



OM ECO EXCELLENCE CORP

# YOUR PARTNER

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IN SUSTAINABLE WATER &  
ENERGY SOLUTIONS

## OUR PRODUCTS

ECOCLEAN

E-GLASS EPOXY (EFRP) FANS

CARBON FIBER FANS

EC BLOWERS

TRICKLE FILLS

PULTRUDED FRP COOLING TOWERS

PROCESS MONITORING SYSTEMS

USCHEM-DS



## ABOUT OM ECO EXCELLENCE CORP

OM ECO EXCELLENCE CORP is a leader in innovative water and energy conservation solutions, specializing in cooling towers, evaporative condensers, AHUs, boiler systems, and air washers. With a strong commitment to sustainability, the company strives to achieve zero blow-down in its cooling tower systems, leveraging cutting-edge technologies and expert environmental management services.

## OUR EXPERTISE

### GAURANTEED WATER SAVING SOLUTIONS

Our guaranteed water-saving solution, ECOCLEAN, is a single, eco-friendly, non-toxic, and biodegradable product that is FDA-certified. ECOCLEAN is designed for use in cooling towers, boilers, chillers, and all types of water jackets. In cooling tower applications, we guarantee a minimum of 90% water savings by reducing daily water loss through blowdown or bleed-off. This makes ECOCLEAN an ideal choice for environmentally-conscious businesses aiming to cut water usage and operational costs.

### ENERGY SAVING SOLUTIONS

We specialize in energy-efficient retrofits and upgrades for various cooling systems:

- **High-Efficiency E-Glass Epoxy (EFRP) Fans:** Designed for durability and efficiency, our E-glass epoxy (EFRP) fans have a lifespan of over 10 years. These fans replace traditional aluminum, GRP, and FRP options for cooling towers, HVAC air washers, humidifiers, exhaust systems, and more. They provide guaranteed energy savings of 20-45% and increase airflow by 5-10%.
- **Carbon Fiber Fans:** Our high-efficiency carbon fiber fans provide 25%-45% energy savings and a lifespan of over 20 years. Lightweight yet durable, they deliver optimal performance, making them a smart, energy-saving choice for any space.
- **EC Blowers:** Our electronically commutated (EC) motors and blowers deliver exceptional efficiency. By retrofitting EC blowers in conventional and plug-fan AHUs and air washers, we guarantee 40-60% power savings along with a 5-10% increase in CFM.
- **Energy-Efficient Cooling Towers:** We provide Encon high-energy efficient pultruded cooling towers and packaged cooling towers, specifically designed to optimize performance and reduce energy costs.
- **Trickle Fills:** Our energy-efficient trickle fills are designed for cooling towers, ensuring maximum energy savings and enhanced operational efficiency.



## PROCESS MONITORING SYSTEMS

Our advanced Process Monitoring Systems enable real-time monitoring and improved operational efficiency, ensuring optimal system performance and proactive maintenance.

## EXPERTISE & CLIENTELE

OM ECO EXCELLENCE CORP has a strong presence across multiple industries in India, serving over 100 major Fast-Moving Consumer Goods (FMCG) companies and other global enterprises. Our expertise includes:

- COOLING TOWERS
- CHILLERS
- EVAPORATIVE CONDENSER
- BOILERS
- ALL TYPES OF HOT WATER AND COOL WATER JACKETS AND SYSTEMS

## INDUSTRY IMPACT

By enhancing the efficiency of industrial processes and minimizing waste water, OM ECO EXCELLENCE CORP plays a crucial role in fostering environmental sustainability. Our innovative technologies empower industries to achieve substantial reductions in water and energy consumption, aligning with global efforts in environmental conservation and resource management.





## PRODUCT OVERVIEW

### 1. ECOCLEAN (GUARANTEED WATER SAVING SOLUTION)

#### Product Details:

ECOCLEAN is an FDA-certified, eco-friendly, biodegradable solution designed to reduce water consumption in cooling towers, boilers, chillers, and water jackets. It is a non-toxic, single product designed to offer significant water savings.

