

Global Photocatalytic Air Purifier Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photocatalytic Air Purifier market size is expected to reach \$ 742 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Photocatalytic Air Purifiers are air purification devices that use photocatalyst materials and photocatalytic oxidation as a core or material functional module. In a typical system, ultraviolet, near-ultraviolet, or selected light sources activate titanium dioxide or modified photocatalytic coatings to generate hydroxyl radicals and reactive oxygen species, which are designed to decompose volatile organic compounds and odor molecules and to reduce or inactivate certain airborne or surface-associated microorganisms under controlled operating conditions. Commercial products are usually combined with HEPA filtration, activated carbon, UV-C lamps, fans, sensors, and electronic control systems, and are supplied as portable air purifiers, wall-mounted units, ceiling-mounted units, in-duct HVAC purification modules, and commercial air treatment equipment. Key upstream materials and components include titanium dioxide photocatalysts, UV lamps or UV LEDs, aluminum or plastic housings, fans, motors, sensors, control boards, power modules, HEPA media, activated carbon, and sealing components. Major downstream customers include residential users, hospitals, clinics, schools, office buildings, hotels, shopping malls, laboratories, food processing sites, livestock facilities, public transport operators, and HVAC engineering customers. On an ex-factory basis, the estimated global effective capacity of photocatalytic air purifiers in 2025 is about 1.65 million units, with global sales volume of around 1.24 million units, an average selling price of approximately USD 386 per unit, and an industry gross margin range of about 27%-42%.

The current market for photocatalytic air purifiers is shifting from concept-driven consumer products toward more professional indoor air quality solutions. Demand

comes from residential buildings, commercial spaces, public facilities, transportation environments, healthcare auxiliary areas, and selected industrial odor-control applications. Compared with conventional filtration-based air purifiers, these products place greater emphasis on the combined treatment of gaseous pollutants, odors, and certain microbial contaminants, giving them relevance in newly renovated spaces, high-occupancy areas, and environments with stricter air quality expectations. The supplier base remains fragmented. North American companies are relatively stronger in HVAC integration and active air purification routes, Japanese companies have distinctive applications in photo-disinfection, deodorization, and transportation, while Chinese suppliers are more active in residential, commercial, and public-space purification equipment. Overall, the industry is still in a growth stage marked by technology validation, clearer product positioning, and broader application development. Future product development will increasingly focus on hybrid purification, low by-product generation, safe operation, and intelligent control. A standalone photocatalytic module is generally not sufficient to meet customers' combined requirements for particulate removal, volatile organic compound reduction, odor control, microbial reduction, and operating comfort. As a result, mainstream products are expected to continue integrating high-efficiency filtration, activated carbon adsorption, ultraviolet light, airflow control, air quality sensors, and smart control systems. Residential and commercial users will pay more attention to noise, energy consumption, filter life, maintenance convenience, and long-term operational stability, while engineering customers will care more about compatibility with HVAC systems, ventilation infrastructure, and building management systems. As purchasing decisions move from functional claims to measurable performance and total cost of ownership, suppliers with stable performance data, modular design, and scenario-based solution capabilities will be better positioned. The main growth drivers include rising awareness of indoor air quality, increasing demand for air treatment in public buildings, renovation of commercial spaces, stronger air management requirements in transportation and education facilities, and continued consumer attention to formaldehyde, odors, and volatile organic compounds. Photocatalytic technology has application value in the treatment of gaseous pollutants and odors, and can complement filtration-based purification systems. This creates further penetration opportunities in premium residential use, commercial offices, hotels, schools, laboratories, transportation vehicles, and selected industrial scenarios. In addition, healthy building concepts, green building requirements, and public-space operation standards are encouraging equipment suppliers to move from standalone product sales toward system solutions, maintenance services, and application-specific configurations. Future market opportunities will be more concentrated in segments with clear pain points, verifiable performance, and recurring maintenance needs. The main restraints include inconsistent market understanding, uneven testing and evaluation

systems, strong dependence of real-world performance on operating conditions, and reduced customer trust caused by excessive marketing by some suppliers. Photocatalytic purification performance can be affected by light intensity, catalyst activity, airflow, contact time, humidity, pollutant concentration, and maintenance status, leading to significant differences across products in practical use. Some low-end products emphasize the photocatalyst concept but lack reliable test data, long-term operating validation, and clear by-product control information, which can create confusion in the market. Future competition is expected to shift from concept and price competition toward performance validation, safety compliance, engineering compatibility, after-sales maintenance, and brand credibility. Companies without real technical capability or product validation will gradually be marginalized.

