

Global Clean Room Chemical Filter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Clean Room Chemical Filter market size is expected to reach \$ 844 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

Clean room chemical filters are airborne molecular contamination control products designed for semiconductors, displays, data centers, and other highly sensitive controlled environments. Their core function is not particle capture, but the selective removal of acidic gases, alkaline gases, organics, dopant-related molecules, and other trace contaminants in the air, thereby protecting wafers, lithography and metrology equipment, material surfaces, and working environments while reducing defects and improving yield. These products commonly appear under names such as AMC filters, chemical filters, and molecular filters. Their mainstream technical approaches are built around activated carbon, impregnated activated carbon, activated alumina, ion-exchange fibers, or composite adsorbent media, and achieve stable control through tailored media formulations, low-pressure-drop structures, low-outgassing designs, and service-life management. Depending on installation position, they form solutions for MAU and OAC fresh-air sections, RAU recirculation sections, FFU and cleanroom ceiling sections, equipment air inlets, EFEMs, and reticle and wafer storage spaces. As advanced nodes and highly integrated manufacturing continue to progress, suppliers increasingly emphasize on-site AMC monitoring, media selection by contaminant type, structural optimization by service life and energy use, and replacement architectures that are replaceable, regenerable, or modular, so as to balance cleanliness, energy efficiency, maintenance productivity, and waste reduction goals. Their commercial form includes not only standardized box, panel, V-bank, cylinder, and tray-type products, but also integrated services covering AMC sampling, media selection, site verification, scheduled replacement, regeneration and recovery, and system optimization. Their

main customers are wafer fabs, display manufacturers, cleanroom engineering firms, equipment makers, and facility operation teams.

The industry value of clean room chemical filters is rapidly rising from that of a traditional cleanroom supporting consumable to that of a critical control point in advanced manufacturing yield management. Whether it is Entegris providing tool-level AMC filtration for lithography, metrology, CMP, dry etch, and other process equipment, or AAF, Yesiang, and MayAir offering system-level solutions for MAU, RAU, FFU, and localized areas, all of this indicates that these products are now deeply embedded in the supply air, return air, local protection, and equipment air-intake chain of semiconductor fabs. As line widths continue to shrink, process windows narrow, and material systems become more complex, acids, bases, organics, condensable molecules, and dopant-related contaminants in the air are no longer just environmental issues, but process variables that directly affect defects, drift, corrosion, exposure stability, and equipment reliability. Camfil explicitly states that semiconductor facilities need to reduce particle concentrations to ISO Class 1 and AMC to sub-ppb levels, while MayAir clearly describes AMC control as a necessary means to improve yield in advanced processes. This shows that these products have shifted from optional configurations to core infrastructure for high-end production lines. Looking further at the official product layouts of AAF and Entegris, the coverage already spans fresh air, recirculation air, cleanroom ceilings, process equipment, mini-environments, and storage units, showing that demand is moving from isolated protection points toward plant-wide multi-layer coordinated control. Future growth will not come simply from adding more filters, but from the continued increase in the depth, precision, and response speed of microcontamination control in advanced fabs.

From the perspective of product evolution, clean room chemical filters have developed from single filter media into system-level products customized by contaminant type, installation position, service life target, and maintenance method. AAF publicly presents multiple formats including box, canister, panel, tray, and V-bank designs. MayAir clearly differentiates Puro-F for FFU use and Puro-C and Puro-V for MAU and RAU use. Dan-Takuma, GreenFiltec, and Yesiang have further built differentiation through extractable, stackable, regenerative, and modular-maintenance architectures. At the same time, competition has shifted from whether a product can filter at all to whether it can combine high removal performance with low pressure drop, low outgassing, low particle generation, long life, and lower replacement cost, while extending product sales into long-term service through AMC sampling, laboratory analysis, on-site verification, and periodic follow-up. Entegris emphasizes standard media and custom media blends for different tools and contaminants. MayAir discloses engineering benchmarks of initial

efficiency above 90 percent and terminal efficiency generally at 50 percent to 80 percent, and also presents a case in which RC contamination was reduced below 0.1 ppbv with service life reaching three times customer expectations. All of this shows that competition has entered a solution-based and data-driven stage. Combined with Camfil's emphasis on ISO 10121 and ASHRAE 145.2 testing, and the push by Yesiang and GreenFiltrec toward regenerative and modular maintenance, industry barriers and value per application are likely to continue rising.

