

Aqueous Ozone Cleaning Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application

<https://marketpublishers.com/r/A908F388D442EN.html>

Date: April 2025

Pages: 83

Price: US\$ 3,200.00 (Single User License)

ID: A908F388D442EN

Abstracts

Aqueous Ozone Cleaning Market Summary

Introduction

Aqueous Ozone Cleaning represents an innovative, eco-friendly cleaning technology that utilizes ozonated water—created by infusing ozone (O₃) into water—as a powerful sanitizer, deodorizer, and cleaner. This method leverages ozone's natural oxidative properties to eliminate pathogens, remove odors, and clean surfaces without the need for traditional chemical agents, making it a sustainable alternative in the cleaning industry. Recognized as safe by regulatory bodies, aqueous ozone reverts to oxygen and water after use, leaving no harmful residues, which aligns with growing environmental and health consciousness globally. The market is driven by its applications across commercial, residential, and industrial sectors, offering a versatile solution for disinfecting surfaces, equipment, and environments. A notable development occurred in 2025 when CleanCore Solutions, Inc. acquired Sanzonate Europe, Europe's largest distributor of aqueous ozone products, a strategic move aimed at boosting financial performance and unlocking millions in sales channels. The industry is characterized by its emphasis on sustainability, efficacy against a broad spectrum of microbes (up to 99.999% germ reduction), and adaptability to diverse cleaning needs, positioning it as a disruptive force in the transition away from synthetic chemicals.

Market Size and Growth Forecast

The global Aqueous Ozone Cleaning market is estimated to reach USD 450 million to USD 500 million in 2025, with a projected compound annual growth rate (CAGR) of

12% to 14% through 2030, potentially expanding to USD 850 million to USD 950 million. This robust growth reflects increasing adoption across multiple sectors, driven by environmental regulations, consumer demand for green solutions, and technological advancements in ozone generation.

Regional Analysis

North America: Expected to grow at 11% to 13%, the U.S. leads due to strong demand in commercial and industrial cleaning, bolstered by stringent hygiene standards and sustainability goals. Trends focus on integrating aqueous ozone into facility management and healthcare settings.

Europe: Forecasted at 12% to 14%, Germany, the UK, and France drive adoption with a focus on eco-friendly technologies. Trends emphasize regulatory support for chemical-free cleaning and CleanCore's acquisition enhancing market penetration.

Asia Pacific: Projected at 13% to 15%, China and Japan spearhead growth with rising industrial and residential use. Trends highlight rapid urbanization and increasing awareness of sustainable cleaning practices.

South America: Anticipated at 10% to 12%, Brazil emerges as a key market with growing commercial applications. Trends favor cost-effective, scalable solutions amid improving infrastructure.

Middle East and Africa: Expected at 9% to 11%, the UAE and South Africa lead with gradual uptake. Trends focus on industrial hygiene and water conservation driving adoption.

Application Analysis

Commercial: Projected at 12% to 14%, this segment includes offices, hotels, and healthcare facilities where aqueous ozone ensures high sanitation standards. Trends emphasize replacing chemical disinfectants with on-demand ozone solutions for cost efficiency and safety.

Residential: Expected at 11% to 13%, residential use grows with consumer devices like spray bottles for home cleaning. Trends highlight ease of use, safety around pets and children, and marketing of sustainable living.

Industrial: Forecasted at 13% to 15%, industrial applications span food processing, manufacturing, and warehousing. Trends focus on large-scale systems for equipment sanitation and compliance with stringent regulatory standards.

Key Market Players

Tennant Company: A U.S.-based leader, Tennant develops advanced cleaning technologies, including aqueous ozone systems for commercial and industrial use.

Tersano Inc.: A Canadian innovator, Tersano specializes in stabilized aqueous ozone solutions, offering devices for both residential and commercial cleaning.

Enozo Technologies Inc.: A U.S. firm, Enozo focuses on portable aqueous ozone devices, targeting residential and small-scale commercial applications.

O3 Waterworks: A U.S. company, O3 Waterworks provides ozone-based cleaning solutions with a focus on residential and light commercial markets.

CleanCore Solutions: A U.S. entity, CleanCore expands its global footprint through acquisitions like Sanzonate Europe, emphasizing industrial and commercial aqueous ozone systems.

Porter's Five Forces Analysis

Threat of New Entrants: Moderate, as the market's growth potential attracts startups, but high initial R&D costs, technological expertise, and regulatory compliance create barriers. Established players like Tennant benefit from brand recognition and economies of scale.

