

Gas Phase Filtration Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F By Type (Combination Filter, Packed Bed Filter), By Media Filter (Activated Carbon, Potassium Permanganate, Blend), By End User (Chemicals & Petrochemicals, Metals & Mining, Food & Beverages, Healthcare, Water & Wastewater, Others), By Region, Competition

<https://marketpublishers.com/r/GF7AB4FF1D60EN.html>

Date: October 2023

Pages: 190

Price: US\$ 4,900.00 (Single User License)

ID: GF7AB4FF1D60EN

Abstracts

Gas phase filtration market is predicted to proliferate during the forecast period 2024-2028F owing to rising awareness toward the impact of both indoor and outdoor air quality, increasing carbon emission among others.

Gas phase filtration is the process of removing dangerous, bothersome, and hazardous gases from the air at workplace. This is true of the air entering plant, which carries both outside pollution and toxins produced by inside activities. The term 'gas phase filtration' describes a technique for cleaning the air around the filter. These filters, which are formed of sodium permanganates or activated carbon and are regarded as the most popular filters among customers, are known to include filter material. These come in the form of pellets and must be promptly replaced once they have absorbed all the impurities.

Due to the industry's growing demand as a result of quick industrialization and rising industrial waste, the global market for gas phase filtration is predicted to experience significant expansion. The global gas phase filtration market is being driven by an increase in product demand-driven on by increased consumer awareness of the

negative effects of poor air quality on human health and a growing focus on the filtration of corrosive, toxic, and odour-producing gases in various sectors. Additionally, the adoption of the system by companies and commercial settings, including computer clean rooms, data centres, museums, and libraries, as well as the surge in acceptance of these filters as air quality tests in several industries stimulate the growth of the gas phase filtration market. The main factors propelling the gas phase filtration market are the utilization of the filtration system in various industries such as chemical, oil and gas, wastewater and sewage treatment for effective clean indoor air of chemicals, odor, and other intangible materials. Gas phase filtration uses specialized filter media and chemical substrate to remove gaseous pollutants from the air. The growth of the gas phase filtration market is accelerated by the implementation of strict environmental regulations, the adoption of the system by business and commercial environments, including computer clean rooms, data centres, museums, and libraries, and the rise in the acceptance of these filters as air quality checks in various industries. The desire for clean air, favorable government laws, increased attention to filtration of corrosive, poisonous, and odor-producing gases in industry, and knowledge of the negative effects of poor indoor and outdoor air quality on human health are factors influencing the market for gas phase filtration. Additionally, the market for gas phase filtration benefits from rising urbanization, population expansion, a rise in air pollution, adoption of modern technology, and a boom in investment. Furthermore, players in the gas phase filtration market are expected to benefit from global industrialization and the continued expansion of regulations aimed at reducing CO₂ emissions during the forecast period of 2021 to 2028.

Environment concerns leading to more stringent regulations for clean air and water

In response to growing environmental pollution and global warming, governments have put in place strict laws. Asthma and other respiratory conditions can be made worse or even develop when people are exposed to nitrogen oxide and sulphur dioxide in excess. The two chemicals also contribute to the formation of acid rain, which damages the ecosystem by reducing the atmospheric concentrations of carbon dioxide (CO₂), sulphur oxides, nitrogen oxides, and particulate matter. The globe is introducing regulations governing automotive emissions. Gas phase filters have the ability to clean the air of volatile organic carbons and gaseous pollutants. The market for filters is also being driven by the need for cleaner energy. Moreover, governments adopting strict regulations for the emission of gases into the environment and encouraging the use of filtration equipment in both industries and households, along with growing concerns about environmental pollution and its harmful effects on human health, are also driving the market's expansion.

For instance:

According to Auto Express, the Euro 6 emissions standard go into effect in mass-produced petrol and diesel automobiles in November 2021. It aimed to reduce the amount of toxic exhaust emissions produced by cars and vans.

The United States Pharmacopeial Convention required frequent particle monitoring and measurements in January 2022 to ensure that regions with the highest potential for risk meet air quality criteria. Compound sterile preparations (CSPs) that have been tainted or improperly prepared are prohibited under USP 797.

