

# Evaporative Cooling Systems



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# Advanced Sustainable Environmental Solutions

Join us on a sustainable journey  
toward a cleaner, brighter future.  
Together, let's make every  
recycling effort matter.

For a better tomorrow.

# INNOVATION

The growing global population, diminishing energy resources, increased use of technology, and the rising demand for energy all drive the need for innovative energy policies across nations. Ensuring the effective use of current resources, advancing eco-friendly energy supply systems, and promoting efficient energy consumption are essential contributions we can make for future generations.

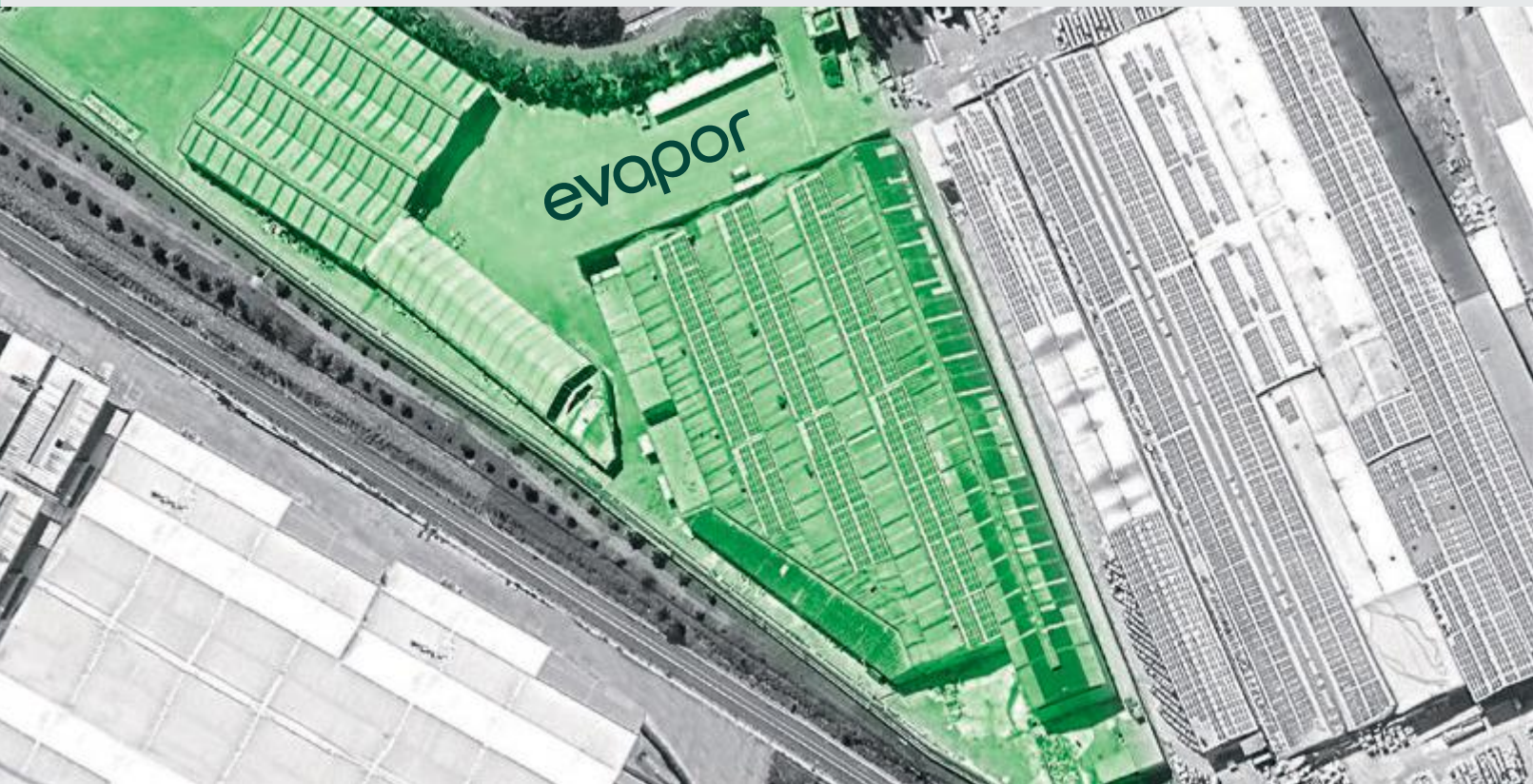
Promoting the development and widespread use of environmentally conscious technologies in energy production, along with fostering efficient energy use among end consumers, represents one of the most impactful ways to reduce greenhouse gases—which currently make up 80% of global carbon emissions.

