

# **UV Disinfection Equipment Market by Component (UV Lamps, Reactor Chambers, Quartz Sleeves, Controller Units), Power Rating (High, Medium, Low), Application, End-user (Municipal, Residential, Industrial, Commercial) and Region - Global Forecast to 2027**

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## **Abstracts**

The UV disinfection equipment market is projected to grow from USD 5.0 billion in 2022 to USD 9.1 billion by 2027; it is expected to grow at a CAGR of 12.5% from 2022 to 2027.

“Extensive use of UV disinfection equipment in healthcare facilities for disinfecting hospital environment”

Ultraviolet (UV) disinfection equipment are equipped with UV light to combat microbial contamination in water, air, and on surfaces. UV light is suitable for these equipment, as it is capable of inactivating microorganisms such as bacteria, viruses, and protozoa. When bacteria, viruses, and protozoa are exposed to germicidal wavelengths of UV light, the light penetrates the microorganisms and destroys their DNA. When the DNA of the microorganism is damaged, it stops functioning and reproducing; this helps to disinfect the area of contamination. Companies operating in this ecosystem offer a wide range of UV disinfection equipment designed for different applications and end users.

The hospital environment is a major source of disease transmission. Numerous patients, staff, and visitors in the hospitals can get infected due to various bacteria and viruses present in the hospitals and develop hospital-acquired infection (HAI).

“Growing adoption of UV disinfection equipment for water and wastewater treatment worldwide”

The growing adoption of UV disinfection equipment for water and wastewater treatment is creating lucrative opportunities for the manufacturers of UV disinfection equipment. Municipal organizations are the major users of UV disinfection equipment for water and wastewater treatment applications. There are several applications for which water treatment is carried out by municipal organizations. Some of them are drinking water treatment, metal removal, and wastewater treatment.

Among the methods of water disinfection, UV disinfection offers several advantages over ozone-based and chlorine-based disinfection. UV disinfection method is cheaper than ozone-based disinfection, and unlike chlorine-based disinfection, it does not require a chemical to disinfect water. It is more environmentally friendly and requires lesser contact time with water during the disinfection process. Owing to these benefits, the demand for UV disinfection equipment is increasing among municipal corporations worldwide. With the increasing population across the world, most of the municipal corporations are choosing UV disinfection equipment as their first choice to treat drinking water and wastewater and are increasingly focusing on the installation of UV disinfection equipment for the distribution of safe drinking water to people. The impact of this opportunity is currently moderate and is expected to be high in the coming years.

“Asia Pacific to grow at a fastest rate in the forecast period”

The growth of the UV disinfection equipment market in Asia Pacific can be attributed to the increasing population and the growing requirement for clean and safe water to avoid the spread of water-borne diseases. Kuraray Co., Ltd., Alfaa UV, Australian Ultra Violet Services Pty. Ltd. (AUVS), Hitech Ultraviolet Pvt. Ltd., Nectar Solutions, and Aquatic Solutions are some leading providers of UV disinfection equipment in Asia Pacific. The UV disinfection equipment in this region are mainly used for water and wastewater disinfection applications by municipal corporations. With the outbreak and the spread of the COVID-19, the demand for UV disinfection equipment for cleansing surfaces and air has increased overnight, leading to a shortage of these equipment.

Breakdown of profiles of primary participants:

By Company: Tier 1 =15%, Tier 2 =50%, and Tier 3 =35%

By Designation: C-level Executives = 45%, Directors= 35%, and Others (sales,

marketing, and product managers, as well as members of various organizations)  
=20%

By Region: North America = 45%, Asia Pacific=12%, Europe=35%, and South America=3% and Middle East and Africa = 5%.

Major players profiled in this report:

The UV disinfection equipment market is dominated by a few established players such as Xylem Inc. (US), Trojan Technologies (UK), 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), and Lumalier Corporation (US).

Research coverage

This report offers detailed insights into the UV disinfection equipment market based on component, application, end user, power rating, and region.

The report also provides a comprehensive review of market drivers, restraints, opportunities, and challenges in the UV disinfection equipment market. The report also covers qualitative aspects in addition to the quantitative aspects of these markets.