This report studies the global Photocatalytic Air Purifier production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photocatalytic Air Purifier and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Photocatalytic Air Purifier that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Photocatalytic Air Purifier total production and demand, 2021-2032, (K Units)

Global Photocatalytic Air Purifier total production value, 2021-2032, (USD Million)

Global Photocatalytic Air Purifier production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Photocatalytic Air Purifier consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Photocatalytic Air Purifier domestic production, consumption, key domestic manufacturers and share

Global Photocatalytic Air Purifier production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Photocatalytic Air Purifier production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Photocatalytic Air Purifier production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Photocatalytic Air Purifier market based on the following parameters - company overview, production, value, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include RGF Environmental Group, ActivePure Technologies, Field Controls, Fresh-Aire UV, Air Oasis, Airocide, Molekule, Puraclenz, Airgle, Airpura Industries, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Photocatalytic Air Purifier market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Photocatalytic Air Purifier Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photocatalytic Air Purifier Market, Segmentation by Type:

Portable

Wall-mounted

Ceiling-mounted

Other

Global Photocatalytic Air Purifier Market, Segmentation by Airflow Capacity:

Small Capacity (Below 500 m³/h)

Medium Capacity (500-2,000 m³/h)

Large Capacity (Above 2,000 m³/h)

Global Photocatalytic Air Purifier Market, Segmentation by Product Positioning:

Medical-grade

Commercial-grade

Residential-grade

Other

Global Photocatalytic Air Purifier Market, Segmentation by Application:

Healthcare

Education

Commercial Buildings

Hospitality and Retail

Other

Companies Profiled:

RGF Environmental Group

ActivePure Technologies

Field Controls

Fresh-Aire UV

Air Oasis

Airocide

Molekule

Puraclenz

Airgle

Airpura Industries

Airtecnicos

Nat?oSant?

Fujiko

Andes Electric

Dongguan Lianda Environmental Technology

Dongguan Gute Environmental Technology

Hebei Senmao Medical Device

Key Questions Answered:

1. How big is the global Photocatalytic Air Purifier market?
2. What is the demand of the global Photocatalytic Air Purifier market?
3. What is the year over year growth of the global Photocatalytic Air Purifier market?
4. What is the production and production value of the global Photocatalytic Air Purifier market?
5. Who are the key producers in the global Photocatalytic Air Purifier market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Photocatalytic Air Purifier Introduction
- 1.2 World Photocatalytic Air Purifier Supply & Forecast
 - 1.2.1 World Photocatalytic Air Purifier Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Photocatalytic Air Purifier Production (2021-2032)
 - 1.2.3 World Photocatalytic Air Purifier Pricing Trends (2021-2032)
- 1.3 World Photocatalytic Air Purifier Production by Region (Based on Production Site)
 - 1.3.1 World Photocatalytic Air Purifier Production Value by Region (2021-2032)
 - 1.3.2 World Photocatalytic Air Purifier Production by Region (2021-2032)
 - 1.3.3 World Photocatalytic Air Purifier Average Price by Region (2021-2032)
 - 1.3.4 North America Photocatalytic Air Purifier Production (2021-2032)
 - 1.3.5 Europe Photocatalytic Air Purifier Production (2021-2032)
 - 1.3.6 China Photocatalytic Air Purifier Production (2021-2032)
 - 1.3.7 Japan Photocatalytic Air Purifier Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Photocatalytic Air Purifier Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Photocatalytic Air Purifier Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Photocatalytic Air Purifier Demand (2021-2032)
- 2.2 World Photocatalytic Air Purifier Consumption by Region
 - 2.2.1 World Photocatalytic Air Purifier Consumption by Region (2021-2026)
 - 2.2.2 World Photocatalytic Air Purifier Consumption Forecast by Region (2027-2032)
- 2.3 United States Photocatalytic Air Purifier Consumption (2021-2032)
- 2.4 China Photocatalytic Air Purifier Consumption (2021-2032)
- 2.5 Europe Photocatalytic Air Purifier Consumption (2021-2032)
- 2.6 Japan Photocatalytic Air Purifier Consumption (2021-2032)
- 2.7 South Korea Photocatalytic Air Purifier Consumption (2021-2032)
- 2.8 ASEAN Photocatalytic Air Purifier Consumption (2021-2032)
- 2.9 India Photocatalytic Air Purifier Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Photocatalytic Air Purifier Production Value by Manufacturer (2021-2026)