Guided by this vision, we embarked on a mission to create a better world for the generations to come. At evapor, we design advanced, energy-efficient cooling systems that operate on an evaporative cooling principle, widely adopted today. We produce solutions that stand out in the cooling sector and provide end-to-end support from consultation and installation to after-sales service.

Founded in Türkiye, evapor brings a unique blend of innovation and air cooling expertise. Our mission is to offer value-driven services and solutions focused on energy efficiency and environmental stewardship. Our products, serving residential, industrial, agricultural, and commercial sectors, have established evapor as a trusted name in evaporative cooling.

## Our Vision;

To provide our customers with innovative, high-quality.



# PRE-SALES SERVICES

At Evapor Cooling Systems, we provide comprehensive support throughout the pre-sales process, including complimentary consultations and on-site evaluations by our expert team to help determine the best solutions for your needs. Our goal is to enhance the efficiency and performance of your projects through tailored guidance:

**Complimentary Site Evaluation:** We conduct on-site visits to assess your air conditioning and humidity control requirements.

**Technical Support and Product Selection:** Our technical consultants work with you to select the most suitable products for your specific needs.

We stand by you every step of the way, ensuring you find the right solution.

**Customized Solution Recommendations:** We provide tailored recommendations designed to meet your operational needs with high-efficiency, cost-effective options.

At evapor Cooling Systems, we go beyond simply providing products—we develop strategic solutions that contribute to your business's long-term success. With our expertise in the pre-sales process, you can optimize your costs and confidently select the most suitable products for your operations.

## Advantages of Evapor Products

**Eco-Conscious Technologies:** Evapor Cooling Systems offers high-efficiency solutions crafted using eco-friendly production methods and materials. With a low carbon footprint, our products have become the preferred choice for businesses committed to environmental responsibility.

**Built for Durability:** Designed to endure demanding conditions, our products provide reliable, long-term performance, adding enduring value to your operations.

**Custom Solutions and Adaptability:** We deliver flexible, tailored solutions across various sectors. Whether for small businesses or large-scale operations, Evapor Cooling Systems offers solutions specifically aligned with your business requirements.

Drawing on years of industry experience, our skilled team at Evapor Cooling Systems continually adapts to technological advancements. Guided by rigorous work in our R&D and P&D departments, we enhance our products to uphold the highest standards, ensuring a seamless and reliable service experience for our clients.



