

Global Photocatalytic Oxidation Air Disinfection System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Photocatalytic Oxidation Air Disinfection System market size was valued at US\$ 420 million in 2025 and is forecast to a readjusted size of US\$ 658 million by 2032 with a CAGR of 6.6% during review period.

A Photocatalytic Oxidation Air Disinfection System is an air treatment device that uses ultraviolet light or ultraviolet light-emitting diodes to activate titanium dioxide or composite catalytic materials, creating photocatalytic oxidation reactions that reduce airborne bacteria, viruses, mold, volatile organic compounds, and odor-causing substances. Major product configurations include portable, floor-standing, wall-mounted, ceiling-mounted, and in-duct or HVAC-integrated systems. Typical components include a photocatalytic reactor, catalyst panels or honeycomb substrates, an ultraviolet light source, fans, air filtration modules, activated carbon, control electronics, air quality sensors, an equipment housing, and intelligent control software. Some systems also integrate high-efficiency particulate filtration, ultraviolet germicidal treatment, ionization, and active-space oxidation. Key upstream inputs include titanium dioxide and composite photocatalysts, ceramic or metallic honeycomb substrates, ultraviolet lamps, ultraviolet light-emitting diodes, fans, motors, high-efficiency filter media, activated carbon, sensors, power supplies, and control boards. Major downstream customers include hospitals, clinics, elderly care facilities, schools, office buildings, hotels, commercial facilities, households, food processors, cold storage operators, agricultural facilities, transportation operators, and HVAC contractors. On a complete-equipment factory-gate basis, global effective production capacity is estimated at approximately 780,000 units in 2025, with sales volume of around 523,600 units and an average selling price of approximately USD 780 per unit. The industry's average gross margin is estimated at

approximately 34%?48%.

The global photocatalytic oxidation air disinfection system market is still in a stage characterized by diversified technological pathways and expanding application scenarios, without a unified industry standard. Duct-mounted HVAC PCO systems, led primarily by North American companies, have achieved relatively mature commercial deployment in residential buildings, commercial facilities, and selected healthcare and public environments. In contrast, room-based standalone devices increasingly adopt hybrid configurations combining PCO with HEPA filtration, activated carbon adsorption, and UV disinfection. The overall market is therefore characterized by a ?mature system-level segment and a diversified terminal device segment,? with significant differences remaining in catalyst materials, light sources, and reactor designs across manufacturers.

From the demand side, continuous improvement in indoor air quality remains the core driver of market growth. PCO technology demonstrates advantages in applications requiring sustained control of microorganisms and volatile organic compounds, particularly in healthcare facilities, elderly care institutions, schools, food processing plants, and cold-chain storage environments. In the post-pandemic period, increased attention to airborne transmission risks has shifted air disinfection systems from emergency procurement toward routine deployment. In addition, higher building airtightness and increasing urban density further intensify long-term indoor pollutant accumulation, strengthening demand for continuous air treatment solutions.

From a technological evolution perspective, PCO systems are transitioning from conventional UV lamp plus titanium dioxide coating structures toward high-surface-area catalytic materials, composite metal-oxide catalysts, and UV LED-based light source systems. Product development focus is shifting from laboratory-based pollutant removal efficiency toward real-world clean air delivery performance, long-term catalytic degradation stability, and by-product control capability. At the same time, multi-technology integration has become a dominant trend, with layered air treatment systems combining photocatalytic oxidation, HEPA filtration, activated carbon adsorption, and UV germicidal irradiation increasingly becoming standard configurations.

From an industry constraint perspective, the PCO market still faces challenges related to inconsistent evaluation frameworks and stringent safety verification requirements. System performance is highly sensitive to lighting intensity, humidity, airflow patterns, and pollutant concentrations, making direct comparison between products difficult using

a single metric. In addition, some systems may generate intermediate oxidation by-products such as aldehydes or residual ozone, leading regulatory authorities to impose increasingly strict requirements on long-term health impacts. Going forward, market competition is expected to consolidate toward companies capable of providing validated real-world performance data, low by-product emission characteristics, and proven engineering application cases, with the industry gradually shifting from concept-driven expansion to engineering-validated development.

This report is a detailed and comprehensive analysis for global Photocatalytic Oxidation Air Disinfection System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Photocatalytic Oxidation Air Disinfection System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Photocatalytic Oxidation Air Disinfection System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Photocatalytic Oxidation Air Disinfection System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Photocatalytic Oxidation Air Disinfection System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Photocatalytic Oxidation Air Disinfection

System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Photocatalytic Oxidation Air Disinfection System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include RGF Environmental Group, DiversiTech, Genesis Air, Airoid Systems, Air Oasis, Airgle Corporation, Field Controls, Puraclenz, Greentech Environmental, ANDES ELECTRIC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Photocatalytic Oxidation Air Disinfection System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Portable and Floor-standing

Wall-mounted and Ceiling-mounted

Other

Market segment by Reaction Mode

Pass-through PCO

Active-space PCO

Combined PCO

Market segment by Airflow Capacity

Up to 500 m³/h

501-1,500 m³/h

Above 1,500 m³/h

Market segment by Application

Healthcare and Elderly Care

Commercial and Public Buildings

Residential

Other

Major players covered

RGF Environmental Group

DiversiTech

Genesis Air

Airocide Systems

Air Oasis

Airgle Corporation

Field Controls

Puraclenz

Greentech Environmental

ANDES ELECTRIC

Kaltech

FUJICO

Nat?oSant?

Dongguan Lianda Environmental Technology

Beijing SOTO Corporation

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Photocatalytic Oxidation Air Disinfection System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photocatalytic Oxidation Air Disinfection

System, with price, sales quantity, revenue, and global market share of Photocatalytic Oxidation Air Disinfection System from 2021 to 2026.

Chapter 3, the Photocatalytic Oxidation Air Disinfection System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Photocatalytic Oxidation Air Disinfection System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Photocatalytic Oxidation Air Disinfection System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Photocatalytic Oxidation Air Disinfection System.

Chapter 14 and 15, to describe Photocatalytic Oxidation Air Disinfection System sales channel, distributors, customers, research findings and conclusion.

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