Key Benefits of Buying the Report

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the UV disinfection equipment market and provides them information on key market drivers, restraints, challenges, and opportunities.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION AND SCOPE

##### 1.2.1 INCLUSIONS AND EXCLUSIONS

##### 1.2.2 STUDY SCOPE

#### FIGURE 1 UV DISINFECTANT EQUIPMENT MARKET SEGMENTATION

##### 1.2.3 YEARS CONSIDERED

#### 1.3 CURRENCY

#### 1.4 MARKET STAKEHOLDERS

#### 1.5 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 2 UV DISINFECTION EQUIPMENT MARKET: RESEARCH DESIGN

##### 2.1.1 SECONDARY DATA

###### 2.1.1.1 List of key secondary sources

###### 2.1.1.2 Secondary sources

##### 2.1.2 PRIMARY DATA

###### 2.1.2.1 Breakdown of primaries

###### 2.1.2.2 Key data from primary sources

###### 2.1.2.3 Key industry insights

#### 2.2 FACTOR ANALYSIS

#### FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1—TOP-DOWN (SUPPLY SIDE)—REVENUE GENERATED BY COMPANIES FROM SALES OF UV DISINFECTION EQUIPMENT

#### FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1—TOP-DOWN (SUPPLY SIDE)—ILLUSTRATION OF REVENUE ESTIMATIONS FOR ONE COMPANY IN UV DISINFECTION EQUIPMENT MARKET

#### FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2—BOTTOM-UP (DEMAND SIDE)—DEMAND FOR UV DISINFECTION EQUIPMENT COMPONENTS

#### 2.3 MARKET SIZE ESTIMATION

##### 2.3.1 BOTTOM-UP APPROACH

###### 2.3.1.1 Approach for capturing market share using bottom-up analysis (demand side)

#### FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

## 2.3.2 TOP-DOWN APPROACH

2.3.2.1 Approach for capturing market share using top-down analysis (supply side)

FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

## 2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 8 DATA TRIANGULATION

## 2.5 RESEARCH ASSUMPTIONS AND LIMITATIONS

2.5.1 ASSUMPTIONS

TABLE 1 ASSUMPTIONS FOR RESEARCH STUDY

2.5.2 LIMITATIONS

## 3 EXECUTIVE SUMMARY

FIGURE 9 UV DISINFECTION EQUIPMENT MARKET, 2018–2027 (USD BILLION)

FIGURE 10 UV LAMPS SEGMENT PROJECTED TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

FIGURE 11 MUNICIPAL SEGMENT TO HOLD LARGEST SHARE OF MARKET DURING FORECAST PERIOD

FIGURE 12 WATER & WASTEWATER DISINFECTION SEGMENT ACCOUNTED FOR LARGEST MARKET SIZE IN 2021

FIGURE 13 UV DISINFECTION EQUIPMENT MARKET IN ASIA PACIFIC PROJECTED TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

## 4 PREMIUM INSIGHTS

### 4.1 UV DISINFECTION EQUIPMENT MARKET OVERVIEW

FIGURE 14 INCREASING DEMAND FOR UV DISINFECTION EQUIPMENT DUE TO THREATS OF INFECTIOUS DISEASES IS EXPECTED TO FUEL MARKET GROWTH

### 4.2 UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT AND POWER RATING

FIGURE 15 UV LAMPS AND HIGH-POWER UV DISINFECTION EQUIPMENT SEGMENTS PROJECTED TO ACCOUNT FOR LARGEST SHARE OF UV DISINFECTION EQUIPMENT MARKET IN 2027

### 4.3 UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION

FIGURE 16 WATER & WASTEWATER DISINFECTION APPLICATION PROJECTED TO ACCOUNT FOR LARGEST SHARE OF UV DISINFECTION EQUIPMENT MARKET IN 2027

### 4.4 UV DISINFECTION EQUIPMENT MARKET, BY END USER

FIGURE 17 MUNICIPAL SEGMENT TO ACCOUNT FOR LARGEST SHARE OF UV DISINFECTION EQUIPMENT MARKET IN 2027

#### 4.5 UV DISINFECTION EQUIPMENT MARKET, BY COUNTRY

FIGURE 18 UV DISINFECTION EQUIPMENT MARKET IN INDIA IS PROJECTED TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

### 5 MARKET OVERVIEW

#### 5.1 INTRODUCTION

#### 5.2 MARKET DYNAMICS

FIGURE 19 UV DISINFECTION EQUIPMENT MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