# WORKING PRINCIPLE

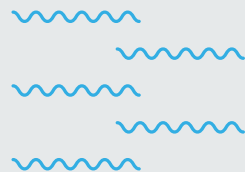
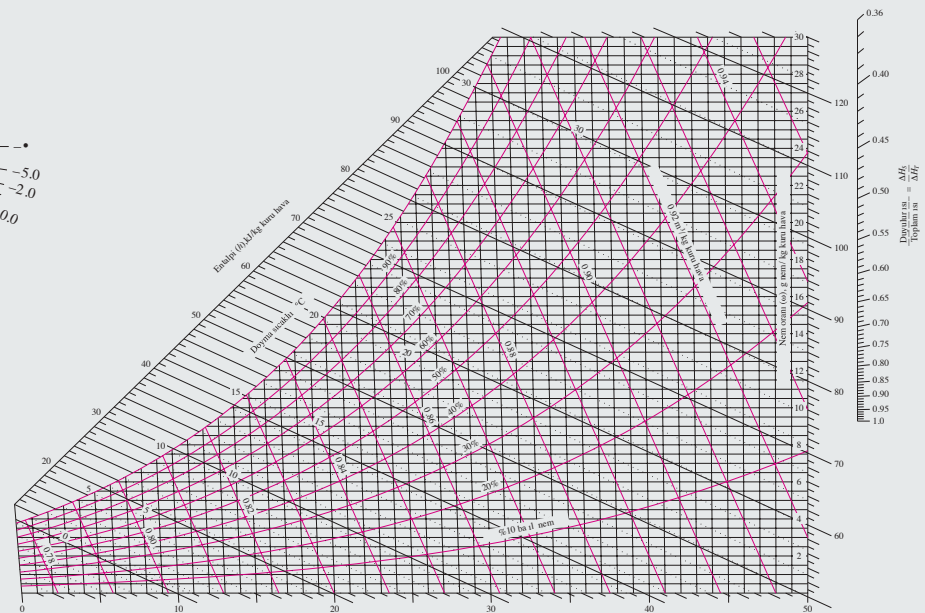
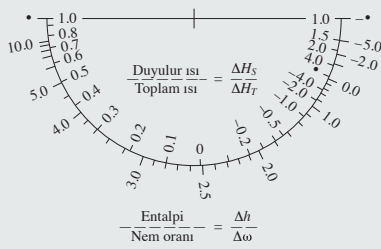
The evaporative cooler utilizes large internal cooling pads that are continually moistened by a water distribution system. A pump circulates water from the reservoir, keeping these pads consistently damp to maximize cooling efficiency.

Hot air drawn into the unit by a fan passes in front of the moistened cooling pads, where it loses heat through evaporation, producing a continuous stream of fresh, cool air. This influx of cool air creates positive air pressure within the environment, which then pushes warmer, stale air out through the exhaust fans.

The system's cooling effectiveness varies based on the ambient temperature and humidity levels from the external environment, as analyzed through a psychrometric chart.

## What is The Psychrometric Chart ?

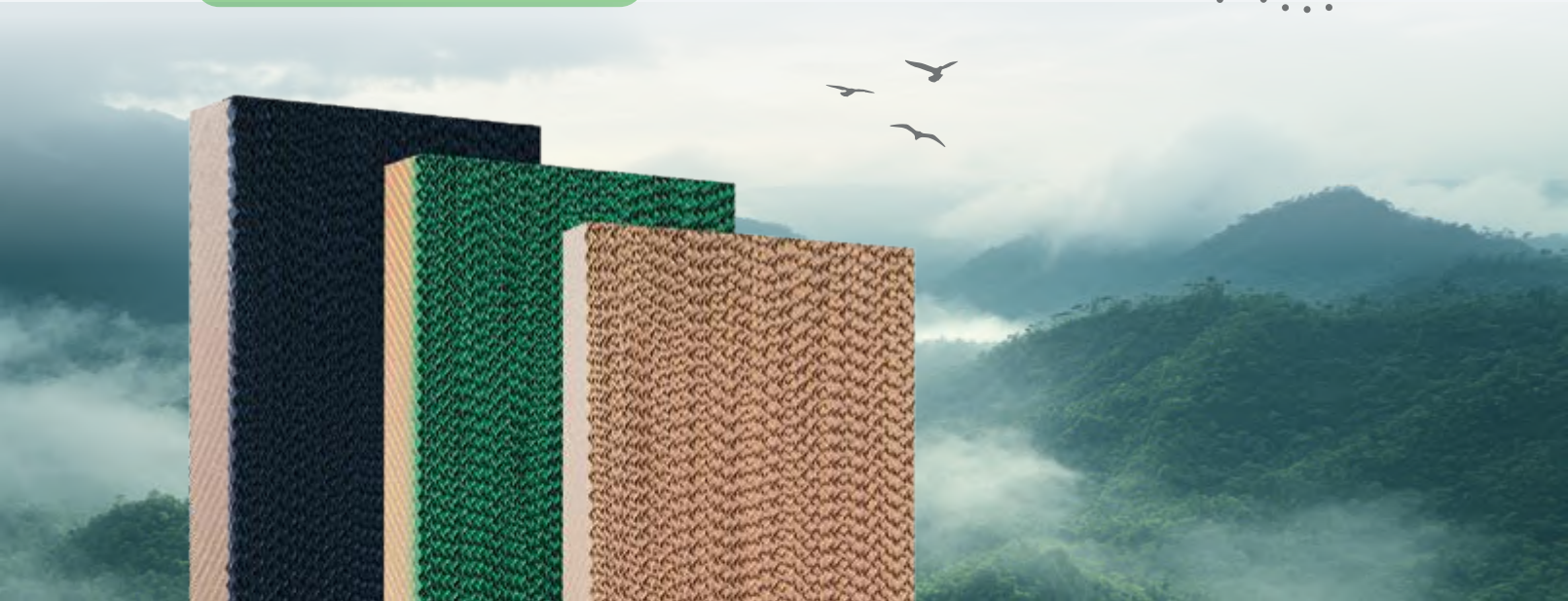
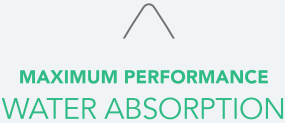
The psychrometric chart is a specialized graphical tool used in engineering and environmental sciences to analyze air properties and the effects of temperature and humidity on air behavior. By plotting variables such as temperature, humidity, and dew point, the chart provides a comprehensive view of air conditions. This tool is essential for assessing air quality, optimizing HVAC systems, and determining the effectiveness of cooling processes, such as those in evaporative cooling systems. It enables precise calculations and predictions to achieve desired indoor climates, making it indispensable in climate control and air treatment applications.



