

Global Gas Phase Filtration 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 Gas Phase Filtration market size was valued at US\$ 465 million in 2025 and is forecast to a readjusted size of US\$ 759 million by 2032 with a CAGR of 7.4% during review period.

In 2025, global Gas Phase Filtration production reached approximately 5.62 million units with average price of 80 USD per unit.

Gas phase filtration is a filtration technology that removes harmful gaseous pollutants from air or process airflow through adsorption, chemical absorption, or catalytic reactions. It primarily targets VOCs, acid gases, alkaline gases, ozone, sulfides, nitrogen oxides, and other airborne molecular pollutants. Its core media typically include activated carbon, impregnated activated carbon, activated alumina, and composite chemical media. Common forms include flat-plate, box-type, cylindrical, and deep-bed filters. Unlike particulate filtration, GPR mainly addresses molecular-level contamination and corrosion control, and is widely used in commercial buildings, data centers, semiconductor cleanrooms, museums, wastewater treatment, and industrial exhaust gas treatment.

The upstream of the gas phase filtration industry chain mainly includes suppliers of activated carbon, impregnation agents, alumina, porous carriers, metal or plastic frames, and sealing materials; the midstream includes companies developing media formulations, manufacturing filter elements/filter boxes/deep-bed systems, testing and certification, and system integration; and the downstream covers industries such as HVAC, fresh air systems, data centers, electronics and semiconductors, life sciences, public buildings, wastewater treatment, chemicals, and energy. The core value of the

industry lies not only in the filter media itself, but also in media formulation capabilities, target contaminant matching, life assessment, and on-site monitoring and replacement services. As end customers increase their requirements for AMC, corrosive gas, and odor control, the industry chain is evolving from 'single consumable sales' to a holistic solution of 'monitoring + filter media + replacement services'.

The gas phase filtration market outlook is generally positive, driven by three main factors: First, increasingly stringent indoor air quality regulations are pushing commercial buildings, hospitals, airports, and other settings to increase investment in VOC and odor control. Second, the expansion of data centers, semiconductors, and precision electronics manufacturing makes corrosive gas and air quality control (AMC) a critical requirement. Third, industrial applications are demanding higher standards for wastewater treatment, chemical waste gas, and process gas purification. Future growth in the industry will focus on high-performance composite media, low-pressure-drop, long-life products, intelligent solutions with monitorable lifespans, and customized systems for data centers and high-end manufacturing. The overall market will continue to grow steadily, but competition will shift from simple price competition to competition based on media performance, verification standards, and service capabilities.

This report is a detailed and comprehensive analysis for global Gas Phase Filtration 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 Gas Phase Filtration market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Gas Phase Filtration 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 Gas Phase Filtration 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 Gas Phase Filtration 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 Gas Phase Filtration

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 Gas Phase Filtration 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 Camfil, Daikin, Mann+Hummel, Filtration Group, Nichias, Parker, Freudenberg Filtration Technologies, D-Mark, Inc, Toyobo, Mayair, etc.

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

Market Segmentation

Gas Phase Filtration 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

Activated Carbon Filter

Activated Alumina Filter

Others

Market segment by Function

Voc Filters

Acid Gas Filters

Alkaline Gas Filters

Corrosive Trace Filters

Others

Market segment by Structure

Pleated Filter

Cartridge Filter

Others

Market segment by Application

Industrial Application

Commercial Application

Data Center

Medical Application

Others

Major players covered

Camfil

Daikin

Mann+Hummel

Filtration Group

Nichias

Parker

Freudenberg Filtration Technologies

D-Mark, Inc

Toyobo

Mayair

Suzhou Huatai Airtech Filter

Deltrian International

HS-Luftfilterbau GmbH

Jiangsu Shenda

Cosmos Air Purification & Environmental System

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 Gas Phase Filtration product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gas Phase Filtration, with price, sales quantity, revenue, and global market share of Gas Phase Filtration from 2021 to 2026.

Chapter 3, the Gas Phase Filtration competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gas Phase Filtration 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 Gas Phase Filtration 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 Gas Phase Filtration.

Chapter 14 and 15, to describe Gas Phase Filtration sales channel, distributors, customers, research findings and conclusion.

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