- 3.2 World Photocatalytic Air Purifier Production by Manufacturer (2021-2026)
- 3.3 World Photocatalytic Air Purifier Average Price by Manufacturer (2021-2026)
- 3.4 Photocatalytic Air Purifier Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Photocatalytic Air Purifier Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Photocatalytic Air Purifier in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Photocatalytic Air Purifier in 2025
- 3.6 Photocatalytic Air Purifier Market: Overall Company Footprint Analysis
 - 3.6.1 Photocatalytic Air Purifier Market: Region Footprint
 - 3.6.2 Photocatalytic Air Purifier Market: Company Product Type Footprint
 - 3.6.3 Photocatalytic Air Purifier Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Photocatalytic Air Purifier Production Value Comparison
 - 4.1.1 United States VS China: Photocatalytic Air Purifier Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Photocatalytic Air Purifier Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Photocatalytic Air Purifier Production Comparison
 - 4.2.1 United States VS China: Photocatalytic Air Purifier Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Photocatalytic Air Purifier Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Photocatalytic Air Purifier Consumption Comparison
 - 4.3.1 United States VS China: Photocatalytic Air Purifier Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Photocatalytic Air Purifier Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Photocatalytic Air Purifier Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Photocatalytic Air Purifier Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Photocatalytic Air Purifier Production Value (2021-2026)

4.4.3 United States Based Manufacturers Photocatalytic Air Purifier Production (2021-2026)

4.5 China Based Photocatalytic Air Purifier Manufacturers and Market Share

4.5.1 China Based Photocatalytic Air Purifier Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Photocatalytic Air Purifier Production Value (2021-2026)

4.5.3 China Based Manufacturers Photocatalytic Air Purifier Production (2021-2026)

4.6 Rest of World Based Photocatalytic Air Purifier Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Photocatalytic Air Purifier Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Photocatalytic Air Purifier Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Photocatalytic Air Purifier Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Photocatalytic Air Purifier Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Portable

5.2.2 Wall-mounted

5.2.3 Ceiling-mounted

5.2.4 Other

5.3 Market Segment by Type

5.3.1 World Photocatalytic Air Purifier Production by Type (2021-2032)

5.3.2 World Photocatalytic Air Purifier Production Value by Type (2021-2032)

5.3.3 World Photocatalytic Air Purifier Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY AIRFLOW CAPACITY

6.1 World Photocatalytic Air Purifier Market Size Overview by Airflow Capacity: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Airflow Capacity

6.2.1 Small Capacity (Below 500 m³/h)

6.2.2 Medium Capacity (500?2,000 m³/h)

6.2.3 Large Capacity (Above 2,000 m³/h)

6.3 Market Segment by Airflow Capacity

6.3.1 World Photocatalytic Air Purifier Production by Airflow Capacity (2021-2032)

6.3.2 World Photocatalytic Air Purifier Production Value by Airflow Capacity
(2021-2032)

6.3.3 World Photocatalytic Air Purifier Average Price by Airflow Capacity (2021-2032)

7 MARKET ANALYSIS BY PRODUCT POSITIONING

7.1 World Photocatalytic Air Purifier Market Size Overview by Product Positioning: 2021
VS 2025 VS 2032

7.2 Segment Introduction by Product Positioning

7.2.1 Medical-grade

7.2.2 Commercial-grade

7.2.3 Residential-grade

7.2.4 Other

7.3 Market Segment by Product Positioning

7.3.1 World Photocatalytic Air Purifier Production by Product Positioning (2021-2032)

7.3.2 World Photocatalytic Air Purifier Production Value by Product Positioning
(2021-2032)

7.3.3 World Photocatalytic Air Purifier Average Price by Product Positioning
(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Photocatalytic Air Purifier Market Size Overview by Application: 2021 VS
2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Healthcare

8.2.2 Education

8.2.3 Commercial Buildings

8.2.4 Hospitality and Retail

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Photocatalytic Air Purifier Production by Application (2021-2032)

8.3.2 World Photocatalytic Air Purifier Production Value by Application (2021-2032)

8.3.3 World Photocatalytic Air Purifier Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 RGF Environmental Group

9.1.1 RGF Environmental Group Details

9.1.2 RGF Environmental Group Major Business

9.1.3 RGF Environmental Group Photocatalytic Air Purifier Product and Services

9.1.4 RGF Environmental Group Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 RGF Environmental Group Recent Developments/Updates

9.1.6 RGF Environmental Group Competitive Strengths & Weaknesses

9.2 ActivePure Technologies

9.2.1 ActivePure Technologies Details

9.2.2 ActivePure Technologies Major Business

9.2.3 ActivePure Technologies Photocatalytic Air Purifier Product and Services

9.2.4 ActivePure Technologies Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 ActivePure Technologies Recent Developments/Updates