# COOLING PAD

Our Evaporative Cooling Pads are made of virgin corrugated kraft paper, offering high absorption, water resistance, corrosion resistance, and mold prevention. Utilizing spatial cross-linking technology, the pads have a large evaporation area, delivering 80% cooling efficiency. The product naturally absorbs and disperses water quickly, with a single drop spreading in 4-5 seconds. It also provides a long-lasting cooling effect. The absorption height meets international standards

- Greenhouses
- Poultry Farms
- Chiller Pre-Cooling in Air Handling Units



7090 PAD MODEL



5090 PAD MODEL



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# HIGH EFFICIENCY PAD!

## Efficient Cooling Solution:

The Optimal Choice for Ideal Cooling

At the core of evaporative cooling systems lies the Evaporative Cooling Pad, engineered to reduce heat effectively while minimizing energy use. Built from premium materials, these cooling pads offer an eco-friendly, energy-efficient solution, particularly well-suited for large spaces, by harnessing water evaporation to cool the surrounding air.

## Key Features:

**High Performance:** When water contacts the cooling pad, it evaporates with remarkable efficiency, rapidly lowering the air temperature and significantly cooling the environment.

**Easy Installation and Maintenance:** Designed for simplicity, the cooling pad is user-friendly and requires minimal upkeep, ensuring long-lasting efficiency with only occasional adjustments to optimize water and airflow.

**Versatile Applications:** Ideal for large, ventilated spaces, these cooling pads are effective across various industries and settings, including factories, warehouses, greenhouses, poultry farms, and textile workshops.

This solution stands out as a robust and adaptable approach to achieving comfortable, cost-effective climate control in wide environments.

## Technical Specifications:

**Material:** Constructed from a special cellulose-based Kraft paper with excellent absorbency.

**Dimensions:** Customizable to meet specific requirements.

**Evaporative Surface Area:** Expanded surface area maximizes cooling effectiveness.

## Why Choose Evaporative Cooling Pads?

**Energy Efficient:** Offers significantly lower energy usage compared to conventional cooling systems.

**Eco-Friendly:** Operates on natural water evaporation without chemicals or harmful substances, providing a sustainable cooling solution free from F-gases.

**Versatile Integration:** Suitable for various environments and easily adaptable to any air conditioning or ventilation setup.

