

# **Air Purification System Market Forecasts to 2032 – Global Analysis By Product Type (Portable/Standalone Air Purifiers and In-Duct [HVAC] Air Purification Systems), Coverage Area (Small Rooms [Up to 200 Sq. Ft.], Medium Rooms [201–400 Sq. Ft.] and Large Rooms [Above 400 Sq. Ft.]), Technology, Distribution Channel, Application and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Air Purification System Market is accounted for \$28.7 billion in 2025 and is expected to reach \$50.5 billion by 2032 growing at a CAGR of 8.4% during the forecast period. Air purification systems are devices designed to remove pollutants, allergens, and harmful particles from indoor or outdoor air. They use technologies like HEPA filters, activated carbon, UV light, and ionizers to enhance air quality. Rising urbanization, pollution levels, and health awareness are fueling demand. COVID-19 heightened global focus on clean indoor environments. Adoption spans residential, commercial, industrial, and automotive sectors. Ongoing innovations in energy-efficient, portable, and smart-enabled systems further support market growth as air purification becomes integral to health and sustainability.

According to WHO, 99% of the world's population breathes air exceeding WHO guideline levels, contributing to an estimated 6.7 million premature deaths annually and driving household and commercial air purification solutions.

Market Dynamics:

### Driver:

#### Rising pollution levels in urban areas

Escalating air pollution in urban centers is a pivotal driver for the air purification system market. Increased vehicular emissions, industrial activities, and construction dust contribute to deteriorating air quality. This degradation leads to a surge in respiratory ailments, allergies, and other health issues among urban populations. Consequently, there is a heightened demand for air purification systems to mitigate these health risks. Governments and health organizations are also emphasizing the importance of clean air, further propelling market growth.

### Restraint:

#### High cost of advanced systems

The adoption of advanced air purification systems is hindered by their high costs, encompassing initial investment, installation, and maintenance expenses. Technologies such as HEPA filters, UV-C light systems, and smart IoT-enabled purifiers often come with premium pricing. This financial barrier limits accessibility, particularly in developing regions and among price-sensitive consumers. Additionally, the operational costs associated with energy consumption and periodic servicing can deter potential buyers. These economic factors present significant challenges to widespread adoption and market expansion.

### Opportunity:

#### Smart and IoT-enabled purifier adoption

The integration of smart technologies and IoT capabilities into air purifiers presents a significant growth opportunity. Consumers increasingly seek devices that offer remote monitoring, real-time air quality updates, and automation features. Smart purifiers can adjust settings based on environmental data, enhancing efficiency and user convenience. Moreover, connectivity with mobile apps and home automation systems adds value, appealing to tech-savvy consumers. This trend aligns with the broader shift towards smart homes and presents manufacturers with avenues for innovation and differentiation.

### Threat:

## Influx of counterfeit low-quality products

The market faces a significant threat from the proliferation of counterfeit and substandard air purification products. These imitations often lack the efficacy of genuine devices, failing to deliver promised air quality improvements. Consumers may be misled by attractive pricing, leading to health risks and dissatisfaction. Additionally, the presence of such products can tarnish the reputation of reputable brands, eroding consumer trust. Regulatory oversight and consumer awareness are crucial to combat this issue and ensure market integrity.

## Covid-19 Impact:

The COVID-19 pandemic has significantly influenced the air purification system market. With increased awareness of airborne transmission of viruses, there has been a surge in demand for air purifiers, especially in indoor settings. Consumers and businesses alike sought to enhance air quality to mitigate health risks. This heightened demand led to market growth, with new entrants introducing innovative products. However, post-pandemic, some companies faced challenges due to oversupply and shifting consumer priorities, impacting long-term market dynamics.

The portable/standalone air purifiers segment is expected to be the largest during the forecast period

The portable/standalone air purifiers segment is expected to account for the largest market share during the forecast period. These devices offer flexibility and convenience, allowing users to move them between rooms or locations as needed. Their compact design and ease of use make them particularly appealing to urban dwellers and renters. Additionally, advancements in filtration technologies and energy efficiency contribute to their growing popularity. The segment's dominance is further supported by increasing consumer awareness of indoor air quality and the need for affordable air purification solutions.

The large rooms (Above 400 Sq. Ft.) segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the large rooms (above 400 sq. ft.) segment is predicted to witness the highest growth rate, driven by the rising demand for air purifiers capable of servicing larger spaces, such as open-plan homes, offices, and commercial

establishments. Consumers are increasingly seeking high-capacity units that provide comprehensive air purification across expansive areas. Technological advancements in filtration efficiency and energy consumption are making these larger units more accessible and appealing to a broader audience. Consequently, this segment is poised for significant expansion.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, attributed to rapid urbanization, industrial growth, and escalating pollution levels in countries like China, India, and Japan. The region's large population base and increasing health consciousness further drive the demand for air purification systems. Additionally, supportive government policies and initiatives aimed at improving air quality contribute to market growth. The Asia Pacific region's combination of environmental challenges and economic development positions it as a key player in the global air purification market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, fueled by increasing awareness of indoor air quality, rising disposable incomes, and a shift towards healthier lifestyles. Technological advancements and the adoption of smart air purification solutions further accelerate market expansion. Moreover, the region's proactive approach to addressing environmental concerns and enhancing public health infrastructure supports sustained growth in the air purification system market. Consequently, Asia Pacific is set to lead in both market share and growth rate during the forecast period.

