

Chlorinator Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Application (Water & Wastewater Treatment, Industrial Process), By Type (Gas Chlorinators, Liquid Chlorinators, Tablets Chlorinators), By End-User (Residential, Commercial, Industrial), By Product Mode (Manual, Automatic), By Region, By Competition, 2020-2030F

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Abstracts

Market Overview

The Chlorinator Market was valued at USD 3.81 Billion in 2024 and is expected to reach USD 5.43 Billion by 2030 with a CAGR of 5.91%. The chlorinator market refers to the global industry involved in the design, manufacturing, distribution, and application of chlorination systems used for water and wastewater treatment across various sectors including municipal, industrial, commercial, and residential. Chlorinators are devices or systems that accurately and safely introduce chlorine or chlorine compounds into water supplies for the purpose of disinfection, odor control, and algae or bacteria elimination. The primary function of these systems is to ensure water safety by neutralizing harmful pathogens and maintaining hygiene standards.

Key Market Drivers

Rising Global Demand for Clean and Safe Drinking Water

The growing global demand for clean and safe drinking water is a primary driver for the

chlorinator market, as governments, municipalities, and water management agencies increasingly prioritize water quality and public health. Rapid urbanization, population growth, and industrialization have placed immense pressure on existing water resources, compelling public authorities and private operators to implement robust water treatment processes. Chlorination remains one of the most effective and widely adopted methods for disinfecting water and eliminating pathogens, viruses, and bacteria that pose risks to human health.

In many developing regions, inadequate infrastructure and the rising prevalence of waterborne diseases have intensified the urgency for safe water solutions, propelling investments in water disinfection systems, particularly chlorinators. Moreover, as climate change impacts freshwater availability and quality, there is a growing emphasis on centralized and decentralized water purification systems that rely on consistent and scalable technologies like chlorination. Rural areas and off-grid communities are increasingly adopting portable and solar-powered chlorinator systems to ensure access to potable water without reliance on complex infrastructure. In urban settings, chlorination is a standard procedure for municipal water treatment plants, and continuous upgrades in chlorination equipment are being implemented to improve efficiency, reduce chemical consumption, and ensure regulatory compliance.

The increasing awareness among consumers about the importance of water quality, particularly following global health events, has led to a shift in expectations regarding water safety standards, further boosting the market for reliable disinfection solutions. Governments across multiple regions are enforcing stricter water quality standards and requiring treatment systems to meet rigorous health and environmental guidelines, reinforcing the role of chlorinators in maintaining compliance. Additionally, advancements in chlorination technologies, such as automated dosing systems, real-time monitoring, and integrated control units, are enabling smarter and more efficient disinfection processes, appealing to both municipal and industrial users.

As sustainability goals gain prominence, chlorinator manufacturers are developing systems that minimize environmental impact through reduced chemical waste and energy-efficient operation. These trends, coupled with increased funding for water infrastructure development under international aid programs and public-private partnerships, are expected to sustain and expand chlorinator adoption. The combination of technological innovation, regulatory pressure, rising health consciousness, and the global push for water security positions chlorinators as a vital component in water treatment strategies, thereby driving robust and sustained market growth worldwide. Over 2 billion people globally lack access to safely managed drinking water services.

Global water demand is expected to increase by over 50% by 2050. Approximately 4 billion people experience severe water scarcity during at least one month each year. The global population relying on contaminated drinking water sources exceeds 1.5 billion. Investments in water purification and treatment technologies are growing at a CAGR of over 7% worldwide. Water-related diseases cause over 3 million deaths annually, highlighting the urgent need for clean water access. Urban water demand is projected to double by 2050 due to population growth.

Key Market Challenges

Stringent Environmental Regulations and Safety Concerns

The Chlorinator Market faces a significant challenge due to increasingly stringent environmental regulations and growing safety concerns related to chlorine handling, storage, and application. Chlorine, while highly effective for disinfection in water treatment and industrial processes, is classified as a hazardous chemical, posing risks of leaks, explosions, and toxic exposure if not handled with precision. As global environmental and occupational safety standards become more rigorous, chlorinator manufacturers and end-users are under pressure to comply with complex regulatory frameworks that govern emission limits, chemical storage protocols, and worker safety measures. These regulations vary by country and region, which makes compliance more difficult for international market participants.

Additionally, the high risk associated with chlorine gas, in particular, has led to a preference shift toward alternative disinfection technologies such as ultraviolet (UV) systems and ozone treatment, which are perceived as safer and more environmentally friendly. This shift impacts market growth and forces chlorinator manufacturers to invest heavily in R&D for safer system designs, automation features, and leak detection mechanisms. Moreover, the cost of regulatory compliance—ranging from upgraded safety infrastructure, enhanced employee training, periodic inspections, and costly liability insurances—adds financial pressure to both manufacturers and end-users, particularly small- to medium-sized water treatment operators who often operate with limited budgets. In industrial settings, companies may also face opposition from local communities and environmental groups concerned about the use of chlorine and its potential long-term ecological effects, especially if accidental releases contaminate air, soil, or water sources.