##### 5.2.1 DRIVERS

5.2.1.1 Extensive use of UV disinfection equipment in healthcare facilities for disinfecting hospital environment

FIGURE 20 PERCENTAGE OF HAI PATIENTS IN EUROPE

5.2.1.2 Increasing demand for UV disinfection equipment to combat COVID-19 pandemic

5.2.1.3 Intensifying concerns regarding safe drinking water in emerging countries

5.2.1.4 Long life and low power consumption of UVC LED-based UV disinfection equipment

FIGURE 21 ANALYSIS OF IMPACT OF DRIVERS ON UV DISINFECTION EQUIPMENT MARKET

##### 5.2.2 RESTRAINTS

5.2.2.1 Lower cost of conventional disinfectants compared to UV lights

5.2.2.2 Lack of residual ability of UV disinfection equipment

FIGURE 22 ANALYSIS OF IMPACT OF RESTRAINTS ON UV DISINFECTION EQUIPMENT MARKET

##### 5.2.3 OPPORTUNITIES

5.2.3.1 Increasing demand for ultrapure water

5.2.3.2 Growing adoption of UV disinfection equipment for water and wastewater treatment worldwide

FIGURE 23 ANALYSIS OF IMPACT OF OPPORTUNITIES ON UV DISINFECTION EQUIPMENT MARKET

##### 5.2.4 CHALLENGES

5.2.4.1 Misconceptions regarding UV disinfection systems

5.2.4.2 Expansion of UV disinfection equipment manufacturing facilities in short period of time

FIGURE 24 ANALYSIS OF IMPACT OF CHALLENGES ON UV DISINFECTION EQUIPMENT MARKET

#### 5.3 SUPPLY CHAIN ANALYSIS

**FIGURE 25 UV DISINFECTION EQUIPMENT VALUE CHAIN****5.4 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES****5.4.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR UV DISINFECTION EQUIPMENT MARKET****FIGURE 26 REVENUE SHIFT IN UV DISINFECTION EQUIPMENT MARKET****5.5 UV DISINFECTION EQUIPMENT ECOSYSTEM****FIGURE 27 UV DISINFECTION EQUIPMENT ECOSYSTEM****TABLE 2 LIST OF OEMS, SUPPLIERS, AND DISTRIBUTORS OF UV DISINFECTION EQUIPMENT****5.6 PORTER'S FIVE FORCES ANALYSIS****TABLE 3 UV DISINFECTION EQUIPMENT MARKET: PORTER'S FIVE FORCES ANALYSIS****5.7 CASE STUDY****5.7.1 ST. FRANCIS WAS ABLE TO ACHIEVE ITS GOAL OF MEETING NEW REGULATORY LIMITS BY USING XYLEM'S UV DISINFECTION SYSTEM****5.7.2 WEDECO UV SYSTEMS HELPED FRENCH CREEK WASTEWATER TREATMENT PLANT (WWTP) TO SAVE ENERGY AND REDUCE MAINTENANCE****5.7.3 WHITE TANKS REGIONAL WATER TREATMENT FACILITY MET LT2 RULE USING UV DISINFECTION SOLUTION FROM TROJAN TECHNOLOGIES****5.7.4 METHODIST HEALTHCARE SYSTEMS CHOSE UVC GERMICIDAL FIXTURES FROM AMERICAN ULTRAVIOLET****5.7.5 MONITORING EFFECTIVENESS OF UV LAMPS TO DISINFECT MEDICAL-GRADE FACEPIECE RESPIRATORS FOR SAFE REUSE****5.8 TECHNOLOGY ANALYSIS****5.8.1 KEY TECHNOLOGIES****5.8.1.1 Ultraviolet (UV) light technology****5.8.2 ADJACENT TECHNOLOGIES****5.8.2.1 UVA technology****5.9 TRADE ANALYSIS****5.9.1 IMPORT SCENARIO****TABLE 4 IMPORT DATA, BY COUNTRY, 2017–2021 (USD THOUSAND)****5.9.2 EXPORT SCENARIO****TABLE 5 EXPORT DATA, BY COUNTRY, 2017–2021 (USD THOUSAND)****5.10 PATENT ANALYSIS****TABLE 6 NUMBER OF PATENTS REGISTERED RELATED TO UV DISINFECTION MARKET IN LAST 10 YEARS****FIGURE 28 TOP 10 COMPANIES WITH HIGHEST NO. OF PATENTS IN LAST 10 YEARS****FIGURE 29 NO. OF PATENTS GRANTED PER YEAR, 2012–2021**

