

# **UV Disinfection Equipment Market Forecast to 2030 - Global Analysis by Component (UV Lamps, Reactor Chambers, Quartz Sleeves, Control Units, and Others), Power Rating (Low, High, and Medium), Application (Water Disinfection, Air Disinfection, and Surface Disinfection), End User (Residential, Commercial, Industrial, and Municipal)**

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## **Abstracts**

The global UV Disinfection Equipment market was valued at US\$ 5.08 billion in 2022 and is expected to grow at a CAGR of 13.7% during the forecast period of 2023 to 2030 to reach US\$ 14.18 billion by 2030.

UV disinfection can be used to purify the air in commercial buildings. UV light can kill airborne bacteria, viruses, and mold spores. This can help to improve air quality and reduce the risk of respiratory infections. Various manufacturers of UV disinfection are also developing products for commercial uses for air purification. For instance, in October 2020, Energy Focus, a company that makes sustainable LED lighting and human-centric lighting technologies, released a line of germicidal UV-C disinfection products. These products claim to use advanced, patent-pending technology to destroy 99.9% of pathogens, including influenza and SARS-CoV-2, in the air or on surfaces. It helps to improve indoor hygiene and sanitation in commercial and residential settings. For instance, in October 2020, in order to address the needs of air and surface disinfection for commercial, industrial, and residential indoor environments, the three initial products—nUVo, abUV, and mUVe—were launched by Energy Focus.

In 2020, rapid spread of the novel coronavirus urged governments across the world to impose strict restrictions on human movement. Travel restrictions, mass lockdowns, and

business shutdowns adversely affected economies and countless industries in various countries. The shutdown of all the closure of commercial, industrial, and municipal areas has dropped the demand for UV disinfection equipment during the pandemic. Thus, the COVID-19 pandemic has negatively impacted the UV disinfection equipment market growth. In Q4 of 2020, the UV disinfection equipment market started to stabilize due to the ease in the lockdown restrictions. The manufacturing plants of UV disinfection equipment also restarted, fueling the market growth. In addition, the market players in UV disinfection equipment market restarted receiving orders from various end users such as residential, commercial, industrial, and municipal.

The Europe UV disinfection equipment market is segmented into Germany, Italy, France, the UK, Russia, and the Rest of Europe. The increasing disposable income propels residential construction activities. European countries are experiencing high growth in their construction sector, and governments of various countries are taking initiatives to support their construction industry, especially infrastructural development in the residential sector. For instance, the Italian government has invested in strengthening its public and private infrastructural development. This, in turn is anticipated to support the growth of UV disinfection equipment market growth in the region.

The government announced schemes such as First Home Guarantee, which accelerated residential construction growth. This, in turn is expected to supplement the UV disinfection equipment market growth. According to International Trade Administration in November 2022, the total investments in construction were around US\$ 167.48 billion (EUR 147.9 billion) in 2021, a rise of 16.4% in 2021 compared to 2020, as per the report by National Association of Building Contractors (ANCE). In addition, the investment in new housing construction increased by 12%, and investments in nonresidential building construction rose by 11.6% in 2021 compared to 2020. In Spain, the government provided subsidiaries and grants to renovate and construct houses for rent. According to U.S. News & World Report L.P. in August 2022, the Spanish government approved US\$ 1.89 billion (EUR 1.9 billion) for the housing renovation in Spain. Also, according to GOV.UK in September 2021, under the National Infrastructure and Construction Pipeline 2017, around US\$ 766 billion (EUR 650 billion) will be invested in infrastructure development across the UK in the next 10 years. Thus, the increasing investments in infrastructural developments further generate the need for disinfection solutions to promote the safety and security of people. In addition, the need to treat the wastewater from the construction sites will fuel the demand for disinfection solutions, which propels the UV disinfection equipment market size growth in Europe.

Further, UV disinfectant equipment market players such as Halma Plc, Dr. Honle AG, and others are constantly providing solutions to treat water and wastewater across Europe. According to Europe Environment Agency (EEA) in February 2023, the share of urban collection and treatment of wastewater in line with EU standards is growing across the region. The rising solutions by the market players to treat wastewater fuel the UV disinfectant equipment market in Europe. This, in turn is anticipated to support the growth of UV disinfection equipment market size growth in the region.

In Germany, UV disinfection equipment is extensively used in different manufacturing stages in various sectors, such as pharmaceuticals, food, and hospital. Germany has approximately 1,000 pharmaceutical units. Also, the food industry is governed by the Food, Commodities, and Feed Code (LFBG). Growth in above industries is anticipated to create demand for the waste water management, and the UV disinfection equipment have major role in the wastewater management. Therefore, the demand for UV disinfection equipment is expected to increase from these industries during the forecast period. This, in turn is anticipated to support the growth of UV disinfection equipment market growth in Germany.

Further, according to the European Commission, under the waste framework directives 2025, Europe is formulating for re-use and the recycling of municipal waste to be increased to a minimum of 55%, 60%, and 65% by weight by 2025, 2030, and 2035, respectively. And due to the ambitious recycling goals set by national and EU legislation, Germany has established a large presence of plastic recycling facilities. Also, according to the Federal Ministry of Nature Conservation, Environment, Nuclear Safety, and Consumer Protection—as of 2020, 280,000 were employed in waste management, an economic sector with approximately 80 billion euros in revenues, and ~15,000 waste treatment plants in Germany. Thus, the UV in Germany is growing rapidly due to the increase in the recycling processes and the rise in the construction of treatment plants. This, in turn is expected to propels the UV disinfectant equipment market growth in Europe.

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