Key players in the market

Some of the key players in Air Purification System Market include 3M, Blueair, Camfil, Coway, Daikin Industries, Donaldson Company, Dyson, Eureka Forbes, Honeywell, IQAir, LG Electronics, Mann+Hummel, Panasonic, Philips, Samsung, Sharp, Whirlpool, and Xiaomi.

Key Developments:

In July 2025, Coway launched the Airmega 50, their smallest and most affordable cylindrical air purifier to date for the Australian market, designed for personal spaces

like bedrooms and home offices.

In March 2025, Blueair launched Blue Signature™, their "most powerful, compact & customizable air purifier" featuring advanced 7-stage filtration system and new OdorFence Technology that provides 10X more odor removal than previous models.

In September 2024, Donaldson Company launched filtration services for manufacturers in France, Germany and Austria in Life Sciences sectors including food and beverage markets.

#### Product Types Covered:

Portable/Standalone Air Purifiers

In-Duct (HVAC) Air Purification Systems

#### Coverage Areas:

Small Rooms (Up to 200 Sq. Ft.)

Medium Rooms (201 %- %400 Sq. Ft.)

Large Rooms (Above 400 Sq. Ft.)

#### Technologies Covered:

High-Efficiency Particulate Air (HEPA)

Activated Carbon

Ionic Filters

Ultraviolet (UV) Light Germicidal Irradiation

Photocatalytic Oxidation (PCO)

Ozone Generators

## Other Technologies

### Distribution Channels Covered:

Offline

Online

### Applications Covered:

Residential

Commercial

Industrial

### Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

### **Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Product Analysis
- 3.7 Technology Analysis
- 3.8 Application Analysis
- 3.9 Emerging Markets
- 3.10 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

## **5 GLOBAL AIR PURIFICATION SYSTEM MARKET, BY PRODUCT TYPE**

- 5.1 Introduction
- 5.2 Portable/Standalone Air Purifiers
- 5.3 In-Duct (HVAC) Air Purification Systems

## **6 GLOBAL AIR PURIFICATION SYSTEM MARKET, BY COVERAGE AREA**

- 6.1 Introduction
- 6.2 Small Rooms (Up to 200 Sq. Ft.)
- 6.3 Medium Rooms (201 - 400 Sq. Ft.)
- 6.4 Large Rooms (Above 400 Sq. Ft.)

## **7 GLOBAL AIR PURIFICATION SYSTEM MARKET, BY TECHNOLOGY**

- 7.1 Introduction
- 7.2 High-Efficiency Particulate Air (HEPA)
- 7.3 Activated Carbon
- 7.4 Ionic Filters
- 7.5 Ultraviolet (UV) Light Germicidal Irradiation
- 7.6 Photocatalytic Oxidation (PCO)
- 7.7 Ozone Generators
- 7.8 Other Technologies

## **8 GLOBAL AIR PURIFICATION SYSTEM MARKET, BY DISTRIBUTION CHANNEL**

- 8.1 Introduction
- 8.2 Offline
  - 8.2.1 Specialty Stores
  - 8.2.2 Hypermarkets/Supermarkets
  - 8.2.3 Direct Sales
- 8.3 Online
  - 8.3.1 Company-Owned Websites
  - 8.3.2 E-commerce Platforms

## **9 GLOBAL AIR PURIFICATION SYSTEM MARKET, BY APPLICATION**

- 9.1 Introduction

9.2 Residential

9.3 Commercial

9.3.1 Offices

9.3.2 Hospitals & Healthcare Facilities

9.3.3 Hospitality

9.3.4 Schools and Educational Institutions

9.3.5 Retail Malls & Showrooms

9.3.6 Other Commercial Spaces

9.4 Industrial

9.4.1 Manufacturing Facilities

9.4.2 Food & Beverage Processing

9.4.3 Pharmaceutical & Medical Device Manufacturing

## **10 GLOBAL AIR PURIFICATION SYSTEM MARKET, BY GEOGRAPHY**

10.1 Introduction

10.2 North America

10.2.1 US

10.2.2 Canada

10.2.3 Mexico

10.3 Europe

10.3.1 Germany

10.3.2 UK

10.3.3 Italy

10.3.4 France

10.3.5 Spain

10.3.6 Rest of Europe

10.4 Asia Pacific

10.4.1 Japan

10.4.2 China

10.4.3 India

10.4.4 Australia

10.4.5 New Zealand

10.4.6 South Korea

10.4.7 Rest of Asia Pacific

10.5 South America

10.5.1 Argentina

10.5.2 Brazil

10.5.3 Chile

- 10.5.4 Rest of South America
- 10.6 Middle East & Africa
  - 10.6.1 Saudi Arabia
  - 10.6.2 UAE
  - 10.6.3 Qatar
  - 10.6.4 South Africa
  - 10.6.5 Rest of Middle East & Africa