These dynamics can lead to project delays, increased operational costs, and in some cases, the discontinuation of chlorination systems in favor of alternative solutions. The

complexity is further compounded by the need for technical personnel trained specifically in chlorine system management, creating an additional operational bottleneck in emerging economies. Consequently, while chlorinators remain a critical component in municipal water treatment, pool sanitation, and various industrial applications, the rising tide of regulatory scrutiny and safety obligations poses a substantial challenge to market expansion, particularly in developed economies where environmental governance is becoming increasingly rigorous. To navigate this challenge, stakeholders must strike a delicate balance between maintaining the effectiveness of chlorine-based disinfection and addressing the growing demand for safer, greener, and more compliant solutions in line with evolving global standards.

Key Market Trends

Growing Adoption of Automated and Smart Chlorination Systems

The chlorinator market is undergoing a significant transformation with the rising adoption of automated and smart chlorination systems across municipal, industrial, and commercial water treatment applications. This trend is largely driven by increasing demand for precision dosing, enhanced process control, and operational efficiency. As industries and municipalities face growing pressure to optimize water treatment processes while reducing costs, automated chlorination systems offer real-time monitoring, remote control capabilities, and adaptive dosing based on water quality fluctuations.

These smart systems minimize chemical usage, improve safety by reducing manual handling of chlorine, and lower maintenance requirements. Integration with IoT platforms, SCADA systems, and digital water management tools is further enhancing the appeal of these technologies. With water utilities aiming to modernize legacy infrastructure, demand for intelligent chlorinators equipped with sensors, data analytics, and automated alerts is on the rise. Additionally, industries such as food and beverage, pharmaceuticals, and pulp and paper are increasingly investing in smart disinfection solutions to meet stringent regulatory standards and ensure consistent water quality. The use of advanced PLC-based controls in these chlorinators also allows for better compliance with environmental and health regulations by ensuring precise dosing and reduced risk of under or over-chlorination.

Furthermore, with remote monitoring capabilities, operators can manage multiple sites with minimal physical presence, leading to significant labor cost savings and improved response times in case of anomalies. As climate variability and population growth put

pressure on water resources, the adoption of these advanced systems is expected to become more widespread, enabling real-time optimization of chlorination processes in both urban and rural settings. Overall, the push towards digitalization in water management is driving the evolution of the chlorinator market, positioning automated systems as a standard solution for future-ready water treatment infrastructure globally.

Key Market Players

Evoqua Water Technologies LLC

Prominent GmbH

Grundfos Holding A/S

De Nora Water Technologies, LLC

Lenntech B.V.

Suez Water Technologies & Solutions

Blue-White Industries, Ltd.

Emerson Electric Co.

IDEX Corporation

Ozone Engineers

Report Scope:

In this report, the Global Chlorinator Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Chlorinator Market, By Application:

Water & Wastewater Treatment

Industrial Process

Chlorinator Market, By Type:

Gas Chlorinators

Liquid Chlorinators

Tablets Chlorinators

Chlorinator Market, By End-User:

Residential

Commercial

Industrial

Chlorinator Market, By Product Mode:

Manual

Automatic

Chlorinator Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Chlorinator Market.

Available Customizations:

Global Chlorinator Market report with the given Market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional Market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL CHLORINATOR MARKET OUTLOOK

- 5.1. Market Size & Forecast

- 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Application (Water & Wastewater Treatment, Industrial Process)
 - 5.2.2. By Type (Gas Chlorinators, Liquid Chlorinators, Tablets Chlorinators)
 - 5.2.3. By End-User (Residential, Commercial, Industrial)
 - 5.2.4. By Product Mode (Manual, Automatic)
 - 5.2.5. By Region
- 5.3. By Company (2024)
- 5.4. Market Map

6. NORTH AMERICA CHLORINATOR MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Application
 - 6.2.2. By Type
 - 6.2.3. By End-User
 - 6.2.4. By Product Mode
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Chlorinator Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Application
 - 6.3.1.2.2. By Type
 - 6.3.1.2.3. By End-User
 - 6.3.1.2.4. By Product Mode
 - 6.3.2. Canada Chlorinator Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Application
 - 6.3.2.2.2. By Type
 - 6.3.2.2.3. By End-User
 - 6.3.2.2.4. By Product Mode
 - 6.3.3. Mexico Chlorinator Market Outlook
 - 6.3.3.1. Market Size & Forecast

- 6.3.3.1.1. By Value
- 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Application
 - 6.3.3.2.2. By Type
 - 6.3.3.2.3. By End-User
 - 6.3.3.2.4. By Product Mode