#### Applications:

Cooling Towers  
Boilers  
Chillers  
Water Jackets

#### Benefits:

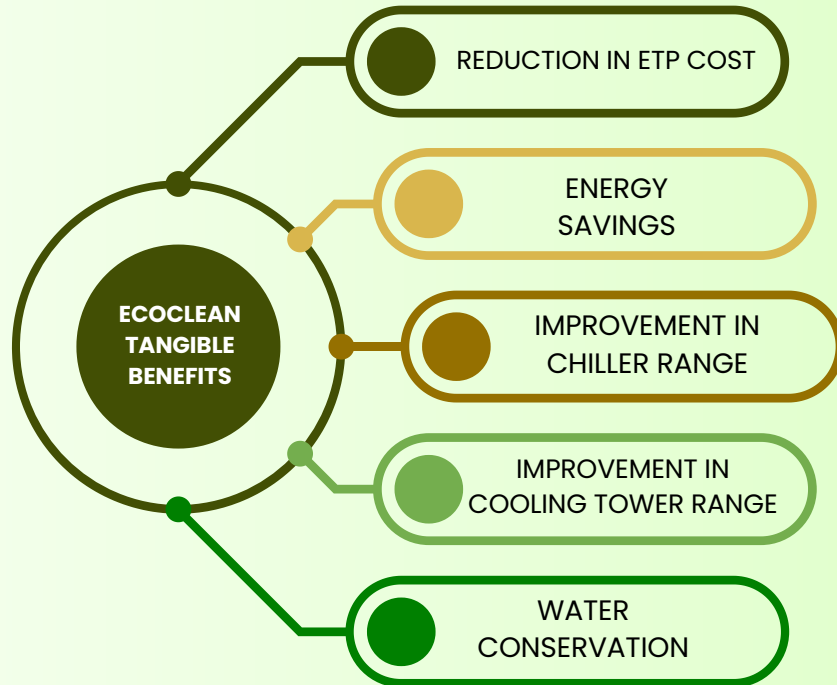
ECOCLEAN reduces water loss from blowdown by 90%, cutting water use and costs. It is non-toxic, eco-friendly, and safe for both workers and the environment, making it a sustainable choice for industries.

#### Working:

ECOCLEAN works as an all-in-one solution, preventing scale, bacteria, algae, fungi, and corrosion. It keeps systems clean, improves efficiency, and reduces maintenance needs.

## COMPARISON

CONVENTIONAL CHEMICALS	ECOCLEAN
<ul style="list-style-type: none"><li>• Acid/alkali-based, non-eco-friendly</li><li>• Requires multiple chemicals</li><li>• Corrosive to metals</li><li>• Dissolves salts but leaves deposits</li><li>• Fails to inhibit or remove scaling</li><li>• Ineffective against microbes</li></ul>	<ul style="list-style-type: none"><li>• Herbal, eco-friendly liquid</li><li>• Single solution for the system</li><li>• Non-corrosive</li><li>• Removes metal salts as insoluble colloids</li><li>• Prevents scaling and removes old deposits</li><li>• Eliminates microbes</li></ul>



## 2.GAURANTEED HIGH ENERGY-EFFICIENT E-GLASS EPOXY (EFRP) FANS

### Product Details:

ENCON's high-energy efficient E-Glass Epoxy (EFRP) FRP Fans are designed for diverse industrial applications, replacing traditional aluminum, GRP, and standard FRP fans with a more sustainable and energy-saving option. These fans guarantee significant power savings, increased airflow, and superior durability, with a lifespan of over 10 years.

Material: Lightweight E-Glass Epoxy offers enhanced strength, corrosion resistance, and extended operational lifespan.

Energy Savings: Reduces power consumption by 20-45%.

Airflow: Improves airflow by 5-10% with advanced aerodynamic design.

### Applications:

- Cooling Towers
- Mines & Ventilation
- Air-Cooled Condensers
- Radiator Engines
- Humidifiers
- Dryers/Kiln Shells
- Air Washers
- HVAC Systems
- Withering Troughs
- Man Coolers
- Exhaust Systems
- Other Industrial Ventilation Applications





**Working:**

Engineered for energy efficiency, these EFRP fans provide a lightweight, corrosion-resistant solution that reduces power consumption by up to 45% while increasing airflow by up to 10%. Their durable construction ensures reliable performance, making them ideal for demanding industrial cooling and ventilation environments.

**3. CARBON FIBER FANS****Product Details:**

Carbon Fiber Fans are lightweight, high-strength, and long-lasting fans that offer superior energy savings. With a lifespan of over 20 years, they are designed for durability and optimal performance.

**Applications:**

Cooling Towers

HVAC Systems

Industrial Ventilation Applications

**Working:**

Carbon fiber construction provides the perfect balance of lightweight design and high strength. These fans operate with energy efficiency, saving up to 45% in power consumption, while improving airflow and reducing the strain on the cooling system. The material also ensures a longer operational life compared to traditional metal or fiberglass fans.