9.2.6 ActivePure Technologies Competitive Strengths & Weaknesses

9.3 Field Controls

9.3.1 Field Controls Details

9.3.2 Field Controls Major Business

9.3.3 Field Controls Photocatalytic Air Purifier Product and Services

9.3.4 Field Controls Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Field Controls Recent Developments/Updates

9.3.6 Field Controls Competitive Strengths & Weaknesses

9.4 Fresh-Aire UV

9.4.1 Fresh-Aire UV Details

9.4.2 Fresh-Aire UV Major Business

9.4.3 Fresh-Aire UV Photocatalytic Air Purifier Product and Services

9.4.4 Fresh-Aire UV Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Fresh-Aire UV Recent Developments/Updates

9.4.6 Fresh-Aire UV Competitive Strengths & Weaknesses

9.5 Air Oasis

9.5.1 Air Oasis Details

9.5.2 Air Oasis Major Business

9.5.3 Air Oasis Photocatalytic Air Purifier Product and Services

9.5.4 Air Oasis Photocatalytic Air Purifier Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.5.5 Air Oasis Recent Developments/Updates

9.5.6 Air Oasis Competitive Strengths & Weaknesses

9.6 Airoid

9.6.1 Airoid Details

9.6.2 Airoid Major Business

9.6.3 Airoid Photocatalytic Air Purifier Product and Services

9.6.4 Airoid Photocatalytic Air Purifier Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.6.5 Airoid Recent Developments/Updates

9.6.6 Airoid Competitive Strengths & Weaknesses

9.7 Molekule

9.7.1 Molekule Details

9.7.2 Molekule Major Business

9.7.3 Molekule Photocatalytic Air Purifier Product and Services

9.7.4 Molekule Photocatalytic Air Purifier Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.7.5 Molekule Recent Developments/Updates

9.7.6 Molekule Competitive Strengths & Weaknesses

9.8 Puraclenz

9.8.1 Puraclenz Details

9.8.2 Puraclenz Major Business

9.8.3 Puraclenz Photocatalytic Air Purifier Product and Services

9.8.4 Puraclenz Photocatalytic Air Purifier Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.8.5 Puraclenz Recent Developments/Updates

9.8.6 Puraclenz Competitive Strengths & Weaknesses

9.9 Airgle

9.9.1 Airgle Details

9.9.2 Airgle Major Business

9.9.3 Airgle Photocatalytic Air Purifier Product and Services

9.9.4 Airgle Photocatalytic Air Purifier Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.9.5 Airgle Recent Developments/Updates

9.9.6 Airgle Competitive Strengths & Weaknesses

9.10 Airpura Industries

9.10.1 Airpura Industries Details

9.10.2 Airpura Industries Major Business

9.10.3 Airpura Industries Photocatalytic Air Purifier Product and Services

9.10.4 Airpura Industries Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Airpura Industries Recent Developments/Updates

9.10.6 Airpura Industries Competitive Strengths & Weaknesses

9.11 Airtecnicos

9.11.1 Airtecnicos Details

9.11.2 Airtecnicos Major Business

9.11.3 Airtecnicos Photocatalytic Air Purifier Product and Services

9.11.4 Airtecnicos Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Airtecnicos Recent Developments/Updates

9.11.6 Airtecnicos Competitive Strengths & Weaknesses

9.12 Nat?oSant?

9.12.1 Nat?oSant? Details

9.12.2 Nat?oSant? Major Business

9.12.3 Nat?oSant? Photocatalytic Air Purifier Product and Services

9.12.4 Nat?oSant? Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Nat?oSant? Recent Developments/Updates

9.12.6 Nat?oSant? Competitive Strengths & Weaknesses

9.13 Fujiko

9.13.1 Fujiko Details

9.13.2 Fujiko Major Business

9.13.3 Fujiko Photocatalytic Air Purifier Product and Services

9.13.4 Fujiko Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Fujiko Recent Developments/Updates

9.13.6 Fujiko Competitive Strengths & Weaknesses

9.14 Andes Electric

9.14.1 Andes Electric Details

9.14.2 Andes Electric Major Business

9.14.3 Andes Electric Photocatalytic Air Purifier Product and Services

9.14.4 Andes Electric Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Andes Electric Recent Developments/Updates

9.14.6 Andes Electric Competitive Strengths & Weaknesses

9.15 Dongguan Lianda Environmental Technology

9.15.1 Dongguan Lianda Environmental Technology Details

9.15.2 Dongguan Lianda Environmental Technology Major Business

9.15.3 Dongguan Lianda Environmental Technology Photocatalytic Air Purifier Product and Services

9.15.4 Dongguan Lianda Environmental Technology Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Dongguan Lianda Environmental Technology Recent Developments/Updates