## **11 KEY DEVELOPMENTS**

- 11.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 11.2 Acquisitions & Mergers
- 11.3 New Product Launch
- 11.4 Expansions
- 11.5 Other Key Strategies

## **12 COMPANY PROFILING**

- 12.1 3M
- 12.2 Blueair
- 12.3 Camfil
- 12.4 Coway
- 12.5 Daikin Industries
- 12.6 Donaldson Company
- 12.7 Dyson
- 12.8 Eureka Forbes
- 12.9 Honeywell
- 12.10 IQAir
- 12.11 LG Electronics
- 12.12 Mann+Hummel
- 12.13 Panasonic
- 12.14 Philips
- 12.15 Samsung
- 12.16 Sharp
- 12.17 Whirlpool
- 12.18 Xiaomi

## List Of Tables

### LIST OF TABLES

Table 1 Global Air Purification System Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Air Purification System Market Outlook, By Product Type (2024-2032) (\$MN)

Table 3 Global Air Purification System Market Outlook, By Portable/Standalone Air Purifiers (2024-2032) (\$MN)

Table 4 Global Air Purification System Market Outlook, By In-Duct (HVAC) Air Purification Systems (2024-2032) (\$MN)

Table 5 Global Air Purification System Market Outlook, By Coverage Area (2024-2032) (\$MN)

Table 6 Global Air Purification System Market Outlook, By Small Rooms (Up to 200 Sq. Ft.) (2024-2032) (\$MN)

Table 7 Global Air Purification System Market Outlook, By Medium Rooms (201 - 400 Sq. Ft.) (2024-2032) (\$MN)

Table 8 Global Air Purification System Market Outlook, By Large Rooms (Above 400 Sq. Ft.) (2024-2032) (\$MN)

Table 9 Global Air Purification System Market Outlook, By Technology (2024-2032) (\$MN)

Table 10 Global Air Purification System Market Outlook, By High-Efficiency Particulate Air (HEPA) (2024-2032) (\$MN)

Table 11 Global Air Purification System Market Outlook, By Activated Carbon (2024-2032) (\$MN)

Table 12 Global Air Purification System Market Outlook, By Ionic Filters (2024-2032) (\$MN)

Table 13 Global Air Purification System Market Outlook, By Ultraviolet (UV) Light Germicidal Irradiation (2024-2032) (\$MN)

Table 14 Global Air Purification System Market Outlook, By Photocatalytic Oxidation (PCO) (2024-2032) (\$MN)

Table 15 Global Air Purification System Market Outlook, By Ozone Generators (2024-2032) (\$MN)

Table 16 Global Air Purification System Market Outlook, By Other Technologies (2024-2032) (\$MN)

Table 17 Global Air Purification System Market Outlook, By Distribution Channel (2024-2032) (\$MN)

Table 18 Global Air Purification System Market Outlook, By Offline (2024-2032) (\$MN)

Table 19 Global Air Purification System Market Outlook, By Specialty Stores

(2024-2032) (\$MN)

Table 20 Global Air Purification System Market Outlook, By  
Hypermarkets/Supermarkets (2024-2032) (\$MN)

Table 21 Global Air Purification System Market Outlook, By Direct Sales (2024-2032)  
(\$MN)

Table 22 Global Air Purification System Market Outlook, By Online (2024-2032) (\$MN)

Table 23 Global Air Purification System Market Outlook, By Company-Owned Websites  
(2024-2032) (\$MN)

Table 24 Global Air Purification System Market Outlook, By E-commerce Platforms  
(2024-2032) (\$MN)

Table 25 Global Air Purification System Market Outlook, By Application (2024-2032)  
(\$MN)

Table 26 Global Air Purification System Market Outlook, By Residential (2024-2032)  
(\$MN)

Table 27 Global Air Purification System Market Outlook, By Commercial (2024-2032)  
(\$MN)

Table 28 Global Air Purification System Market Outlook, By Offices (2024-2032) (\$MN)

Table 29 Global Air Purification System Market Outlook, By Hospitals & Healthcare  
Facilities (2024-2032) (\$MN)

Table 30 Global Air Purification System Market Outlook, By Hospitality (2024-2032)  
(\$MN)

Table 31 Global Air Purification System Market Outlook, By Schools and Educational  
Institutions (2024-2032) (\$MN)

Table 32 Global Air Purification System Market Outlook, By Retail Malls & Showrooms  
(2024-2032) (\$MN)

Table 33 Global Air Purification System Market Outlook, By Other Commercial Spaces  
(2024-2032) (\$MN)

Table 34 Global Air Purification System Market Outlook, By Industrial (2024-2032)  
(\$MN)

Table 35 Global Air Purification System Market Outlook, By Manufacturing Facilities  
(2024-2032) (\$MN)

Table 36 Global Air Purification System Market Outlook, By Food & Beverage  
Processing (2024-2032) (\$MN)

Table 37 Global Air Purification System Market Outlook, By Pharmaceutical & Medical  
Device Manufacturing (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East &  
Africa Regions are also represented in the same manner as above.

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