CROISSANCE CORPORATION
Air, Water & Innovation...

OXIPURE WATER TREATMENT SOLUTIONS

Safe | Eco-Friendly | Residue-Free

INTRODUCTION

For over 50 years, ozone(O_3) has been the gold standard in bottled water and drinking water treatment. Known as “activated oxygen,” ozone is one of the most powerful and eco-friendly disinfectants available. It ensures compliance with stringent micro biological standards by eliminating bacteria, viruses, fungi, protozoa, and even chemical pollutants—without leaving harmful residues.

Croissance’s Water Treatment Systems harness ozone’s natural power to deliver safe, chemical-free, and efficient purification, helping the bottled water industry and municipal facilities meet global health and regulatory standards.

How It Works?

01 Ozone Generation

High-purity oxygen is converted into ozone using a corona discharge process

02 Ozone Injection

Ozone gas is dissolved into water via venturi injectors or static mixers

03 Self-Decomposition

After treatment, ozone naturally reverts to oxygen, leaving water clean, fresh, and residue-free

04 Contact Time

Water is held briefly in contact tanks, allowing ozone to react fully with microorganisms and pollutants

Benefits at a Glance

Broad-Spectrum Protection

Eliminates bacteria, viruses, protozoa, and fungi

Residue Free & Safe

Breaks down into oxygen, avoiding harmful DBPs (Disinfection By Products) like THMs and HAAs

Improved Taste & Odor

Removes unpleasant tastes, odors, and chlorine-like aftertastes

Extended Shelf Life

Prevents microbial regrowth in bottled water

Energy & Cost Efficiency

Replaces high-temp rinses and reduces chemical handling/storage

Eco-Friendly

Cuts chemical usage, packaging waste, and environmental footprint

Applications

Bottled Water Industry

- Disinfects source water before bottling.
- Sterilizes bottles, caps, and filling lines.
- Prevents recontamination during production.
- Enhances taste and extends shelf life.

Municipal & Drinking Water

- Safe alternative to chlorine, eliminating harmful by-products. Effective
- against chlorine-resistant pathogens (e.g., Cryptosporidium).
- Removes iron, manganese, sulfur, and other inorganic impurities.
- Ensures compliance with EPA, WHO, and FDA drinking water standards

Technical Notes

(Indicative Range – customizable)

01

Dosing Concentration

0.2–0.5 mg/L for drinking water; higher for contaminated sources

02

Contact Time

Typically 3–10 minutes depending on microbial load

03

Disinfection Cost

As low as $0.03 per m³ treated water

04

System Components

- High-efficiency ozone generator (air-fed or oxygen-fed)
- Venturi injector/static mixer for gas-liquid contact Online ozone
- sensors and monitoring system Recirculation pumps and
- contact tank

05

Compliance

- U.S. FDA-approved for bottled water treatment
- EPA-approved disinfectant under National Primary
- Drinking Water Regulations
- Meets WHO drinking water guidelines

Why Choose Oxipure Water Treatment?

- Proven Technology : Trustedinbottled waterfor 50+ years
- Regulatory Compliance : Aligned with EPA, WHO, and FDA standards
- Cost-Effective : Lower OPEX than chemical disinfectants
- Sustainable : No chemical storage, transport, or disposal issues
- Engineering Expertise : Full technical support, from system sizing to IQ/OQ/PQ validation
- Custom Solutions : Designed to match plant capacity and water quality needs.

Safety & Operation Guidelines

01 Ozone dosing must be precisely monitored to ensure safety and efficacy

02 Maintain 0.2–0.5 mg/L ozone residual in bottled water to prevent recontamination

03 Ensure proper degassing and ventilation before bottling

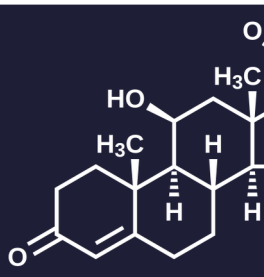
04 Trained staff and automated monitoring reduce risks and ensure compliance

Conclusion

With Water Treatment Solutions, Croissance brings the power of ozone to ensure safe, high-quality, and eco-friendly water purification. Whether for bottled water plants or municipal drinking water facilities, ozone provides a future-ready alternative to chemical disinfection— safeguarding both consumers and the environment.

Your Next Step

Experience the future of safe, sustainable sterilisation.



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