Threat of Substitutes: Moderate-to-high, with traditional chemical cleaners and alternative disinfectants like UV light competing. However, aqueous ozone's eco-friendly profile and efficacy provide a competitive edge, reducing substitution risks over time.

Bargaining Power of Buyers: Moderate, as buyers in commercial and industrial sectors demand cost-effective, proven solutions, but the limited number of scalable aqueous ozone providers restricts their leverage. Residential consumers have more options, increasing pressure on pricing.

Bargaining Power of Suppliers: Low-to-moderate, with suppliers of ozone generation components (e.g., electrodes) widely available, though specialized inputs for stabilization technology give some suppliers leverage. Global supply chains mitigate this power.

Competitive Rivalry: High, driven by innovation races among Tennant, Tersano, and CleanCore to capture market share. Differentiation through product efficacy, scalability, and application versatility intensifies competition, particularly in commercial and industrial segments.

Market Opportunities and Challenges

Opportunities

Sustainability Demand: Growing global emphasis on reducing chemical use and waste aligns with aqueous ozone's residue-free profile, driving adoption across residential, commercial, and industrial applications.

Regulatory Support: Stricter environmental and health regulations favor aqueous ozone as a compliant alternative, opening doors in highly regulated sectors like healthcare and food processing.

Technological Advancements: Improvements in stabilization (e.g., Tersano's SAO) and portability enhance efficacy and user convenience, expanding market reach into residential and small business segments.

Strategic Acquisitions: CleanCore's 2025 acquisition of Sanzonate Europe exemplifies opportunities for market expansion, unlocking new sales channels and strengthening global presence, particularly in Europe.

Health Consciousness: Rising awareness of chemical-related health risks boosts demand for safe, effective cleaning solutions, positioning aqueous ozone as a preferred choice in hygiene-sensitive environments.

Challenges

Awareness Gaps: Limited consumer and business understanding of aqueous

ozone's benefits hinders adoption, particularly in residential and emerging markets, requiring significant education efforts.

High Initial Costs: The upfront investment in ozone generation equipment (e.g., industrial systems) can deter smaller buyers, despite long-term savings, posing a barrier to widespread penetration.

Technical Limitations: Ozone's short active lifespan (minutes) requires on-demand generation, complicating logistics for large-scale or remote applications compared to stable chemical alternatives.

Market Fragmentation: A mix of established players and new entrants creates a fragmented landscape, increasing competition and potentially leading to price wars that squeeze margins.

Regulatory Variability: While supportive in some regions, inconsistent global standards for ozone use in cleaning applications could slow market growth, requiring companies to navigate diverse compliance landscapes.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

- 3.1 Research Scope
- 3.2 Research Sources
 - 3.2.1 Data Sources
 - 3.2.2 Assumptions
- 3.3 Research Method
- Chapter Four Market Landscape
- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

- 6.1 Upstream/Suppliers Analysis
- 6.2 Aqueous Ozone Cleaning Analysis
 - 6.2.1 Technology Analysis
 - 6.2.2 Cost Analysis
 - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST AQUEOUS OZONE CLEANING MARKET IN NORTH AMERICA (2020-2030)

8.1 Aqueous Ozone Cleaning Market Size

8.2 Aqueous Ozone Cleaning Market by End Use

8.3 Competition by Players/Suppliers

8.4 Aqueous Ozone Cleaning Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST AQUEOUS OZONE CLEANING MARKET IN SOUTH AMERICA (2020-2030)

9.1 Aqueous Ozone Cleaning Market Size

9.2 Aqueous Ozone Cleaning Market by End Use

9.3 Competition by Players/Suppliers

9.4 Aqueous Ozone Cleaning Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST AQUEOUS OZONE CLEANING MARKET IN ASIA & PACIFIC (2020-2030)

10.1 Aqueous Ozone Cleaning Market Size

10.2 Aqueous Ozone Cleaning Market by End Use

10.3 Competition by Players/Suppliers

10.4 Aqueous Ozone Cleaning Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST AQUEOUS OZONE CLEANING MARKET IN EUROPE (2020-2030)

- 11.1 Aqueous Ozone Cleaning Market Size
- 11.2 Aqueous Ozone Cleaning Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Aqueous Ozone Cleaning Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST AQUEOUS OZONE CLEANING MARKET IN MEA (2020-2030)

- 12.1 Aqueous Ozone Cleaning Market Size
- 12.2 Aqueous Ozone Cleaning Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Aqueous Ozone Cleaning Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL AQUEOUS OZONE CLEANING MARKET (2020-2025)

- 13.1 Aqueous Ozone Cleaning Market Size
- 13.2 Aqueous Ozone Cleaning Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Aqueous Ozone Cleaning Market Size by Type

