1/2"
Drainage	1"
Dead Weight (kg)	120
Operating Weight (kg)	160

Model	EVAPORATİF® EVA 80
Air Flow (m3/h)	80.000
Body	Aluminum
Pressure (for 0 Pa)	300
Fan Speed	Single Speed/ 100-Speed Drive
Engine Output (kW)	7,5
Motor Efficiency Class	EC MOTOR IE5
IP Standard	IP55
Volt	380V
Fan Type	Axial
Water Tank (l)	60
Dimensions WxLxH (mm)	1500x1500x160
Air Outlet Diameter (mm)	Ø925
Core Area (m2)	9
Control	On/Off - LCD Panel WiFi
Self-Cleaning Function	Automatic
Air Filter	Aluminum
Water Inlet	1/2"
Drainage	1"
Dead Weight (kg)	120
Operating Weight (kg)	160

## Avantages of Evaporatif® brand

- High performance and energy efficient EC motor
- World's most silent evaporative air conditioner
- Made of sustainable, long-lasting and recycled materials (aluminum body)
- Filter options such as HEPA filtre, F7, G4 (against Covid-19 and similar viruses and bacteria)
- Extra heating module option for winter
- Remote and mobile access and management thanks to the driver control system
- Fireproof
- Can be integrated into fire automation systems (quick smoke removal function in the case of fire)
- Software flexibility with PLC control feature
- High performance bad air exhaust feature due to the exhaust technology
- Color options according to the building color

## Sıkça Sorulan Sorular ?

### Evaporatif® klima sıcaklığı kaç derece düşürür?

Evaporatif® klimalar hava sıcaklığı ve nem oranına göre mevcut sıcaklığı 6 °C ile 12 °C  $\Delta t$  ısıyı düşürerek serinleme sağlar.

### Evaporatif® klima ne kadar elektrik tüketir?

Örneğin 250 m<sup>2</sup> alan için 1,1 kW/h elektrik tüketir.

### Evaporatif® klima ortamı kaç dereceye kadar ısıtabilir?

Evaporatif® klima ortamı 30 °C ye kadar ısıtabilir.

### Evaporatif® klima kaç yıl garanti sağlar?

Evaporatif® klima garanti süresi 3 yıldır.

### Evaporatif® klima ile hangi aralıklarla bakım yapılmalı?

Bakımı kolaydır. Evaporatif® klima yılda en az bir bakım yapılır, (ortam şartlarına göre 2 ve 3 kez bakım yapmak gerekebilir.)

### Evaporatif® klima kaç BTU soğutma sağlar?

Evaporatif® klima modele göre soğutma kapasitesi vardır. Örneğin, EVA20 model klima 210.000 BTU soğutma gücüne sahiptir (ortam koşullarına göre)



**İÇERİK BEKLENİYOR**





# Areas of Use

- Factories and Plants
- Industrial Application Areas
- Automotive and Metal Industry
- Food Establishments
- Shopping Malls
- Movie Theaters, Exhibition Centers, Bus Stations
- Houses, Workplaces, Workshops
- Car Parks, Cultural Centers, Places of Worship
- Restaurants
- Bakeries, Car Parks, Laundries
- Greenhouses, Animal Farms
- Services
- Ship Building Industry
- Automotive and Metal Industry
- Textile
- Sports Centers
- Automobile Showrooms
- Printing Houses, Plastic, Steel, Porcelain
- Playgrounds





## REFERENCES

MACARON MODA

MegaMetal™

B/S/H/

E.C.A.

arçelik



**BOSCH**  
Invented for life

Forum Aydın

VESTEL

PINAR

orkide

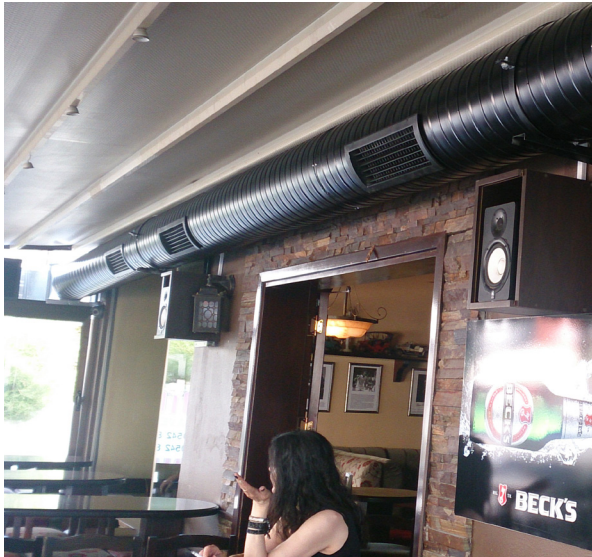
sütas



TEMSA

## CERTIFICATES

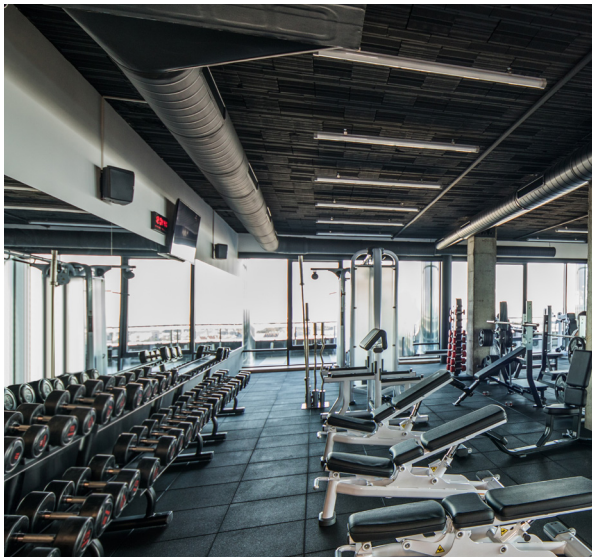




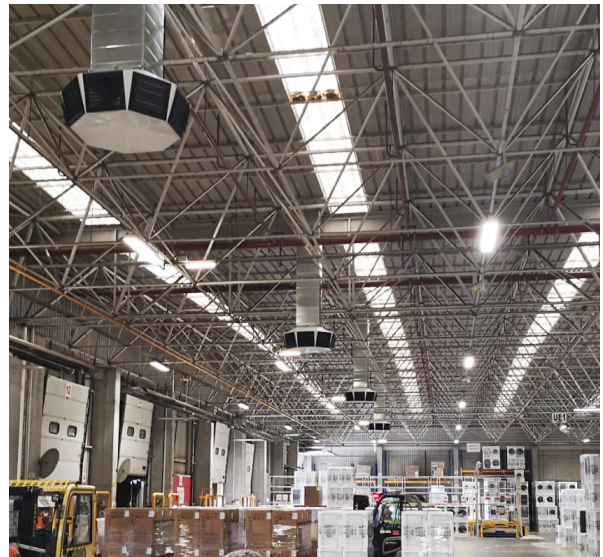
Cafes and Restaurants



Grocery Stores



Sports Centers



Warehouses



Greenhouses, Animal Farms



Automotive and Metal Industry





Factories and Plants



Data Center



Textile Industry



Food Industry



Shopping Malls



White Goods Industry





**Türkiye**

Evaporatif® Soğutma Ve Isıtma Sistemleri Arge Teknoloji San Ve Tic A.Ş.  
Kınıklı Mah. Hüseyin Yılmaz Cad. No:67/2 Paü Teknokent Binası B Blok G.15  
20160 Pamukkale / Denizli  
+90 258 2155019 / +90 5324931506

**Germany**

Ahornstr. 32 30880 Laatzen / Germany  
+49 172 8668313

