

Global Chromatography Membrane Stack Market Growth 2026-2032

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Abstracts

The global Chromatography Membrane Stack market size is predicted to grow from US\$ 384 million in 2025 to US\$ 1109 million in 2032; it is expected to grow at a CAGR of 16.4% from 2026 to 2032.

Chromatography membrane stacks are high-throughput separation media constructed by stacking multiple porous membranes functionalized with ion-exchange, affinity, hydrophobic interaction, or multimodal ligands. These membrane layers are assembled with defined flow channels and support structures and are typically packaged as single-use membrane adsorbers, capsule devices, filter cartridges, or plate-based modules. Their key feature is convective mass transfer, which replaces the diffusion-limited transport in traditional bead-based resins, enabling rapid capture, impurity removal, endotoxin clearance, and purification of viral vectors and nucleic acids under short residence times. Applications include fast process screening, scale-up, and high-flow polishing in biopharmaceutical downstream processing. The estimated gross margin is approximately 60%.

Demand for chromatography membrane stacks is driven by the transition of bioprocessing from traditional packed-bed chromatography toward high-throughput, single-use, and short-cycle workflows. In monoclonal antibody production, membrane adsorbers are widely used for flow-through polishing steps such as removal of host cell proteins, nucleic acids, endotoxins, and viral impurities. For viral vectors, plasmid DNA, and nucleic acid therapeutics, the larger molecular size often limits access to resin pores, making convective membrane transport significantly more efficient than diffusion-based bead resins.

Market expansion is driven not only by direct replacement of column chromatography,

but also by the need for faster process switching, reduced buffer consumption, and improved scalability consistency across multi-product facilities. Leading suppliers remain dominated by companies such as Sartorius, Cytiva, and Merck, while players like Cobetter and Donaldson/Purilogs are expanding in ion-exchange, affinity, and large-scale membrane adsorber segments. Future pricing pressure is expected in standard polishing applications, while higher-margin opportunities are concentrated in high-capacity membranes, specialized ligands, viral vector purification workflows, and nucleic acid manufacturing process packages.

LP Information, Inc. (LPI) ' newest research report, the "Chromatography Membrane Stack Industry Forecast" looks at past sales and reviews total world Chromatography Membrane Stack sales in 2025, providing a comprehensive analysis by region and market sector of projected Chromatography Membrane Stack sales for 2026 through 2032. With Chromatography Membrane Stack sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Chromatography Membrane Stack industry.

This Insight Report provides a comprehensive analysis of the global Chromatography Membrane Stack landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Chromatography Membrane Stack portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Chromatography Membrane Stack market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Chromatography Membrane Stack and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Chromatography Membrane Stack.

This report presents a comprehensive overview, market shares, and growth opportunities of Chromatography Membrane Stack market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Anion Exchange Membrane Stack

Cation Exchange Membrane Stack

Affinity Membrane Stack

Hydrophobic Interaction Membrane Stack

Mixed-Mode Membrane Stack

Other Membrane Stack

Segmentation by Matrix Material:

Cellulose-Based Membrane Stack

Polyethersulfone Membrane Stack

Polyacrylamide Hydrogel Membrane Stack

ePTFE Composite Membrane Stack

Nonwoven Hybrid Membrane Stack

Other Matrix Membrane Stack

Segmentation by Operation Mode:

Flow-Through Polishing Stack

Bind-and-Elute Capture Stack

Rapid Cycling Capture Stack

Hybrid Clarification Stack

Other Operation Mode Stack

Segmentation by Target Biomolecule:

Protein and Antibody Stack

Viral Vector and VLP Stack

Plasmid DNA and mRNA Stack

Oligonucleotide Stack

Impurity Removal Stack

Other Biomolecule Stack

Segmentation by Application:

Monoclonal Antibody Polishing

Viral Vector Purification

Plasmid and mRNA Purification

Vaccine and VLP Processing

Impurity and Endotoxin Removal

Process Development and Screening

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Sartorius

Cytiva

Merck

Cobetter

Donaldson Life Sciences

Gore

Thermo Fisher Scientific

I3 Membrane

Key Questions Addressed in this Report

What is the 10-year outlook for the global Chromatography Membrane Stack market?

What factors are driving Chromatography Membrane Stack market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Chromatography Membrane Stack market opportunities vary by end market size?

How does Chromatography Membrane Stack break out by Type, by Application?

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