CHAPTER 14 GLOBAL AQUEOUS OZONE CLEANING MARKET FORECAST (2025-2030)

- 14.1 Aqueous Ozone Cleaning Market Size Forecast
- 14.2 Aqueous Ozone Cleaning Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Aqueous Ozone Cleaning Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Tennant Company
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Aqueous Ozone Cleaning Information
 - 15.1.3 SWOT Analysis of Tennant Company
 - 15.1.4 Tennant Company Aqueous Ozone Cleaning Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Tersano Inc.
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Aqueous Ozone Cleaning Information
 - 15.2.3 SWOT Analysis of Tersano Inc.
 - 15.2.4 Tersano Inc. Aqueous Ozone Cleaning Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Enozo Technologies Inc
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Aqueous Ozone Cleaning Information
 - 15.3.3 SWOT Analysis of Enozo Technologies Inc
 - 15.3.4 Enozo Technologies Inc Aqueous Ozone Cleaning Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 O3 Waterworks
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and Aqueous Ozone Cleaning Information
 - 15.4.3 SWOT Analysis of O3 Waterworks
 - 15.4.4 O3 Waterworks Aqueous Ozone Cleaning Revenue, Gross Margin and Market

Share (2020-2025)

15.5 CleanCore Solutions

15.5.1 Company Profile

15.5.2 Main Business and Aqueous Ozone Cleaning Information

15.5.3 SWOT Analysis of CleanCore Solutions

15.5.4 CleanCore Solutions Aqueous Ozone Cleaning Revenue, Gross Margin and Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms

Table Research Scope of Aqueous Ozone Cleaning Report

Table Data Sources of Aqueous Ozone Cleaning Report

Table Major Assumptions of Aqueous Ozone Cleaning Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Aqueous Ozone Cleaning Picture