## 5.11 TARIFFS AND REGULATIONS RELATED TO UV LAMPS

### 5.11.1 TARIFFS

### 5.11.2 REGULATORY COMPLIANCE

### 5.11.3 STANDARDS

## 5.12 DIFFERENT DEPLOYMENT MODES USED FOR UV DISINFECTION EQUIPMENT

### FIGURE 30 DIFFERENT DEPLOYMENT MODES USED FOR UV DISINFECTION EQUIPMENT

#### 5.12.1 MOBILE

#### 5.12.2 WALL MOUNTED

#### 5.12.3 OTHERS

## 5.13 AVERAGE SELLING PRICE ANALYSIS

### TABLE 7 AVERAGE SELLING PRICE OF UV DISINFECTION EQUIPMENT COMPONENTS

### TABLE 8 AVERAGE SELLING PRICE OF COMPONENTS IN NORTH AMERICA

## 6 UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT

### 6.1 INTRODUCTION

#### FIGURE 31 UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT

#### FIGURE 32 UV LAMPS PROJECTED TO REGISTER HIGHEST CAGR IN UV DISINFECTION EQUIPMENT MARKET FROM 2022 TO 2027

#### TABLE 9 UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

#### TABLE 10 UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

#### TABLE 11 UV LAMPS: UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT, 2018–2021 (MILLION UNITS)

#### TABLE 12 UV LAMPS: UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT, 2022–2027 (MILLION UNITS)

### 6.2 UV LAMPS

#### TABLE 13 COMPARISON OF MERCURY UV LAMPS AND UV LEDS

#### TABLE 14 UV LAMPS: UV DISINFECTION EQUIPMENT MARKET, BY TYPE, 2018–2021 (USD MILLION)

#### TABLE 15 UV LAMPS: UV DISINFECTION EQUIPMENT MARKET, BY TYPE, 2022–2027 (USD MILLION)

#### TABLE 16 UV LAMPS: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

#### TABLE 17 UV LAMPS: UV DISINFECTION EQUIPMENT MARKET, BY REGION,



2022–2027 (USD MILLION)

#### 6.2.1 MERCURY UV LAMPS

6.2.1.1 Mercury UV lamps emit varied wavelengths

TABLE 18 MERCURY UV LAMPS MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 19 MERCURY UV LAMPS MARKET, BY TYPE, 2022–2027 (USD MILLION)

6.2.1.2 Low-pressure mercury UV lamps

6.2.1.2.1 Low-pressure mercury UV lamps offer 12,000 hours of life and convert up to 40% of electricity into UV

6.2.1.3 Medium-pressure mercury UV lamps

6.2.1.3.1 Medium-pressure mercury UV lamps are extensively used in food & beverages and pharmaceuticals industries

6.2.1.4 Amalgam mercury UV lamps

6.2.1.4.1 Amalgam mercury UV lamps produce more UV output than standard low-pressure lamps of same wavelength

#### 6.2.2 UV LEDS

6.2.2.1 Shift towards mercury-free UV lamps will accelerate demand for UV LEDS

#### 6.3 QUARTZ SLEEVES

6.3.1 QUARTZ SLEEVES PROTECT UV LAMPS FROM EXTERNAL ENVIRONMENTAL HAZARDS

TABLE 20 QUARTZ SLEEVES: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 21 QUARTZ SLEEVES: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

#### 6.4 REACTOR CHAMBERS

6.4.1 REACTOR CHAMBERS HOUSE UV LAMPS AND SLEEVES IN UV DISINFECTION EQUIPMENT

TABLE 22 REACTOR CHAMBERS: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 23 REACTOR CHAMBERS: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

#### 6.5 CONTROLLER UNITS

6.5.1 CONTROLLER UNITS CONTROL ELECTRICAL OUTPUT IN UV DISINFECTION EQUIPMENT

TABLE 24 CONTROLLER UNITS: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 25 CONTROLLER UNITS: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

#### 6.6 OTHERS

TABLE 26 OTHERS: UV DISINFECTION EQUIPMENT MARKET, BY REGION,

2018–2021 (USD MILLION)

TABLE 27 OTHERS: UV DISINFECTION EQUIPMENT MARKET, BY REGION,  
2022–2027 (USD MILLION)

## **7 UV DISINFECTION EQUIPMENT MARKET, BY POWER RATING**

### 7.1 INTRODUCTION

FIGURE 33 UV DISINFECTION EQUIPMENT MARKET, BY POWER RATING

FIGURE 34 MEDIUM-POWER UV DISINFECTION EQUIPMENT MARKET

PROJECTED TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

TABLE 28 UV DISINFECTION EQUIPMENT MARKET, BY POWER RATING,  
2018–2021 (USD MILLION)

TABLE 29 UV DISINFECTION EQUIPMENT MARKET, BY POWER RATING,  
2022–2027 (USD MILLION)

### 7.2 LOW

7.2.1 LOW-POWER UV DISINFECTION EQUIPMENT SUITABLE FOR  
RESIDENTIAL AND COMMERCIAL APPLICATIONS

### 7.3 MEDIUM

7.3.1 MEDIUM-POWER UV DISINFECTION EQUIPMENT DEPLOYED FOR  
INDUSTRIAL AND COMMERCIAL APPLICATIONS

### 7.4 HIGH

7.4.1 HIGH-POWER UV DISINFECTION EQUIPMENT ARE MAINLY USED FOR  
LARGE-SCALE APPLICATIONS

## **8 UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION**

### 8.1 INTRODUCTION

FIGURE 35 UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION

FIGURE 36 SURFACE DISINFECTION APPLICATION SEGMENT TO RECORD  
HIGHEST CAGR FROM 2022 TO 2027

TABLE 30 UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021  
(USD MILLION)

TABLE 31 UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027  
(USD MILLION)

