

Water Treatment Ozone Generator Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Water Treatment Ozone Generator Market reached USD 101.1 million in 2024 and is projected to grow at a CAGR of 7.7% between 2025 and 2034. Rising concerns over waterborne diseases and increasing demand for advanced disinfection solutions are major factors fueling market expansion. Ozone generators play a critical role in removing bacteria, viruses, and protozoan cysts from municipal and industrial water sources. With growing environmental awareness, industries and municipalities are shifting towards sustainable water treatment practices, driving the adoption of ozone generators as an eco-friendly alternative to traditional chemical disinfectants.

Regulatory frameworks worldwide are also pushing for higher water quality standards, prompting utilities and industries to invest in advanced purification technologies. The need for cost-effective, highly efficient ozone disinfection systems has escalated, particularly in response to global water scarcity and contamination issues. Moreover, technological advancements are streamlining ozone generation processes, making them more energy-efficient and viable for a broad range of applications. Increasing industrialization, coupled with stringent wastewater treatment requirements, is further boosting the demand for ozone generators across multiple sectors.

The ozone generator market is witnessing growing interest in various technological advancements. In 2024, the industry was valued at USD 101.1 million, and among the available technologies, the corona discharge segment is gaining significant traction. By 2034, this segment is expected to reach USD 75.1 million due to its superior ozone production efficiency, particularly in large-scale water treatment systems. Corona discharge technology stands out for its ability to generate high ozone output while maintaining cost-effectiveness, making it a preferred choice for applications ranging from small-scale residential systems to large industrial and commercial water treatment facilities. The increasing focus on operational efficiency and reduced maintenance costs

has led industries to favor corona discharge-based ozone generators over conventional methods.

In terms of application, the industrial water treatment segment held a 46.4% share in 2024. The demand for highly effective oxidation and disinfection methods beyond conventional chlorine treatment is driving the adoption of ozone generators in municipal and industrial water treatment facilities. Ozone technology offers enhanced pathogen removal and oxidation efficiency, making it indispensable for industries such as pharmaceuticals, food and beverage, and chemical processing, where high water purity standards are required. As water treatment plants globally strive to adopt cleaner and more effective purification methods, the use of ozone generators in municipal and industrial settings is set to rise.

North America Water Treatment Ozone Generator Market accounted for a 31.8% share in 2024, with the U.S. market alone valued at USD 29.2 million. Stricter regulatory measures, including the Safe Drinking Water Act and the Clean Water Act, are prompting municipalities to integrate ozone generators into their water treatment infrastructure. Aging water treatment systems across the region are undergoing modernization to align with updated safety and efficiency benchmarks, increasing the adoption of ozone-based disinfection solutions. As regulatory bodies continue to enforce higher water quality standards, the demand for ozone generators is expected to remain strong in the coming years.

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