From a regional perspective, the clean room chemical filter industry has already formed a supply structure distributed across the United States, Europe, Japan, South Korea, and Greater China, with Asian manufacturing clusters driving most of the demand. Entegris, AAF, Camfil, and Purafil represent traditional international suppliers. Nippon Muki and Dan-Takuma have deep experience in ultra-clean environments in Japan. EcoPro HN has incorporated semiconductor and display clean room chemical filtration into its environmental business core in South Korea. Yesiang, GreenFiltrec, and MayAir are closely aligned with the capacity expansion rhythm of wafer fabs, panel makers, and advanced-node facilities in mainland China and Taiwan. More importantly, the industry's growth logic is now being reinforced by green manufacturing and circular economy requirements. GreenFiltrec emphasizes 3R modularization, Yesiang is developing regenerative and reusable structures, and EcoPro HN also positions ESG-oriented products as a research direction. This means future competition will not focus only on filtration performance, but also on total lifecycle cost, waste reduction capability, and on-site response efficiency. Since demand still closely follows wafer fabs, panel plants, and sensitive electronics manufacturing bases, mainland China, Taiwan, South Korea, Japan, and advanced manufacturing clusters in the United States are likely to remain the main demand centers. With data centers, laboratories, and other sensitive environments also beginning to incorporate AMC control, and with more suppliers integrating filtration, monitoring, verification, and operations into unified solutions, the industry outlook is likely to remain positive as long as advanced semiconductors, displays, and other sensitive manufacturing sectors continue to expand.

This report studies the global Clean Room Chemical Filter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Clean Room Chemical Filter 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 Clean Room Chemical Filter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Clean Room Chemical Filter total production and demand, 2021-2032, (K Units)

Global Clean Room Chemical Filter total production value, 2021-2032, (USD Million)

Global Clean Room Chemical Filter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Clean Room Chemical Filter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Clean Room Chemical Filter domestic production, consumption, key domestic manufacturers and share

Global Clean Room Chemical Filter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Clean Room Chemical Filter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Clean Room Chemical Filter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Clean Room Chemical Filter 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 Exyte Technology, Entegris, Camfil, Purafil, AAF International, Nippon Muki Co., Ltd., DAN-TAKUMA Co., Ltd., ECOPRO HN Co., Ltd., YESIANG Enterprise, GreenFiltrec Ltd., 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 Clean Room Chemical Filter 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 Clean Room Chemical Filter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Clean Room Chemical Filter Market, Segmentation by Type:

Chemisorption Filters (Activated Carbon or Aluminas)

Bonded Media Panels (Activated Carbon Formed Into Monolithic (Single-Piece) Panels)

Global Clean Room Chemical Filter Market, Segmentation by Installation Position:

Fresh Air Section Type

Recirculation Air Section Type

Terminal FFU/Cleanroom Ceiling Section Type

Equipment/EFEM/Mini-Environment Type

Global Clean Room Chemical Filter Market, Segmentation by Structural Form:

Panel Type

Box Type

V-Bank Type

Cylinder/Canister Type

Tray/Multi-Tray Type

Global Clean Room Chemical Filter Market, Segmentation by Application:

Central Fresh Air Chemical Filtration

Cleanroom Recirculation Air Chemical Filtration

FFU / Ceiling Terminal Chemical Filtration

Process Tool Inlet Protection

Mini-Environment / Storage Space Protection

Companies Profiled:

Exyte Technology

Entegris

Camfil

Purafil

AAF International

Nippon Muki Co., Ltd.

DAN-TAKUMA Co., Ltd.

ECOPRO HN Co., Ltd.

YESIANG Enterprise

GreenFiltrec Ltd.

MayAir Technology (China) Co., Ltd.

Key Questions Answered:

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

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