### 8.2 WATER AND WASTEWATER DISINFECTION

8.2.1 WATER AND WASTEWATER DISINFECTION SEGMENT TO LEAD UV  
DISINFECTION EQUIPMENT MARKET DURING FORECAST PERIOD

TABLE 32 WATER & WASTEWATER DISINFECTION: UV DISINFECTION  
EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 33 WATER & WASTEWATER DISINFECTION: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 8.3 PROCESS WATER DISINFECTION

8.3.1 HIGH DEMAND FOR PURE WATER IN PHARMACEUTICALS, COSMETICS, AND FOOD & BEVERAGES INDUSTRIES TO DRIVE MARKET

TABLE 34 PROCESS WATER DISINFECTION: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 35 PROCESS WATER DISINFECTION: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 8.4 AIR DISINFECTION

8.4.1 COMMERCIAL SPACES AND HEALTHCARE ORGANIZATIONS USE UV DISINFECTION EQUIPMENT FOR AIR DISINFECTION

TABLE 36 AIR DISINFECTION: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 37 AIR DISINFECTION: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 8.5 SURFACE DISINFECTION

8.5.1 UV DISINFECTION EQUIPMENT FIND APPLICATIONS IN PACKAGING AND FOOD PROCESSING INDUSTRIES FOR SURFACE DISINFECTION

TABLE 38 SURFACE DISINFECTION: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 39 SURFACE DISINFECTION: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

## 9 UV DISINFECTION EQUIPMENT MARKET, BY END USER

### 9.1 INTRODUCTION

FIGURE 37 UV DISINFECTION EQUIPMENT MARKET, BY END USER

FIGURE 38 MUNICIPAL SEGMENT TO REGISTER HIGHEST CAGR FROM 2022 TO 2027

TABLE 40 UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 41 UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

### 9.2 RESIDENTIAL

9.2.1 GROWING CONCERNS REGARDING SAFETY AND HYGIENE TO DRIVE RESIDENTIAL SEGMENT

TABLE 42 RESIDENTIAL: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 43 RESIDENTIAL: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 9.3 COMMERCIAL

9.3.1 COMMERCIAL END USERS USE UV DISINFECTION SYSTEMS TO TREAT POTABLE WATER AND WASTEWATER

TABLE 44 COMMERCIAL: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 45 COMMERCIAL: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 9.4 INDUSTRIAL

9.4.1 DEMAND FROM PHARMACEUTICALS AND FOOD & BEVERAGES INDUSTRIES TO BOOST MARKET

TABLE 46 INDUSTRIAL: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 47 INDUSTRIAL: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 9.5 MUNICIPAL

9.5.1 GOVERNMENT FOCUS ON PROVIDING SAFE WATER TO INCREASE ADOPTION OF UV DISINFECTION EQUIPMENT

TABLE 48 MUNICIPAL: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 49 MUNICIPAL: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

## **10 UV DISINFECTION EQUIPMENT MARKET, BY REGION**

### 10.1 INTRODUCTION

FIGURE 39 UV DISINFECTION EQUIPMENT MARKET IN ASIA PACIFIC PROJECTED TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

TABLE 50 UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 51 UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

### 10.2 NORTH AMERICA

FIGURE 40 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET SNAPSHOT

TABLE 52 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 53 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY

COMPONENT, 2022–2027 (USD MILLION)

TABLE 54 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET FOR UV LAMPS, BY TYPE, 2018–2021 (USD MILLION)

TABLE 55 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET FOR UV LAMPS, BY TYPE, 2022–2027 (USD MILLION)

TABLE 56 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET FOR MERCURY UV LAMPS, BY TYPE, 2018–2021 (USD MILLION)

TABLE 57 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET FOR MERCURY UV LAMPS, BY TYPE, 2022–2027 (USD MILLION)

TABLE 58 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 59 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 60 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 61 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

TABLE 62 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 63 NORTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

#### 10.2.1 US

10.2.1.1 US to lead UV disinfection equipment market in North America from 2022 to 2027

TABLE 64 US: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 65 US: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 66 US: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 67 US: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.2.2 CANADA

10.2.2.1 Presence of leading UV disinfection equipment manufacturers favors market growth in Canada

TABLE 68 CANADA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 69 CANADA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 70 CANADA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 71 CANADA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

### 10.2.3 MEXICO

10.2.3.1 Increased adoption of UV disinfection equipment by municipal corporations to contribute to market growth

TABLE 72 MEXICO: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 73 MEXICO: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 74 MEXICO: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 75 MEXICO: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

### 10.3 EUROPE

FIGURE 41 EUROPE: UV DISINFECTION EQUIPMENT MARKET SNAPSHOT

TABLE 76 EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 77 EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 78 EUROPE: UV DISINFECTION EQUIPMENT MARKET FOR UV LAMPS, BY TYPE, 2018–2021 (USD MILLION)