9.15.6 Dongguan Lianda Environmental Technology Competitive Strengths & Weaknesses

9.16 Dongguan Gute Environmental Technology

9.16.1 Dongguan Gute Environmental Technology Details

9.16.2 Dongguan Gute Environmental Technology Major Business

9.16.3 Dongguan Gute Environmental Technology Photocatalytic Air Purifier Product and Services

9.16.4 Dongguan Gute Environmental Technology Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Dongguan Gute Environmental Technology Recent Developments/Updates

9.16.6 Dongguan Gute Environmental Technology Competitive Strengths & Weaknesses

9.17 Hebei Senmao Medical Device

9.17.1 Hebei Senmao Medical Device Details

9.17.2 Hebei Senmao Medical Device Major Business

9.17.3 Hebei Senmao Medical Device Photocatalytic Air Purifier Product and Services

9.17.4 Hebei Senmao Medical Device Photocatalytic Air Purifier Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Hebei Senmao Medical Device Recent Developments/Updates

9.17.6 Hebei Senmao Medical Device Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Photocatalytic Air Purifier Industry Chain

10.2 Photocatalytic Air Purifier Upstream Analysis

10.2.1 Photocatalytic Air Purifier Core Raw Materials

10.2.2 Main Manufacturers of Photocatalytic Air Purifier Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Photocatalytic Air Purifier Production Mode

10.6 Photocatalytic Air Purifier Procurement Model

10.7 Photocatalytic Air Purifier Industry Sales Model and Sales Channels

10.7.1 Photocatalytic Air Purifier Sales Model

10.7.2 Photocatalytic Air Purifier Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Photocatalytic Air Purifier Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Photocatalytic Air Purifier Production Value by Region (2021-2026) & (USD Million)

Table 3. World Photocatalytic Air Purifier Production Value by Region (2027-2032) & (USD Million)

Table 4. World Photocatalytic Air Purifier Production Value Market Share by Region (2021-2026)

Table 5. World Photocatalytic Air Purifier Production Value Market Share by Region (2027-2032)

Table 6. World Photocatalytic Air Purifier Production by Region (2021-2026) & (K Units)

Table 7. World Photocatalytic Air Purifier Production by Region (2027-2032) & (K Units)

Table 8. World Photocatalytic Air Purifier Production Market Share by Region (2021-2026)

Table 9. World Photocatalytic Air Purifier Production Market Share by Region (2027-2032)

Table 10. World Photocatalytic Air Purifier Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Photocatalytic Air Purifier Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Photocatalytic Air Purifier Major Market Trends

Table 13. World Photocatalytic Air Purifier Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Photocatalytic Air Purifier Consumption by Region (2021-2026) & (K Units)

Table 15. World Photocatalytic Air Purifier Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Photocatalytic Air Purifier Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Photocatalytic Air Purifier Producers in 2025

Table 18. World Photocatalytic Air Purifier Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Photocatalytic Air Purifier Producers in 2025

Table 20. World Photocatalytic Air Purifier Average Price by Manufacturer (2021-2026)

& (US\$/Unit)

Table 21. Global Photocatalytic Air Purifier Company Evaluation Quadrant

Table 22. World Photocatalytic Air Purifier Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Photocatalytic Air Purifier Production Site of Key Manufacturer

Table 24. Photocatalytic Air Purifier Market: Company Product Type Footprint

Table 25. Photocatalytic Air Purifier Market: Company Product Application Footprint

Table 26. Photocatalytic Air Purifier Competitive Factors

Table 27. Photocatalytic Air Purifier New Entrant and Capacity Expansion Plans

Table 28. Photocatalytic Air Purifier Mergers & Acquisitions Activity

Table 29. United States VS China Photocatalytic Air Purifier Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Photocatalytic Air Purifier Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Photocatalytic Air Purifier Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Photocatalytic Air Purifier Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Photocatalytic Air Purifier Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Photocatalytic Air Purifier Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Photocatalytic Air Purifier Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Photocatalytic Air Purifier Production Market Share (2021-2026)

Table 37. China Based Photocatalytic Air Purifier Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Photocatalytic Air Purifier Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Photocatalytic Air Purifier Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Photocatalytic Air Purifier Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Photocatalytic Air Purifier Production Market Share (2021-2026)

Table 42. Rest of World Based Photocatalytic Air Purifier Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Photocatalytic Air Purifier Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Photocatalytic Air Purifier Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Photocatalytic Air Purifier Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Photocatalytic Air Purifier Production Market Share (2021-2026)

Table 47. World Photocatalytic Air Purifier Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Photocatalytic Air Purifier Production by Type (2021-2026) & (K Units)

Table 49. World Photocatalytic Air Purifier Production by Type (2027-2032) & (K Units)