**Fast Cooling:** Quickly enhances airflow and immediately reduces ambient temperatures.

Evaporative cooling pads offer an ideal solution for those seeking a cost-effective and sustainable approach to cooling, particularly in large-scale spaces. For further details and assistance in finding the optimal cooling solution, please contact us.

*Special pad with no alternative*

Product Description	
Model	7060, 7090, 5090
Color	Brown, Black and Green Coated
Angles	45x45 - 45x15
Raw Material	100% Craft Paper
Water Absorption	High



# EXHAUST FAN

Energy-Efficient EVAPOR Exhaust Fans for Optimal Air Quality

EVAPOR Exhaust Fans are engineered to efficiently expel stale indoor air in poultry farms, livestock facilities, industrial workspaces, workshops, and greenhouses. Designed with a unique impeller shape, these fans deliver high airflow capacity, even under high static pressure conditions, ensuring reliable ventilation performance.

Constructed from coated steel, the outer casing, shutter, and protective wire offer enhanced corrosion resistance, extending the fan's durability in demanding environments. The belt-drive system reduces energy consumption and minimizes noise by operating at lower speeds, creating a comfortable atmosphere for both animals and personnel.



## Technical Specifications

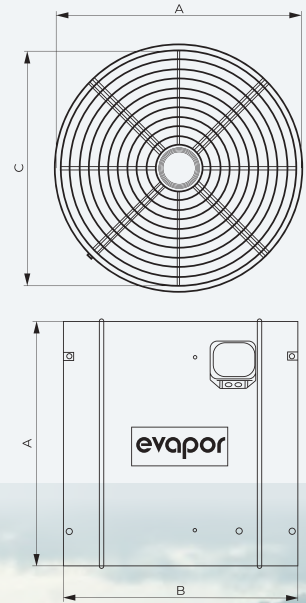
Model	EVP 138	EVP 125	EVP 100	EVP 80
Fan Diameter	1250 mm	1250 mm	900 mm	640 mm
Motor Speed	1440 rpm	1440 rpm	1440 rpm	1440 rpm
Motor Power	1,1 kW	1,1 kW	0,55 kW	0,37 kW
Desibel	65 Desibel	65 Desibel	65 Desibel	65 Desibel
Air Flow	44.500 m <sup>3</sup> /h	44.500 m <sup>3</sup> /h	22.500 m <sup>3</sup> /h	18.000 m <sup>3</sup> /h
Voltage / Hz	380V / 50Hz	380V / 50Hz	380V / 50Hz	380V / 50Hz
Dimensions	1380x1380x400 mm	1380x1380x450 mm	1000x1000x400 mm	800x800x400 mm
Shutter Opening Mechanism	Automatic Hub Push	Two-Poin Wind Push	Two-Poin Wind Push	Two-Poin Wind Push



# CIRCULATION FAN

Our evapor Circulation Fans, which are used to provide adequate air conditions for plants in greenhouses and to distribute air homogeneously in greenhouse areas, are made of galvanized steel sheet and fan blades are made of aluminum.

Fan blades are specially designed to provide you with high efficiency and silence as soon as you turn on the fan. Our Evapor Circulation Fans, which operate with low electricity costs, are produced to increase the efficiency in your greenhouses or poultry farms.



## Technical Specifications

Model	EVP460M/T/HP	EVP600M/T/HP
Voltage / Hz	380V / 50Hz	380V / 50Hz
Power/kW	0,37/0,25	0,37
Air Volume m <sup>3</sup> /h	7400	8900
Fan Speed/rpm	1400	1400
Weight/Kg	17	20

## Technical Dimensions

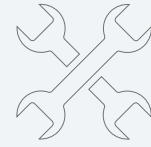
Model	EVP460	EVP460
A	480	610
B	490	490
C	Ø460	Ø590