TABLE 79 EUROPE: UV DISINFECTION EQUIPMENT MARKET FOR UV LAMPS, BY TYPE, 2022–2027 (USD MILLION)

TABLE 80 EUROPE: UV DISINFECTION EQUIPMENT MARKET FOR MERCURY UV LAMPS, BY TYPE, 2018–2021 (USD MILLION)

TABLE 81 EUROPE: UV DISINFECTION EQUIPMENT MARKET FOR MERCURY UV LAMPS, BY TYPE, 2022–2027 (USD MILLION)

TABLE 82 EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 83 EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 84 EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 85 EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

TABLE 86 EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 87 EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

#### 10.3.1 UK

10.3.1.1 Demand from commercial applications to contribute to market growth

TABLE 88 UK: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 89 UK: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 90 UK: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 91 UK: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.3.2 GERMANY

10.3.2.1 Requirement of reliable and sustainable solutions for water treatment to fuel demand for UV disinfection equipment

TABLE 92 GERMANY: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 93 GERMANY: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 94 GERMANY: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 95 GERMANY: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.3.3 NETHERLANDS

10.3.3.1 Government initiatives to reduce use of chlorine to generate demand for UV disinfection equipment

TABLE 96 NETHERLANDS: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 97 NETHERLANDS: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 98 NETHERLANDS: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 99 NETHERLANDS: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.3.4 FRANCE

10.3.4.1 Presence of multiple water and wastewater treatment plants spurs UV disinfection equipment demand in France

TABLE 100 FRANCE: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 101 FRANCE: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 102 FRANCE: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 103 FRANCE: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.3.5 ITALY

10.3.5.1 Heightened adoption of UV disinfection equipment in healthcare facilities to contribute to market growth

TABLE 104 ITALY: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 105 ITALY: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 106 ITALY: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 107 ITALY: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.3.6 REST OF EUROPE

TABLE 108 REST OF EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 109 REST OF EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 110 REST OF EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 111 REST OF EUROPE: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.4 ASIA PACIFIC

FIGURE 42 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET SNAPSHOT

TABLE 112 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 113 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 114 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET FOR UV LAMPS, BY TYPE, 2018–2021 (USD MILLION)

TABLE 115 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET FOR UV LAMPS, BY TYPE, 2022–2027 (USD MILLION)

TABLE 116 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET FOR MERCURY UV LAMPS, BY TYPE, 2018–2021 (USD MILLION)

TABLE 117 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET FOR



MERCURY UV LAMPS, BY TYPE, 2022–2027 (USD MILLION)

TABLE 118 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 119 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 120 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 121 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

TABLE 122 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 123 ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

#### 10.4.1 CHINA

10.4.1.1 Favorable regulations and government support drive UV disinfection equipment market in China

TABLE 124 CHINA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 125 CHINA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 126 CHINA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 127 CHINA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.4.2 JAPAN

10.4.2.1 Presence of key UV disinfection equipment manufacturers in Japan to augment market growth

TABLE 128 JAPAN: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 129 JAPAN: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 130 JAPAN: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 131 JAPAN: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.4.3 INDIA

10.4.3.1 Clean Ganga project to drive demand for UV disinfection equipment in India

TABLE 132 INDIA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 133 INDIA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 134 INDIA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 135 INDIA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.4.4 AUSTRALIA

10.4.4.1 Rise in number of projects using UV technology in Australia to underpin market growth

TABLE 136 AUSTRALIA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 137 AUSTRALIA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 138 AUSTRALIA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 139 AUSTRALIA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.4.5 SOUTH KOREA

10.4.5.1 River-cleaning initiatives undertaken in South Korea to promote use of UV disinfection equipment

TABLE 140 SOUTH KOREA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 141 SOUTH KOREA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 142 SOUTH KOREA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 143 SOUTH KOREA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.4.6 REST OF ASIA PACIFIC

TABLE 144 REST OF ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 145 REST OF ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 146 REST OF ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 147 REST OF ASIA PACIFIC: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.5 REST OF THE WORLD (ROW)

TABLE 148 ROW: UV DISINFECTION EQUIPMENT MARKET, BY COMPONENT,

2018–2021 (USD MILLION)

TABLE 149 ROW: UV DISINFECTION EQUIPMENT MARKET IN ROW, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 150 ROW: UV DISINFECTION EQUIPMENT MARKET FOR UV LAMPS, BY TYPE, 2018–2021 (USD MILLION)

TABLE 151 ROW: UV DISINFECTION EQUIPMENT MARKET FOR UV LAMPS, BY TYPE, 2022–2027 (USD MILLION)

TABLE 152 ROW: UV DISINFECTION EQUIPMENT MARKET FOR MERCURY UV LAMPS, BY TYPE, 2018–2021 (USD MILLION)