Table 50. World Photocatalytic Air Purifier Production Value by Type (2021-2026) & (USD Million)

Table 51. World Photocatalytic Air Purifier Production Value by Type (2027-2032) & (USD Million)

Table 52. World Photocatalytic Air Purifier Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Photocatalytic Air Purifier Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Photocatalytic Air Purifier Production Value by Airflow Capacity, (USD Million), 2021 & 2025 & 2032

Table 55. World Photocatalytic Air Purifier Production by Airflow Capacity (2021-2026) & (K Units)

Table 56. World Photocatalytic Air Purifier Production by Airflow Capacity (2027-2032) & (K Units)

Table 57. World Photocatalytic Air Purifier Production Value by Airflow Capacity (2021-2026) & (USD Million)

Table 58. World Photocatalytic Air Purifier Production Value by Airflow Capacity (2027-2032) & (USD Million)

Table 59. World Photocatalytic Air Purifier Average Price by Airflow Capacity (2021-2026) & (US\$/Unit)

Table 60. World Photocatalytic Air Purifier Average Price by Airflow Capacity (2027-2032) & (US\$/Unit)

Table 61. World Photocatalytic Air Purifier Production Value by Product Positioning, (USD Million), 2021 & 2025 & 2032

Table 62. World Photocatalytic Air Purifier Production by Product Positioning (2021-2026) & (K Units)

Table 63. World Photocatalytic Air Purifier Production by Product Positioning

(2027-2032) & (K Units)

Table 64. World Photocatalytic Air Purifier Production Value by Product Positioning (2021-2026) & (USD Million)

Table 65. World Photocatalytic Air Purifier Production Value by Product Positioning (2027-2032) & (USD Million)

Table 66. World Photocatalytic Air Purifier Average Price by Product Positioning (2021-2026) & (US\$/Unit)

Table 67. World Photocatalytic Air Purifier Average Price by Product Positioning (2027-2032) & (US\$/Unit)

Table 68. World Photocatalytic Air Purifier Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Photocatalytic Air Purifier Production by Application (2021-2026) & (K Units)

Table 70. World Photocatalytic Air Purifier Production by Application (2027-2032) & (K Units)

Table 71. World Photocatalytic Air Purifier Production Value by Application (2021-2026) & (USD Million)

Table 72. World Photocatalytic Air Purifier Production Value by Application (2027-2032) & (USD Million)

Table 73. World Photocatalytic Air Purifier Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Photocatalytic Air Purifier Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. RGF Environmental Group Basic Information, Manufacturing Base and Competitors

Table 76. RGF Environmental Group Major Business

Table 77. RGF Environmental Group Photocatalytic Air Purifier Product and Services

Table 78. RGF Environmental Group Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. RGF Environmental Group Recent Developments/Updates

Table 80. RGF Environmental Group Competitive Strengths & Weaknesses

Table 81. ActivePure Technologies Basic Information, Manufacturing Base and Competitors

Table 82. ActivePure Technologies Major Business

Table 83. ActivePure Technologies Photocatalytic Air Purifier Product and Services

Table 84. ActivePure Technologies Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ActivePure Technologies Recent Developments/Updates
Table 86. ActivePure Technologies Competitive Strengths & Weaknesses
Table 87. Field Controls Basic Information, Manufacturing Base and Competitors
Table 88. Field Controls Major Business
Table 89. Field Controls Photocatalytic Air Purifier Product and Services
Table 90. Field Controls Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Field Controls Recent Developments/Updates
Table 92. Field Controls Competitive Strengths & Weaknesses
Table 93. Fresh-Aire UV Basic Information, Manufacturing Base and Competitors
Table 94. Fresh-Aire UV Major Business
Table 95. Fresh-Aire UV Photocatalytic Air Purifier Product and Services
Table 96. Fresh-Aire UV Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Fresh-Aire UV Recent Developments/Updates
Table 98. Fresh-Aire UV Competitive Strengths & Weaknesses
Table 99. Air Oasis Basic Information, Manufacturing Base and Competitors
Table 100. Air Oasis Major Business
Table 101. Air Oasis Photocatalytic Air Purifier Product and Services
Table 102. Air Oasis Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Air Oasis Recent Developments/Updates
Table 104. Air Oasis Competitive Strengths & Weaknesses
Table 105. Airoid Basic Information, Manufacturing Base and Competitors
Table 106. Airoid Major Business
Table 107. Airoid Photocatalytic Air Purifier Product and Services
Table 108. Airoid Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Airoid Recent Developments/Updates
Table 110. Airoid Competitive Strengths & Weaknesses
Table 111. Molekule Basic Information, Manufacturing Base and Competitors
Table 112. Molekule Major Business
Table 113. Molekule Photocatalytic Air Purifier Product and Services
Table 114. Molekule Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Molekule Recent Developments/Updates
Table 116. Molekule Competitive Strengths & Weaknesses

