

## Pure water deserves a pure process.

Ozone offers a natural, chemical-free solution that ensures bottled water is safe, fresh, and environmentally responsible — from purification to final packaging.

### Our Story: Ozone Industries Ltd

Ozone Industries is a leading provider of ozone generator solutions, helping commercial and industrial businesses control micro-organisms in both air and water.

As a UK-based manufacturer, we specialize in ozone generators for biocidal applications. We are proud to be fully compliant with HSE Biocidal Products regulations and share ownership of a comprehensive ozone dossier, ensuring safety, reliability, and regulatory excellence across all our products.



### Pure, Safe, and Long-Lasting

Ozone is one of the most effective and widely used methods in bottled water production. It ensures that the water, bottles, and caps are completely sanitized before filling. By dissolving a small amount of ozone into the water during final bottling, manufacturers achieve exceptional purity, a fresh taste, and a shelf life of up to **two years**.

In addition to disinfection, ozone acts as a natural “polishing” agent — removing unwanted tastes and odours that can occur naturally in some spring waters.

### Balancing Safety and Quality

Maintaining the right ozone concentration is crucial. The process must deliver complete sanitation while avoiding the formation of **bromate**, a by-product that can occur when naturally present bromide reacts with ozone. Careful control of ozone levels and contact time ensures product safety, consistency, and compliance with water quality standards.

## Factors Affecting Ozone Concentration

To maintain optimal ozone dosing during bottling, several key factors must be monitored and controlled:

### Water Temperature:

Ozone is more stable in cooler water. Seasonal and daily temperature changes can affect its concentration.

### Water Flow Rate:

Fluctuations in pump speed, voltage, and water pressure can influence how consistently ozone is mixed with the water.

### Ozone Generator Output:

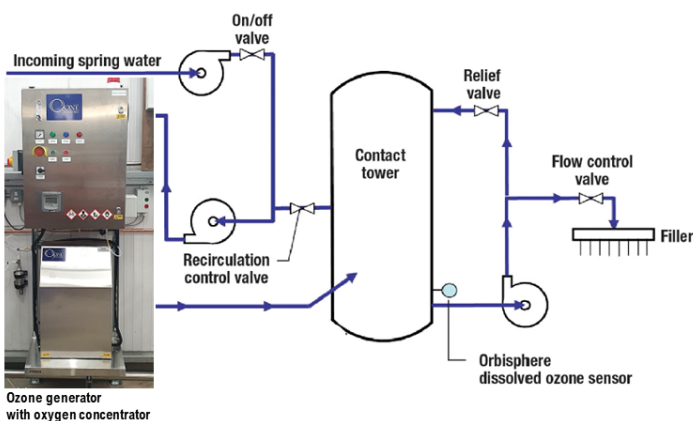
The performance of the ozone generator depends on electrical power, air quality, and temperature. Variations in these conditions affect how much ozone is produced.

### Mass Transfer Efficiency:

Venturi injectors dissolve ozone into the water with about 90% efficiency. Any imbalance in pressure, suction, or gas flow can reduce the amount of ozone that fully dissolves, impacting sanitation effectiveness.

## Safe and Sustainable Operation

Modern bottling systems use catalytic destruct units to safely convert any undissolved ozone back into oxygen before releasing it into the atmosphere — ensuring both safety and environmental responsibility.



**Ozone technology continues to play a vital role in delivering pure, great-tasting, and long-lasting bottled water — naturally and efficiently.**

**Trusted by Industry,** From ensuring pure, safe bottled water to protecting air and water in commercial and industrial applications, **Ozone Industries** is at the forefront of ozone technology

With decades of expertise, regulatory compliance, and a commitment to quality, we deliver solutions that are **effective, reliable, and sustainable.**