#### 4. ELECTRONICALLY COMMUTATED & BLOWERS (EC-BLOWER)

##### Introduction:

We provide ECS retrofitting for conventional and plug-fan air handling units, ensuring 40%-60% power savings.

##### Key Features:

ECS retrofitting replaces:

- Blowers
- VFDs
- Belts & Pulleys
- Starters (DOL/Star Delta)
- Electrical Panels
- Capacitor Banks
- Harmonic Filters

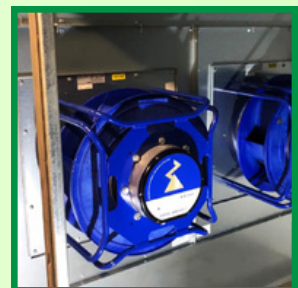
##### Working:

The EC-motors adjust power consumption based on demand, saving 40%-60% energy. They also enhance air handling capacity (CFM) by 5-10%, improving air quality and reducing costs.

##### Applications

##### Applicable in:

- Air Supply Units
- Air Washers
- HVAC AHUs
- Ventilation Units
- Paint Booths
- Cold Storages
- Comfort & Precision Air Handling



**BLOWER SECTION UPGRADE**

#### 5. TRICKLE FILLS

##### Product Details:

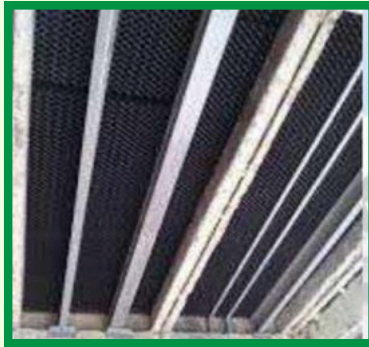
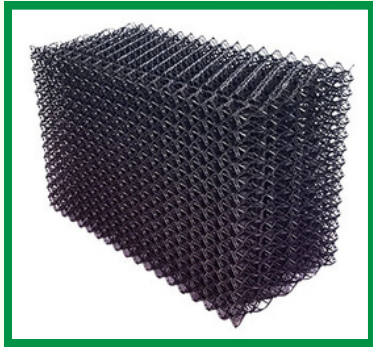
trickle fills are constructed from polypropylene, designed for high-efficiency cooling tower applications. These fills feature a thicker plastic structure (1.5-2mm), which extends their operational life and improves their performance.

##### Applications:

Cooling Towers (especially in industrial and commercial setups).  
Applications where high particle concentration in water is a concern.

##### Working:

The trickle fills maximize heat exchange efficiency by allowing water to flow evenly over a large surface area, improving the cooling tower's overall efficiency. These fills reduce drop pressure, enhance water distribution, and require minimal maintenance. The modular design simplifies installation and reduces operational costs.



## 6. ENERGY-EFFICIENT PULTRUDED FRP COOLING TOWERS

### Product Details:

Pultruded FRP Cooling Towers are designed for high corrosion resistance, strength, and a long lifespan. These towers are maintenance-free and are constructed to be lightweight, thermally insulated, and non-conductive.

### Applications:

Industrial cooling applications, especially where corrosion resistance is critical. Power plants, chemical industries, HVAC systems, and large-scale cooling processes.

### Working:

The cooling towers are designed to optimize thermal efficiency, utilizing pultruded FRP materials which provide superior structural integrity. They are easy to install, low-maintenance, and are capable of handling high thermal loads, ensuring long-term durability without the need for frequent repairs.





## USCHEM-DS – DESCALING SOLUTION FOR INDUSTRIAL SYSTEMS

### Introduction:

USCHEM-DS is a powerful descaling solution designed to remove scale deposits from evaporator condensers, boilers, cooling towers, piping systems, and other industrial equipment. It is an essential product for tackling water-caused scaling problems, which are common across small and large-scale industries. The product is recommended for use before starting regular antiscalant treatment to enhance system performance.

### Contents:

USCHEM-DS contains a blend of effective de-scaling agents combined with specially formulated corrosion inhibitors, ensuring both scale removal and protection against corrosion.

### Advantages:

- Increases heat transfer efficiency and water circulation by removing scale build-up from pipes and equipment.
- Prevents breakages and leakages in pipes, reducing the risk of accidents.
- Avoids unplanned shutdowns, improving overall plant uptime and profitability.

### USCHEM-DS

Our high-grade, heavy-duty descaler effectively removes scale buildup from MS and SS systems, including boilers, cooling towers, pipelines, and evaporator condensers, ensuring optimal performance and extended equipment lifespan.

**BEFORE**



**AFTER**



**TRANSFORMING PERFORMANCE**



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