TABLE 153 ROW: UV DISINFECTION EQUIPMENT MARKET FOR MERCURY UV LAMPS, BY TYPE, 2022–2027 (USD MILLION)

TABLE 154 ROW: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 155 ROW: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 156 ROW: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 157 ROW: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

TABLE 158 ROW: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 159 ROW: UV DISINFECTION EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

#### 10.5.1 SOUTH AMERICA

10.5.1.1 Significant investments in UV disinfection equipment by public authorities to drive market in South America

TABLE 160 SOUTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 161 SOUTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 162 SOUTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 163 SOUTH AMERICA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

#### 10.5.2 MIDDLE EAST

10.5.2.1 Heightened need for reusing wastewater to spur demand for UV disinfection equipment in Middle East

TABLE 164 MIDDLE EAST: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 165 MIDDLE EAST: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 166 MIDDLE EAST: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 167 MIDDLE EAST: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

### 10.5.3 AFRICA

10.5.3.1 Scarcity of clean water in Africa to accelerate adoption of UV disinfection equipment

TABLE 168 AFRICA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 169 AFRICA: UV DISINFECTION EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 170 AFRICA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 171 AFRICA: UV DISINFECTION EQUIPMENT MARKET, BY END USER, 2022–2027 (USD MILLION)

## 11 COMPETITIVE LANDSCAPE

### 11.1 INTRODUCTION

### 11.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

TABLE 172 OVERVIEW OF STRATEGIES DEPLOYED BY KEY UV DISINFECTION EQUIPMENT OEMS

#### 11.2.1 PRODUCT PORTFOLIO

#### 11.2.2 REGIONAL FOCUS

#### 11.2.3 MANUFACTURING FOOTPRINT

#### 11.2.4 ORGANIC/INORGANIC GROWTH STRATEGIES

### 11.3 FIVE-YEAR COMPANY REVENUE ANALYSIS

FIGURE 43 FIVE-YEAR REVENUE ANALYSIS OF TOP FIVE PLAYERS IN UV DISINFECTION EQUIPMENT MARKET

### 11.4 MARKET SHARE ANALYSIS: UV DISINFECTION EQUIPMENT MARKET, 2021

TABLE 173 UV DISINFECTION EQUIPMENT MARKET: DEGREE OF COMPETITION, 2021

### 11.5 MARKET EVALUATION MATRIX

#### 11.5.1 STAR

#### 11.5.2 PERVASIVE

#### 11.5.3 EMERGING LEADER

#### 11.5.4 PARTICIPANT

**FIGURE 44 UV DISINFECTION EQUIPMENT MARKET COMPANY EVALUATION QUADRANT, 2021****11.5.5 COMPANY FOOTPRINT**

TABLE 174 COMPANY INDUSTRY FOOTPRINT

TABLE 175 COMPANY APPLICATION FOOTPRINT

TABLE 176 COMPANY REGION FOOTPRINT

**11.6 START-UP/ SMALL AND MEDIUM-SIZED ENTERPRISES (SME) EVALUATION MATRIX**

TABLE 177 LIST OF START-UP COMPANIES IN UV DISINFECTION EQUIPMENT MARKET

**11.6.1 PROGRESSIVE COMPANIES****11.6.2 RESPONSIVE COMPANIES****11.6.3 DYNAMIC COMPANIES****11.6.4 STARTING BLOCKS****FIGURE 45 UV DISINFECTION EQUIPMENT MARKET, START-UP/SME EVALUATION MATRIX, 2021****11.7 COMPETITIVE SITUATIONS AND TRENDS****11.7.1 PRODUCT LAUNCHES**

TABLE 178 PRODUCT LAUNCHES (JANUARY 2018 TO APRIL 2022)

**11.7.2 DEALS**

TABLE 179 DEALS (JANUARY 2018 TO APRIL 2022)