7. EUROPE CHLORINATOR MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Application
 - 7.2.2. By Type
 - 7.2.3. By End-User
 - 7.2.4. By Product Mode
 - 7.2.5. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Chlorinator Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Application
 - 7.3.1.2.2. By Type
 - 7.3.1.2.3. By End-User
 - 7.3.1.2.4. By Product Mode
 - 7.3.2. United Kingdom Chlorinator Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Application
 - 7.3.2.2.2. By Type
 - 7.3.2.2.3. By End-User
 - 7.3.2.2.4. By Product Mode
 - 7.3.3. Italy Chlorinator Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Application

- 7.3.3.2.2. By Type
- 7.3.3.2.3. By End-User
- 7.3.3.2.4. By Product Mode
- 7.3.4. France Chlorinator Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Application
 - 7.3.4.2.2. By Type
 - 7.3.4.2.3. By End-User
 - 7.3.4.2.4. By Product Mode
- 7.3.5. Spain Chlorinator Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Application
 - 7.3.5.2.2. By Type
 - 7.3.5.2.3. By End-User
 - 7.3.5.2.4. By Product Mode

8. ASIA-PACIFIC CHLORINATOR MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Application
 - 8.2.2. By Type
 - 8.2.3. By End-User
 - 8.2.4. By Product Mode
 - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Chlorinator Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Application
 - 8.3.1.2.2. By Type
 - 8.3.1.2.3. By End-User
 - 8.3.1.2.4. By Product Mode

8.3.2. India Chlorinator Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Application

8.3.2.2.2. By Type

8.3.2.2.3. By End-User

8.3.2.2.4. By Product Mode

8.3.3. Japan Chlorinator Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Application

8.3.3.2.2. By Type

8.3.3.2.3. By End-User

8.3.3.2.4. By Product Mode

8.3.4. South Korea Chlorinator Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Application

8.3.4.2.2. By Type

8.3.4.2.3. By End-User

8.3.4.2.4. By Product Mode

8.3.5. Australia Chlorinator Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Application

8.3.5.2.2. By Type

8.3.5.2.3. By End-User

8.3.5.2.4. By Product Mode

9. SOUTH AMERICA CHLORINATOR MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Application

- 9.2.2. By Type
- 9.2.3. By End-User
- 9.2.4. By Product Mode
- 9.2.5. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Chlorinator Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Application
 - 9.3.1.2.2. By Type
 - 9.3.1.2.3. By End-User
 - 9.3.1.2.4. By Product Mode
 - 9.3.2. Argentina Chlorinator Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Application
 - 9.3.2.2.2. By Type
 - 9.3.2.2.3. By End-User
 - 9.3.2.2.4. By Product Mode
 - 9.3.3. Colombia Chlorinator Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Application
 - 9.3.3.2.2. By Type
 - 9.3.3.2.3. By End-User
 - 9.3.3.2.4. By Product Mode

10. MIDDLE EAST AND AFRICA CHLORINATOR MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Application
 - 10.2.2. By Type
 - 10.2.3. By End-User
 - 10.2.4. By Product Mode

10.2.5. By Country

10.3. Middle East and Africa: Country Analysis

10.3.1. South Africa Chlorinator Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Application

10.3.1.2.2. By Type

10.3.1.2.3. By End-User

10.3.1.2.4. By Product Mode

10.3.2. Saudi Arabia Chlorinator Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Application

10.3.2.2.2. By Type

10.3.2.2.3. By End-User

10.3.2.2.4. By Product Mode

10.3.3. UAE Chlorinator Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Application

10.3.3.2.2. By Type

10.3.3.2.3. By End-User

10.3.3.2.4. By Product Mode

10.3.4. Kuwait Chlorinator Market Outlook

10.3.4.1. Market Size & Forecast

10.3.4.1.1. By Value

10.3.4.2. Market Share & Forecast

10.3.4.2.1. By Application

10.3.4.2.2. By Type

10.3.4.2.3. By End-User

10.3.4.2.4. By Product Mode

10.3.5. Turkey Chlorinator Market Outlook

10.3.5.1. Market Size & Forecast

10.3.5.1.1. By Value

10.3.5.2. Market Share & Forecast

10.3.5.2.1. By Application

- 10.3.5.2.2. By Type
- 10.3.5.2.3. By End-User
- 10.3.5.2.4. By Product Mode

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. COMPANY PROFILES

- 13.1. Evoqua Water Technologies LLC
 - 13.1.1. Business Overview
 - 13.1.2. Key Revenue and Financials
 - 13.1.3. Recent Developments
 - 13.1.4. Key Personnel/Key Contact Person
 - 13.1.5. Key Product/Services Offered
- 13.2. Prominent GmbH
- 13.3. Grundfos Holding A/S
- 13.4. De Nora Water Technologies, LLC
- 13.5. Lenntech B.V.
- 13.6. Suez Water Technologies & Solutions
- 13.7. Blue-White Industries, Ltd.
- 13.8. Emerson Electric Co.
- 13.9. IDEX Corporation
- 13.10. Ozone Engineers

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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