# EVA-SYS

EVA-SYS Cooling System for Optimal Climate Control

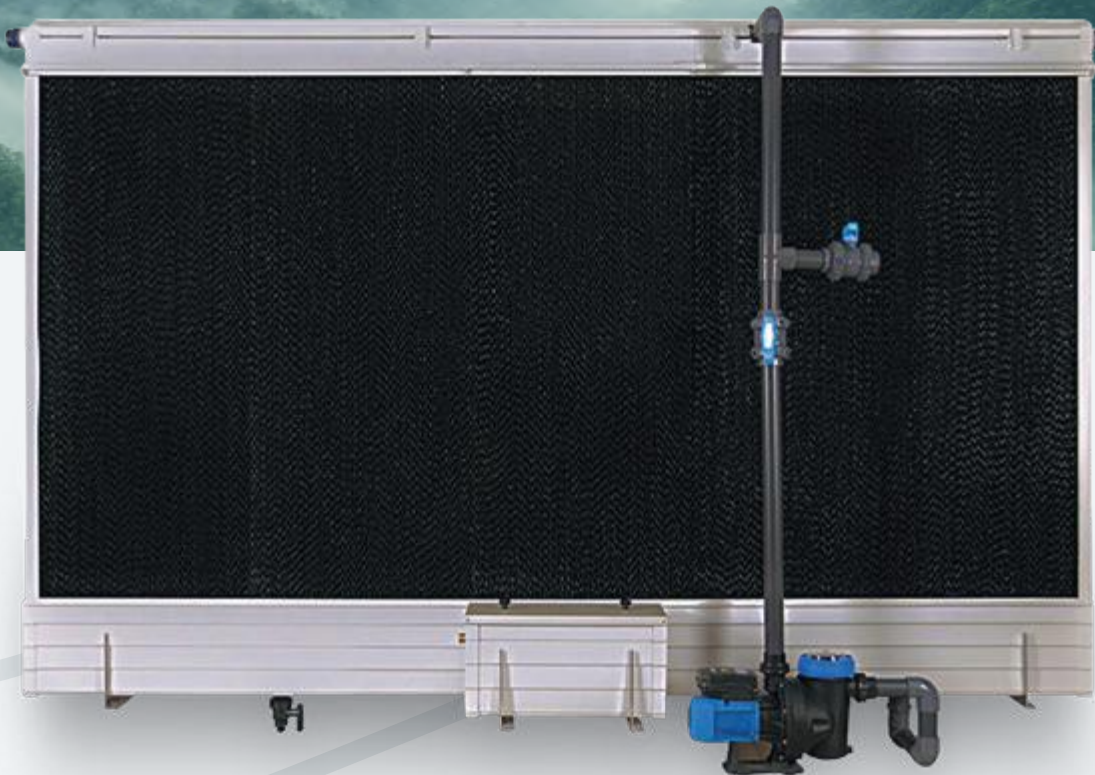
EVA-SYS is a versatile modular frame system designed to enhance cooling efficiency in poultry farms, Animal barns, and greenhouses. By incorporating exhaust fans into the system, EVA-SYS improves airflow and cooling performance, ensuring optimal conditions for your facilities. This cost-effective solution offers high efficiency, reducing energy consumption while maintaining superior cooling capacity.

Our frames are available in PVC tailored to meet your specific requirements. The system is designed for ease of installation, straightforward maintenance, and hassle-free replacement of evaporative cooling pads. Featuring a self-contained water tank, EVA-SYS eliminates the need for an external water source, providing a simple and reliable cooling solution. The system can be customized to accommodate varying pad sizes and lengths, ensuring flexibility for your space.



Easy Installation

Anti UV



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# EVA-SYS

This innovative system offers efficient water management with a range of key features:

1. **Water Reservoir:** The lower gutter acts as a reservoir, eliminating the need for an underground tank.
2. **Automatic Refilling:** The floating system refills the water level automatically when it drops.
3. **Modular Design:** Adjustable in length and height for flexible installation.
4. **Easy Maintenance:** Pads can be easily installed and removed with a special lock system.
5. **Drain Valve:** Includes a valve for convenient cleaning of the gutters.
6. **UV-Resistant PVC:** Built with UV-protected PVC for durability.
7. **Long-Lasting:** More durable than metal-frame systems, with no risk of rust.

This system offers a reliable, low-maintenance solution for water management and cooling.



