



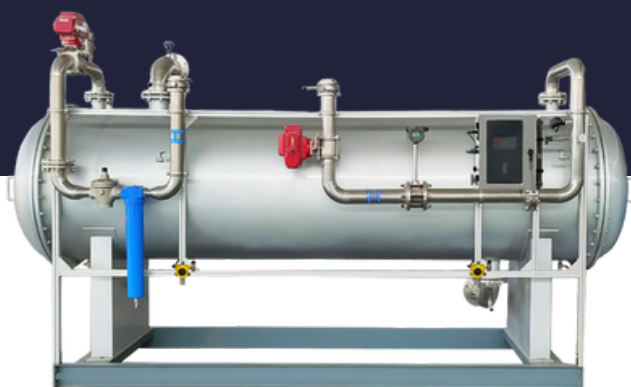
COOLING TOWER WATER TREATMENT

ScaleFree | Bio-Safe | Eco-FriendlyCooling

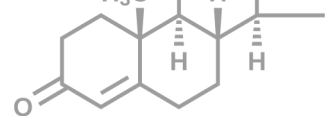
INTRODUCTION

Cooling towers are essential for HVAC systems, power plants, and industrial facilities, but they face persistent challenges: scale build up, biofilm formation, algae growth, and corrosion. Traditional chemical treatments involve chlorine, biocides, and anti scalants expensive, hazardous to handle, and environmentally damaging.

Croissance's Ozone Cooling Tower Systems provide a clean, chemical-free solution. By harnessing ozone (O_3), our systems control microbiological growth, prevent scaling, and reduce corrosion—delivering safe, efficient, and sustainable cooling water management.



How It Works?



01 Ozone Generation

Oxygen is converted into ozone using high-efficiency generators

02 Injection

Ozone gas is dissolved into cooling water via venturi injectors

03 Disinfection & Oxidation

Ozone destroys bacteria, fungi, and biofilm while oxidizing organic matter

04 Scale & Corrosion Control

Ozone stabilizes cooling water chemistry, reducing the need for anti-scalants

Benefits at a Glance



Powerful Microbial Control

Eliminates Legionella, slime, and biofilms



Scale & Corrosion Prevention

Oxidizes deposits and improves heat exchange efficiency



Reduced Chemicals

Cuts or eliminates chlorine, acids, and other chemical biocides



Lower Operating Costs

Reduced blowdown, water savings, and extended equipment life



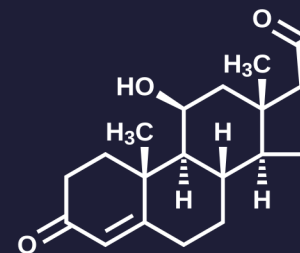
Environmentally Friendly

No toxic discharge; ozone decomposes into oxygen



Safe & Reliable

Automated dosing and monitoring for consistent water quality



Applications



HVAC Cooling Towers

Office complexes, hotels, airports, hospitals



Industrial Cooling Systems

Power plants, steel mills, chemical and petrochemical industries



Manufacturing Facilities

Electronics, textiles, automotive, and food processing plants



Technical Specifications

(Indicative Range – customizable)

01

Residual Ozone

0.1–0.3 mg/L in cooling water circulation

02

Reduction in Chemicals

80–100% reduction in chlorine/biocides

03

Water Savings

Blowdown reduction by up to 50%

04

Operating Costs

Lower than chlorine due to reduced chemical, labor, and maintenance needs

05

System Components

- Ozone generator (Oxipure Elight Series based for industrial efficient)
- Venturi injector and contact tank
- Online ORP/ozone sensors and PLC-based control
- Degassing/destruct unit for safe ozone management

Safety & Operation Guidelines

01

System is fully automated—requires minimal operator intervention

02

Ozone concentration and ORP levels monitored continuously

03

Excess ozone safely destroyed before water recirculation

04

Designed to integrate with existing cooling tower systems



Why Choose Cooling Tower Solutions?

01

Legionella Control

Recognized as one of the most effective technologies against Legionella outbreaks

02

Cost-Efficient

Savings from reduced water, chemicals, and downtime

03

Sustainable

Eliminates hazardous chemical storage and handling

04

Custom-Engineered

Tailored to tower size, water chemistry, and industrial load

05

Expert Support

From design to installation and long-term operation

06

Custom-Engineered

Tailored to tower size, water chemistry, and industrial load

For Cooling Tower Water Treatment with Ozone Technology, the System needs:

01

Medium-to-large ozone generators
(depending on tower size)

02

Monitoring & safety equipment
(sensors + destructors)



Recommended Products

(as per requirements we suggest)

01 CC Series

Robust, industrial ozone generators ideal for cooling water applications

02 Dissolved Ozone Sensors

Compact units for small rooms, clinics, and offices

03 CC Series Ozone Generators

High-capacity generators for large-scale industrial cooling towers

04 Ozone Mixing Systems

Ensures efficient gas-liquid mixing for maximum disinfection

Conclusion

With Cooling TowerOzone Systems, Croissance helps industries achieve safer, cleaner, and more efficient cooling operations. Ozone eliminates the health and environmental risks of chemicals, lowers costs, and extends equipment life—making it the smartest and most sustainable cooling water treatment technology available today

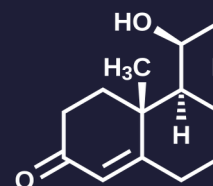




Your Next Step



Experience the future of safe, sustainable sterilisation.



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