

UV Disinfection Equipment Market: Segmented by Component (UV Lamps, Xenon/LED); by Application (Water and Wastewater, Surface) and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

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Abstracts

[175+ Pages Research Report] Global UV Disinfection Equipment Market to surpass USD 13.8 billion by 2030 from USD 4.1 billion in 2020 at a CAGR of 13.96 % in the coming years, i.e., 2021-30. Equipment for UV disinfection can disable living microorganisms in air, water or surfaces and prevent disease spread. Bacteria, viruses and protozoa are rendered incapable of reproduction and infection when they are subjected to the germicidal wavelength of UV light.

Product Overview

UV disinfection is most commonly used to remove dangerous microorganisms. It is one of the most active, detailed, unwavering, and secure disinfection technologies commercially available. UV disinfection technology's characteristics are the primary reason for its growing use in a variety of water and wastewater treatment applications. UV disinfection equipment kills or inactivates microorganisms by killing nucleic acids and damaging DNA, rendering them unable to conduct essential cellular functions. It has a wide range of uses, including food, air, and water purification.

Market Highlights

Global UV Disinfection Equipment market is expected to project a notable CAGR of 13.96% in 2030.

The radiation UVC is usually around 200–280 nm, with pathogens, including the virus causing COVID-19, shown to be deactivated or eradicated. Plastic and steel surfaces can survive on COVID-19 for up to 3 days. The virus cannot be killed for normal

cleaning or chemical disinfection. UV disinfectant uses a very low dose of UV light to inactivate pathogens in this germicidal zone and less time. In schools, hospitals, airports, railways, and elsewhere, UV disinfecting equipment has since been built to deactivate and eliminate coronavirus propagation. For sterilizing hospitals, robots with UV lamps are used.

Global UV Disinfection Equipment: Segments

UV Lamps segment to grow with the highest CAGR during 2020-30

Global UV Disinfection Equipment market is segmented by component into UV Lamps, Xenon/LED. UV lamps dominated the industry in 2020, accounting for global sales due to rising demand in water and wastewater treatment plants. Demand is likely to be driven by the growing popularity of proper disinfectant technologies, as well as the concerns about hygiene and safety, especially in the healthcare and food and beverage industries. The maintenance and repair costs of sleeves, lamps, and ballasts, as well as other staffing requirements, determine the annual operating costs for this equipment. UV disinfection equipment prices have declined in recent years as a result of improved lamp and device designs, which have increased competition.

Water and Wastewater segment to grow with the highest CAGR during 2020-30

Global UV Disinfection Equipment is divided by application into Water and Wastewater, Surface. UV disinfection equipment growth in water and wastewater treatment applications led the industry in 2020, accounting of global sales. Infections from five common food-borne pathogens, including Cyclospora, Vibrio, STEC, Yersinia, and Campylobacter, are on the increase, according to the Center for Disease Control's food net study from 2020. As a result, demand for UV technology is projected to outpace demand for disinfection equipment. Infections associated with the poultry industry and leafy green produce are a source of concern. As a result, the CDC report emphasizes the need for more widespread disinfection technologies, such as ultraviolet light, to minimize contamination during food processing, preparation, and production.

The product has a variety of applications in point-of-entry, point-of-use, point-of-fill, post-carbon filter, pre membrane filtration, pre reverse osmosis system, post water, and pre syrup storage tanks, post reverse osmosis storage tank, subsequent to process and distribution loops, and where there is a bio-contamination issue, as UV disinfection prevents bacterial growth that can arise from seepage.

Market Dynamics

Drivers

Investment in wastewater facility

Over the projected timeframe, rising investments for wastewater facility expansion, combined with an increase in the prevalence of Hospital-Acquired Infections (HAIs), are anticipated to drive the market. Furthermore, the growing use of recycled water in landscape irrigation, car washing, and urinals has increased demand for disinfection solutions, which is supposed to propel market growth over the forecast period.

Effective in deadly diseases like COVID-19

Equipment for UV disinfection can disable living microorganisms in air, water, or surfaces and prevent disease spread. Bacteria, viruses, and protozoa are rendered incapable of reproduction and infection when they are subjected to the germicidal wavelength of UV light. The radiation UVC is usually around 200–280 nm, with pathogens, including the virus causing COVID-19, shown to be deactivated or eradicated. Plastic and steel surfaces can survive on COVID-19 for up to 3 days. The virus cannot be killed for normal cleaning or chemical disinfection. UV disinfectant uses a very low dose of UV light to inactivate pathogens in this germicidal zone and in less time. In schools, hospitals, airports, railways, and elsewhere, UV disinfecting equipment has since been built to deactivate and eliminate coronavirus propagation. For sterilizing hospitals, robots with UV lamps are used.

Restraint

Lower cost substitute

Consequently, the reduced costs of this replacement attract more end consumers. The effects of this restriction are currently moderate and are projected to decrease owing to the efficiency of UV disinfection systems during the projected timeline.

Global UV Disinfection Equipment: Key Players

Xylem Inc. (US)

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Trojan Technologies (Canada)

Halma Group (UK)

Kuraray Co., Ltd. (Japan)

Atlantic Ultraviolet Corporation (US)

Evoqua Water Technologies LLC (US)

Advanced UV, Inc. (US)

American Ultraviolet (US)

Atlantium Technologies Ltd. (Israel)

Hoenle AG (Germany),

Other Prominent Players

Global UV Disinfection Equipment: Regions

Global UV Disinfection Equipment market is segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, Asia Pacific, and the Middle East, and Africa. Global UV Disinfection Equipment in Asia Pacific held the largest market share of XX% in the year 2020. Asia Pacific was the industry leader and accounted for more than XX% of world sales in 2019. Countries, like China and India, make heavy investments in start-ups and existing firms in the development of COVID- 19 goods.

The European area is expected to have a positive effect on the global market growth in many national guidelines or norms for cleaning and disinfecting activities. In addition, reliance on conventional clean-up of water and detergents in various countries is anticipated to offer avenues for product demand in the region. The use of ultraviolet light for operating chamber disinfection, intensive care centers, patient rooms, isolation of infection/protection, dialysis units, and ambulatory clinics is confined to certain European countries. Increased understanding of surface disinfection and evolving EN standards would have a positive effect on product demand

Global UV Disinfection Equipment is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA

Global UV Disinfection Equipment report also contains analysis on:

UV Disinfection Equipment Segments:

By component Type

UV Lamps

Xenon/LED

By application

Water and Wastewater

Surface

UV Disinfection Equipment Dynamics

UV Disinfection Equipment Size

Supply & Demand

Current Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

UV Disinfection Equipment Market Report Scope and Segmentation

Frequently Asked Questions

How big is the UV Disinfection Equipment market?

What is the UV Disinfection Equipment market growth?

Which segment accounted for the largest UV Disinfection Equipment market share?

Who are the key players in the UV Disinfection Equipment market?

What are the factors driving the UV Disinfection Equipment market?

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9. ATLANTIUM TECHNOLOGIES LTD. (ISRAEL)

10. HOENLE AG (GERMANY),

11. OTHER PROMINENT PLAYERS

Consultant Recommendation

****The above-given segmentation and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.**

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