Table Aqueous Ozone Cleaning Classification

Table Aqueous Ozone Cleaning Applications

Table Drivers of Aqueous Ozone Cleaning Market

Table Restraints of Aqueous Ozone Cleaning Market

Table Opportunities of Aqueous Ozone Cleaning Market

Table Threats of Aqueous Ozone Cleaning Market

Table Covid-19 Impact For Aqueous Ozone Cleaning Market

Table Raw Materials Suppliers

Table Different Production Methods of Aqueous Ozone Cleaning

Table Cost Structure Analysis of Aqueous Ozone Cleaning

Table Key End Users

Table Latest News of Aqueous Ozone Cleaning Market

Table Merger and Acquisition

Table Planned/Future Project of Aqueous Ozone Cleaning Market

Table Policy of Aqueous Ozone Cleaning Market

Table 2020-2030 North America Aqueous Ozone Cleaning Market Size

Figure 2020-2030 North America Aqueous Ozone Cleaning Market Size and CAGR

Table 2020-2030 North America Aqueous Ozone Cleaning Market Size by Application

Table 2020-2025 North America Aqueous Ozone Cleaning Key Players Revenue

Table 2020-2025 North America Aqueous Ozone Cleaning Key Players Market Share

Table 2020-2030 North America Aqueous Ozone Cleaning Market Size by Type

Table 2020-2030 United States Aqueous Ozone Cleaning Market Size

Table 2020-2030 Canada Aqueous Ozone Cleaning Market Size

Table 2020-2030 Mexico Aqueous Ozone Cleaning Market Size
Table 2020-2030 South America Aqueous Ozone Cleaning Market Size
Figure 2020-2030 South America Aqueous Ozone Cleaning Market Size and CAGR
Table 2020-2030 South America Aqueous Ozone Cleaning Market Size by Application
Table 2020-2025 South America Aqueous Ozone Cleaning Key Players Revenue
Table 2020-2025 South America Aqueous Ozone Cleaning Key Players Market Share
Table 2020-2030 South America Aqueous Ozone Cleaning Market Size by Type
Table 2020-2030 Brazil Aqueous Ozone Cleaning Market Size
Table 2020-2030 Argentina Aqueous Ozone Cleaning Market Size
Table 2020-2030 Chile Aqueous Ozone Cleaning Market Size
Table 2020-2030 Peru Aqueous Ozone Cleaning Market Size
Table 2020-2030 Asia & Pacific Aqueous Ozone Cleaning Market Size
Figure 2020-2030 Asia & Pacific Aqueous Ozone Cleaning Market Size and CAGR
Table 2020-2030 Asia & Pacific Aqueous Ozone Cleaning Market Size by Application
Table 2020-2025 Asia & Pacific Aqueous Ozone Cleaning Key Players Revenue
Table 2020-2025 Asia & Pacific Aqueous Ozone Cleaning Key Players Market Share
Table 2020-2030 Asia & Pacific Aqueous Ozone Cleaning Market Size by Type
Table 2020-2030 China Aqueous Ozone Cleaning Market Size
Table 2020-2030 India Aqueous Ozone Cleaning Market Size
Table 2020-2030 Japan Aqueous Ozone Cleaning Market Size
Table 2020-2030 South Korea Aqueous Ozone Cleaning Market Size
Table 2020-2030 Southeast Asia Aqueous Ozone Cleaning Market Size
Table 2020-2030 Australia Aqueous Ozone Cleaning Market Size
Table 2020-2030 Europe Aqueous Ozone Cleaning Market Size
Figure 2020-2030 Europe Aqueous Ozone Cleaning Market Size and CAGR
Table 2020-2030 Europe Aqueous Ozone Cleaning Market Size by Application
Table 2020-2025 Europe Aqueous Ozone Cleaning Key Players Revenue
Table 2020-2025 Europe Aqueous Ozone Cleaning Key Players Market Share
Table 2020-2030 Europe Aqueous Ozone Cleaning Market Size by Type
Table 2020-2030 Germany Aqueous Ozone Cleaning Market Size
Table 2020-2030 France Aqueous Ozone Cleaning Market Size
Table 2020-2030 United Kingdom Aqueous Ozone Cleaning Market Size
Table 2020-2030 Italy Aqueous Ozone Cleaning Market Size
Table 2020-2030 Spain Aqueous Ozone Cleaning Market Size
Table 2020-2030 Belgium Aqueous Ozone Cleaning Market Size
Table 2020-2030 Netherlands Aqueous Ozone Cleaning Market Size
Table 2020-2030 Austria Aqueous Ozone Cleaning Market Size
Table 2020-2030 Poland Aqueous Ozone Cleaning Market Size
Table 2020-2030 Russia Aqueous Ozone Cleaning Market Size

Table 2020-2030 MEA Aqueous Ozone Cleaning Market Size

Figure 2020-2030 MEA Aqueous Ozone Cleaning Market Size and CAGR

Table 2020-2030 MEA Aqueous Ozone Cleaning Market Size by Application

Table 2020-2025 MEA Aqueous Ozone Cleaning Key Players Revenue

Table 2020-2025 MEA Aqueous Ozone Cleaning Key Players Market Share

Table 2020-2030 MEA Aqueous Ozone Cleaning Market Size by Type

Table 2020-2030 Egypt Aqueous Ozone Cleaning Market Size

Table 2020-2030 Israel Aqueous Ozone Cleaning Market Size

Table 2020-2030 South Africa Aqueous Ozone Cleaning Market Size

Table 2020-2030 Gulf Cooperation Council Countries Aqueous Ozone Cleaning Market Size

Table 2020-2030 Turkey Aqueous Ozone Cleaning Market Size

Table 2020-2025 Global Aqueous Ozone Cleaning Market Size by Region

Table 2020-2025 Global Aqueous Ozone Cleaning Market Size Share by Region

Table 2020-2025 Global Aqueous Ozone Cleaning Market Size by Application

Table 2020-2025 Global Aqueous Ozone Cleaning Market Share by Application

Table 2020-2025 Global Aqueous Ozone Cleaning Key Vendors Revenue

Figure 2020-2025 Global Aqueous Ozone Cleaning Market Size and Growth Rate

Table 2020-2025 Global Aqueous Ozone Cleaning Key Vendors Market Share

Table 2020-2025 Global Aqueous Ozone Cleaning Market Size by Type

Table 2020-2025 Global Aqueous Ozone Cleaning Market Share by Type

Table 2025-2030 Global Aqueous Ozone Cleaning Market Size by Region

Table 2025-2030 Global Aqueous Ozone Cleaning Market Size Share by Region

Table 2025-2030 Global Aqueous Ozone Cleaning Market Size by Application

Table 2025-2030 Global Aqueous Ozone Cleaning Market Share by Application

Table 2025-2030 Global Aqueous Ozone Cleaning Key Vendors Revenue

Figure 2025-2030 Global Aqueous Ozone Cleaning Market Size and Growth Rate

Table 2025-2030 Global Aqueous Ozone Cleaning Key Vendors Market Share

Table 2025-2030 Global Aqueous Ozone Cleaning Market Size by Type

Table 2025-2030 Aqueous Ozone Cleaning Global Market Share by Type

I would like to order

Product name: Aqueous Ozone Cleaning Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application

Product link: <https://marketpublishers.com/r/A908F388D442EN.html>

Price: US\$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A908F388D442EN.html>