**END COVER FOR DEFLECTOR**  
Specially designed to ensure tight sealing.



**WATER DISTRIBUTION PIPE**  
helps the water coming out from the water distribution pipe holes to filter and fall onto the Cooling Pads.



**PVC PLASTIC FRAME  
BOTTOM GUTTER (TANK)**  
It is the lower chamber where water is stored. Thanks to the durable and large water chamber, there is no need to add a separate water tank to the system.



**STAINLESS STEEL OR PLASTIC  
BRACKETS**  
These are the support legs that allow the system to be mounted on a wall or panel.



**LOCK SYSTEM**  
At the end of the period, the system allows the pads to be easily removed by opening from the top. The cooling pads can be easily cleaned and put back in place. In this way, the life of the cooling pads is also extended.

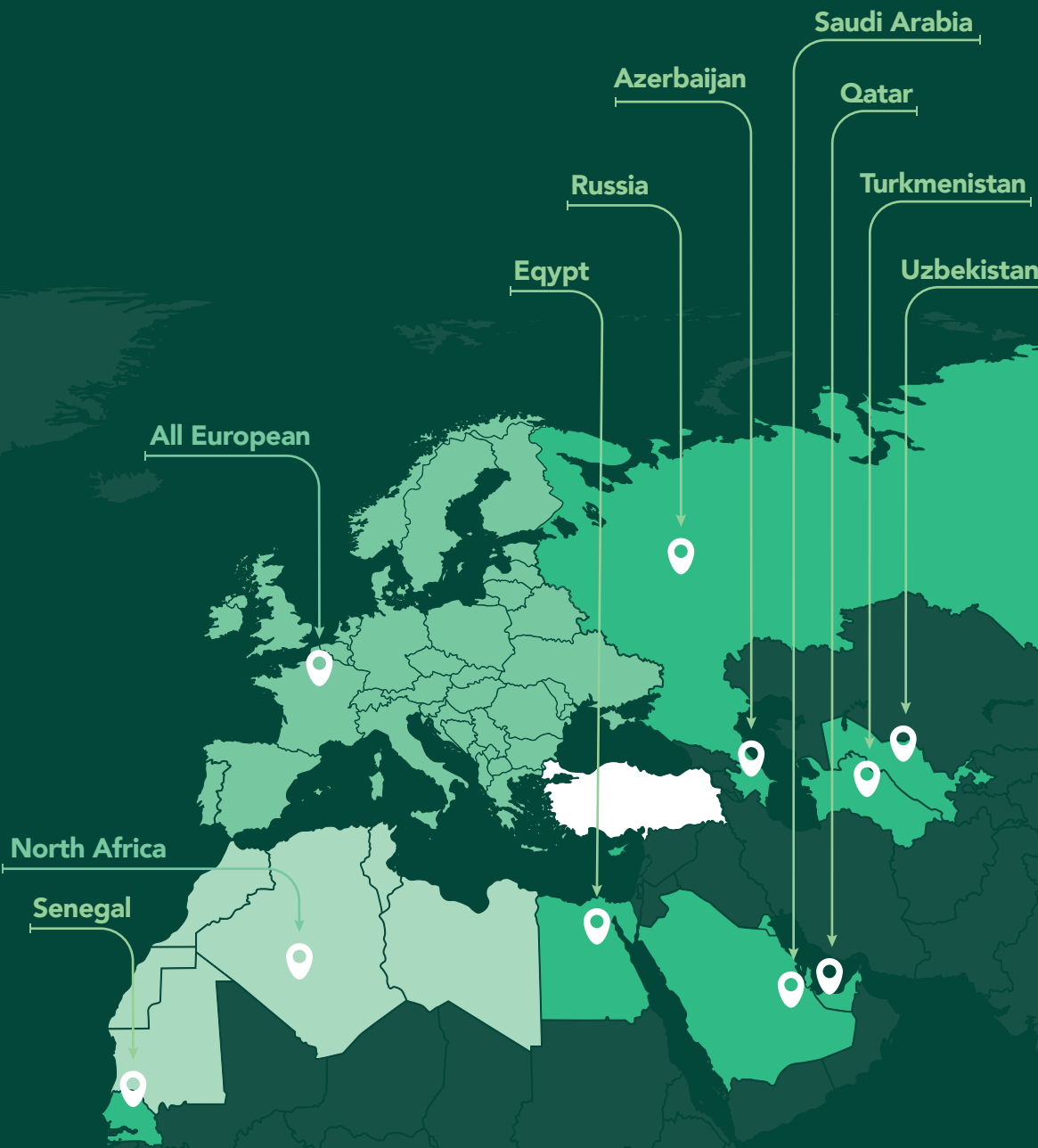


**FLOATING SYSTEM**  
It adds water to the system in case the water stored in the lower chamber decreases. Thus, it prevents unnecessary water waste.





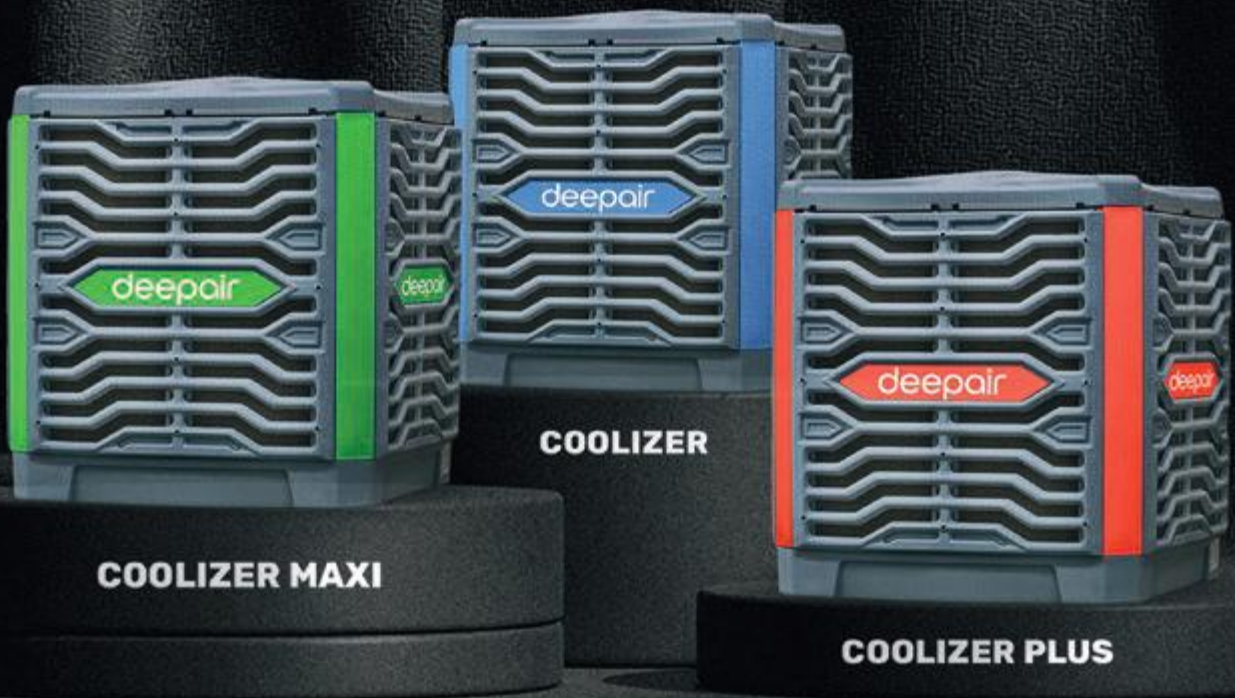
# DELIVERING EXCELLENCE ACROSS THE WORLD!



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★★★★★  
The Global Leader in  
Evaporative Cooling Solutions

Thanks to your support,  
**WE HAVE EARNED  
THE TITLE OF THE LEADER IN  
EVAPORATIVE COOLING**



deepair

"Cooling Leader"

# Evaporative Cooling Systems



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