Table 117. Puraclenz Basic Information, Manufacturing Base and Competitors

Table 118. Puraclenz Major Business

Table 119. Puraclenz Photocatalytic Air Purifier Product and Services

Table 120. Puraclenz Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Puraclenz Recent Developments/Updates

Table 122. Puraclenz Competitive Strengths & Weaknesses

Table 123. Airgle Basic Information, Manufacturing Base and Competitors

Table 124. Airgle Major Business

Table 125. Airgle Photocatalytic Air Purifier Product and Services

Table 126. Airgle Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Airgle Recent Developments/Updates

Table 128. Airgle Competitive Strengths & Weaknesses

Table 129. Airpura Industries Basic Information, Manufacturing Base and Competitors

Table 130. Airpura Industries Major Business

Table 131. Airpura Industries Photocatalytic Air Purifier Product and Services

Table 132. Airpura Industries Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Airpura Industries Recent Developments/Updates

Table 134. Airpura Industries Competitive Strengths & Weaknesses

Table 135. Airtecnicos Basic Information, Manufacturing Base and Competitors

Table 136. Airtecnicos Major Business

Table 137. Airtecnicos Photocatalytic Air Purifier Product and Services

Table 138. Airtecnicos Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Airtecnicos Recent Developments/Updates

Table 140. Airtecnicos Competitive Strengths & Weaknesses

Table 141. Nat?oSant? Basic Information, Manufacturing Base and Competitors

Table 142. Nat?oSant? Major Business

Table 143. Nat?oSant? Photocatalytic Air Purifier Product and Services

Table 144. Nat?oSant? Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Nat?oSant? Recent Developments/Updates

Table 146. Nat?oSant? Competitive Strengths & Weaknesses

Table 147. Fujiko Basic Information, Manufacturing Base and Competitors

Table 148. Fujiko Major Business

Table 149. Fujiko Photocatalytic Air Purifier Product and Services
Table 150. Fujiko Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Fujiko Recent Developments/Updates
Table 152. Fujiko Competitive Strengths & Weaknesses
Table 153. Andes Electric Basic Information, Manufacturing Base and Competitors
Table 154. Andes Electric Major Business
Table 155. Andes Electric Photocatalytic Air Purifier Product and Services
Table 156. Andes Electric Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Andes Electric Recent Developments/Updates
Table 158. Andes Electric Competitive Strengths & Weaknesses
Table 159. Dongguan Lianda Environmental Technology Basic Information, Manufacturing Base and Competitors
Table 160. Dongguan Lianda Environmental Technology Major Business
Table 161. Dongguan Lianda Environmental Technology Photocatalytic Air Purifier Product and Services
Table 162. Dongguan Lianda Environmental Technology Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Dongguan Lianda Environmental Technology Recent Developments/Updates
Table 164. Dongguan Lianda Environmental Technology Competitive Strengths & Weaknesses
Table 165. Dongguan Gute Environmental Technology Basic Information, Manufacturing Base and Competitors
Table 166. Dongguan Gute Environmental Technology Major Business
Table 167. Dongguan Gute Environmental Technology Photocatalytic Air Purifier Product and Services
Table 168. Dongguan Gute Environmental Technology Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Dongguan Gute Environmental Technology Recent Developments/Updates
Table 170. Dongguan Gute Environmental Technology Competitive Strengths & Weaknesses
Table 171. Hebei Senmao Medical Device Basic Information, Manufacturing Base and Competitors
Table 172. Hebei Senmao Medical Device Major Business

Table 173. Hebei Senmao Medical Device Photocatalytic Air Purifier Product and Services

Table 174. Hebei Senmao Medical Device Photocatalytic Air Purifier Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Hebei Senmao Medical Device Recent Developments/Updates

Table 176. Hebei Senmao Medical Device Competitive Strengths & Weaknesses

Table 177. Global Key Players of Photocatalytic Air Purifier Upstream (Raw Materials)