The United States Pharmacopeial 797 specifies guidelines to protect patients from harm caused by contaminated or incorrectly manufactured compounded sterile preparations (CSPs),

Increasing awareness toward the impact of both indoor and outdoor air quality

To maintain human activities and support population growth and the economy's rapid development, a vast amount of resources, including food, water, and power, are needed in society. As a result, multiple pollutants were founded. Air pollution is one of the numerous pollution issues that have prompted major concerns around the world. Also, human health can be harmed by the toxins and chemicals in polluted air. To prevent these health issues, people are becoming more conscious of the significance of both indoor and outdoor air quality.

For instance,

In May 2021, the National Library of Medicine released a report on outdoor air quality awareness, perceptions, and behavior among US children aged 12-17 Years. According to the study's results, people are becoming gradually more aware of air quality.

Increasing awareness of air quality problems is crucial for keeping a sustainable lifestyle at the forefront of people's minds. It also offers an opportunity to educate and motivate people to support the preservation of the environment. Education is a crucial instrument for implementing change.

Thus, increasing awareness about the impact of indoor and outdoor air quality among people is expected to drive the growth of the global gas phase filtration market in the coming years.

Shifting inclination toward air quality trends

Lung cancer, heart disease, stroke, and acute and chronic respiratory conditions, including asthma, are all risks that can be decreased by clean air. Heart and respiratory health are improved both in the long and short term by lower air pollution levels. Trends in air quality show that people are becoming increasingly conscious of the need for clean air.

In 2020, the implementation of lockdown norms due to the outbreak of COVID-19 resulted in better air quality on a global scale. As a result, people became more aware of trends in air quality attributable to the benefit of better air quality during lockdown.

For instance,

In June 2022, the US Environmental Protection Agency published a study titled 'National Air Quality: Status and Trends of Key Air Pollutants.' It stated that air pollution emissions still have a big impact on air quality.

Challenges: Fluctuating Prices of Raw Materials

The high cost of R&D, development, and manufacturing accounts for the high price of filtering goods. Customers' choices are impacted by the rising cost burden when they select alternatives to air filtering owing to financial constraints. Manufacturers find it difficult to balance their expenditures for R&D, manufacturing, investments, and other expenses due to the high pricing. Additionally, the supply-chain disruptions caused by the Russia-Ukraine war has resulted in high pricing of raw materials, thereby challenging the growth of the market. Thus, the high cost of raw materials is expected to hamper the growth of the global gas phase filtration market in the coming years.

Market Segmentation

The global gas phase filtration market is segmented into type, media filter, and end

user. Based on type, the market is further segmented into combination filter and packed bed filter. Based on the media filter, the market is segmented into activated carbon, potassium permanganate and blend. Based on end user, the market is segmented into chemicals and petrochemicals, metals and mining, food and beverages, healthcare, water and wastewater, and others. The market analysis also studies the regional segmentation to devise regional market segmentation, divided among North America, Europe, Asia-Pacific, South America, and Middle East & Africa.

Company Profiles

Camfil AB, American Air Filter Company Inc, American Air Filter Company Inc, Freudenberg SE, Parker-Hannifin Corporation, Bry-Air (Asia) Pvt. Ltd, Purafil Inc, Circul-Aire Inc, Kimberly-Clark Corporation, and ProMark Associates Inc are among the major players that are driving the growth of the global gas phase filtration market.

Report Scope:

In this report, the global gas phase filtration market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Gas Phase Filtration Market, By Type:

Combination Filter

Packed Bed Filter

Global Gas Phase Filtration Market, By Media Filter:

Activated Carbon

Potassium Permanganate

Blend

Global Gas Phase Filtration Market, By End User:

Chemicals and Petrochemicals

Metals and Mining

Food and Beverages

Healthcare

Water and Wastewater

Others

Global Gas Phase Filtration Market, By Region:

Asia-Pacific

China

Japan

India

Australia

South Korea

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Spain

Italy

Middle East & Africa

Israel

Qatar

Saudi Arabia

UAE

South America

Brazil

Argentina

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global gas phase filtration market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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