**12 COMPANY PROFILES****12.1 INTRODUCTION****12.2 KEY PLAYERS**

(Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View)\*

**12.2.1 XYLEM INC.**

TABLE 180 XYLEM INC: COMPANY SNAPSHOT

FIGURE 46 XYLEM INC.: COMPANY SNAPSHOT

**12.2.2 TROJAN TECHNOLOGIES**

TABLE 181 TROJAN TECHNOLOGIES: COMPANY SNAPSHOT

**12.2.3 HALMA GROUP**

TABLE 182 HALMA GROUP: COMPANY SNAPSHOT

FIGURE 47 HALMA GROUP: COMPANY SNAPSHOT

**12.2.4 KURARAY CO., LTD**

TABLE 183 KURARAY CO., LTD.: COMPANY SNAPSHOT

FIGURE 48 KURARAY CO., LTD.: COMPANY SNAPSHOT

#### 12.2.5 ATLANTIC ULTRAVIOLET CORPORATION

TABLE 184 ATLANTIC ULTRAVIOLET CORPORATION: COMPANY SNAPSHOT

#### 12.2.6 EVOQUA WATER TECHNOLOGIES LLC

TABLE 185 EVOQUA WATER TECHNOLOGIES LLC: COMPANY SNAPSHOT

FIGURE 49 EVOQUA WATER TECHNOLOGIES LLC: COMPANY SNAPSHOT

#### 12.2.7 ATLANTIUM TECHNOLOGIES LTD.

TABLE 186 ATLANTIUM TECHNOLOGIES LTD.: COMPANY SNAPSHOT

#### 12.2.8 AMERICAN ULTRAVIOLET

TABLE 187 AMERICAN ULTRAVIOLET: COMPANY SNAPSHOT

#### 12.2.9 HONLE AG

TABLE 188 HONLE AG: COMPANY SNAPSHOT

FIGURE 50 HONLE AG: COMPANY SNAPSHOT

#### 12.2.10 ADVANCED UV, INC.

TABLE 189 ADVANCED UV, INC.: COMPANY SNAPSHOT

#### 12.2.11 LUMALIER CORPORATION

TABLE 190 LUMALIER CORPORATION: COMPANY SNAPSHOT

\* Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View might not be captured in case of unlisted companies.

### 12.3 OTHER KEY PLAYERS

#### 12.3.1 SEOUL VIOSYS CO., LTD.

#### 12.3.2 HITECH ULTRAVIOLET PVT. LTD.

#### 12.3.3 UVO3 LTD.

#### 12.3.4 SUEZ WATER TECHNOLOGIES & SOLUTIONS

#### 12.3.5 UV PURE TECHNOLOGIES

#### 12.3.6 LIT COMPANY

#### 12.3.7 ALFAA UV

#### 12.3.8 ULTRAAQUA

#### 12.3.9 AUSTRALIAN ULTRA VIOLET SERVICES PTY. LTD. (AUVS)

#### 12.3.10 S.I.T.A. SRL

#### 12.3.11 TYPHON TREATMENT SYSTEMS LTD.

#### 12.3.12 AQUATIC SOLUTIONS

#### 12.3.13 INTEGRATED AQUA SYSTEMS, INC.

#### 12.3.14 AQUANETTO GROUP GMBH

#### 12.3.15 NECTAR SOLUTIONS

## 13 APPENDIX

### 13.1 DISCUSSION GUIDE

### 13.2 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

13.3 AVAILABLE CUSTOMIZATIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

## About

The report "UV Disinfection Market by Component (UV Lamp, Quartz Sleeve, Reactor Chamber, Controller Unit), Application (Water and Wastewater, Process Water, Air, and Surface), End User (Residential, Commercial, Industrial), and Geography - Global Forecast to 2023", The UV disinfection market was valued at USD 1.98 Billion in 2017 and is expected to reach USD 4.27 Billion by 2023, at a CAGR of 13.67% between 2017 and 2023. The growth of the UV disinfection market is driven by factors such as growing need for safe drinking water in developing countries, increasing favorable government initiatives, rising awareness among the users, and growing need for eco-friendly disinfection system.

### **Some of the major players in the UV disinfection market are**

UV Pure (Canada),

LIT Company (Germany),

ozonia (Switzerland),

uv-technik (UK),

Australian Ultra Violet services (Australia),

Advanced UV (US),

Atlantium Technologies (Israel),

Typhon Treatment Systems (UK).

### **Water and Wastewater expected to lead the UV disinfection market**

The increasing need for safe drinking water and wastewater treatment in the industrial segment is the major reason for the growth of the UV disinfection market for the water and wastewater application. Stringent government regulations in countries such as the US, the UK, Germany, Singapore, and India toward proper disposal of wastewater from industries is also driving the growth of the UV disinfection market for the water and



wastewater application across the world.

### **UV disinfection market for the municipal industry is expected to grow at the highest CAGR between 2017 and 2023**

Municipal utilities are responsible for treating water and supplying to residential, commercial, and industrial end users. However, the increasing need for safe drinking water and proper disposal of toxic chemicals in water bodies is compelling municipal utilities to switch to a less time-consuming and effective method for disinfection. Hence, the increasing need to treat water in natural resources, such as rivers and natural springs, as well as to treat wastewater from industries are among the major reasons for the increasing growth of the UV disinfection market for the municipal segment.

### **North America held the largest share of the UV disinfection market in 2016**

North America held the largest share of the market in 2016. This growth can be attributed to the presence of several leading UV disinfection equipment manufacturing companies in this region. Some of these companies include Xylem (US), Trojan Technologies (Canada), Halma (UK), Calgon (US), and Atlantic Ultra Violet (US).

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