Table 178. Global Photocatalytic Air Purifier Typical Customers

Table 179. Photocatalytic Air Purifier Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Photocatalytic Air Purifier Picture
- Figure 2. World Photocatalytic Air Purifier Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Photocatalytic Air Purifier Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Photocatalytic Air Purifier Production (2021-2032) & (K Units)
- Figure 5. World Photocatalytic Air Purifier Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Photocatalytic Air Purifier Production Value Market Share by Region (2021-2032)
- Figure 7. World Photocatalytic Air Purifier Production Market Share by Region (2021-2032)
- Figure 8. North America Photocatalytic Air Purifier Production (2021-2032) & (K Units)
- Figure 9. Europe Photocatalytic Air Purifier Production (2021-2032) & (K Units)
- Figure 10. China Photocatalytic Air Purifier Production (2021-2032) & (K Units)
- Figure 11. Japan Photocatalytic Air Purifier Production (2021-2032) & (K Units)
- Figure 12. Photocatalytic Air Purifier Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Photocatalytic Air Purifier Consumption (2021-2032) & (K Units)
- Figure 15. World Photocatalytic Air Purifier Consumption Market Share by Region (2021-2032)
- Figure 16. United States Photocatalytic Air Purifier Consumption (2021-2032) & (K Units)
- Figure 17. China Photocatalytic Air Purifier Consumption (2021-2032) & (K Units)
- Figure 18. Europe Photocatalytic Air Purifier Consumption (2021-2032) & (K Units)
- Figure 19. Japan Photocatalytic Air Purifier Consumption (2021-2032) & (K Units)
- Figure 20. South Korea Photocatalytic Air Purifier Consumption (2021-2032) & (K Units)
- Figure 21. ASEAN Photocatalytic Air Purifier Consumption (2021-2032) & (K Units)
- Figure 22. India Photocatalytic Air Purifier Consumption (2021-2032) & (K Units)
- Figure 23. Producer Shipments of Photocatalytic Air Purifier by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Photocatalytic Air Purifier Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Photocatalytic Air Purifier Markets in 2025
- Figure 26. United States VS China: Photocatalytic Air Purifier Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Photocatalytic Air Purifier Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Photocatalytic Air Purifier Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Photocatalytic Air Purifier Production Market Share 2025

Figure 30. China Based Manufacturers Photocatalytic Air Purifier Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Photocatalytic Air Purifier Production Market Share 2025

Figure 32. World Photocatalytic Air Purifier Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Photocatalytic Air Purifier Production Value Market Share by Type in 2025

Figure 34. Portable

Figure 35. Wall-mounted

Figure 36. Ceiling-mounted

Figure 37. Other

Figure 38. World Photocatalytic Air Purifier Production Market Share by Type (2021-2032)

Figure 39. World Photocatalytic Air Purifier Production Value Market Share by Type (2021-2032)

Figure 40. World Photocatalytic Air Purifier Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Photocatalytic Air Purifier Production Value by Airflow Capacity, (USD Million), 2021 & 2025 & 2032

Figure 42. World Photocatalytic Air Purifier Production Value Market Share by Airflow Capacity in 2025

Figure 43. Small Capacity (Below 500 m³/h)

Figure 44. Medium Capacity (500-2,000 m³/h)

Figure 45. Large Capacity (Above 2,000 m³/h)

Figure 46. World Photocatalytic Air Purifier Production Market Share by Airflow Capacity (2021-2032)

Figure 47. World Photocatalytic Air Purifier Production Value Market Share by Airflow Capacity (2021-2032)

Figure 48. World Photocatalytic Air Purifier Average Price by Airflow Capacity (2021-2032) & (US\$/Unit)

Figure 49. World Photocatalytic Air Purifier Production Value by Product Positioning,

(USD Million), 2021 & 2025 & 2032

Figure 50. World Photocatalytic Air Purifier Production Value Market Share by Product Positioning in 2025

Figure 51. Medical-grade

Figure 52. Commercial-grade

Figure 53. Residential-grade

Figure 54. Other

Figure 55. World Photocatalytic Air Purifier Production Market Share by Product Positioning (2021-2032)

Figure 56. World Photocatalytic Air Purifier Production Value Market Share by Product Positioning (2021-2032)

Figure 57. World Photocatalytic Air Purifier Average Price by Product Positioning (2021-2032) & (US\$/Unit)

Figure 58. World Photocatalytic Air Purifier Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Photocatalytic Air Purifier Production Value Market Share by Application in 2025

Figure 60. Healthcare

Figure 61. Education

Figure 62. Commercial Buildings

Figure 63. Hospitality and Retail

Figure 64. Other

Figure 65. World Photocatalytic Air Purifier Production Market Share by Application (2021-2032)

Figure 66. World Photocatalytic Air Purifier Production Value Market Share by Application (2021-2032)

Figure 67. World Photocatalytic Air Purifier Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Photocatalytic Air Purifier Industry Chain

Figure 69. Photocatalytic Air Purifier Procurement Model

Figure 70. Photocatalytic Air Purifier Sales Model

Figure 71. Photocatalytic Air Purifier Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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