

Global Chromatography Membrane Stack 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 Chromatography Membrane Stack market size was valued at US\$ 404 million in 2025 and is forecast to a readjusted size of US\$ 1110 million by 2032 with a CAGR of 15.4% during review period.

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.

This report is a detailed and comprehensive analysis for global Chromatography Membrane Stack 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 Chromatography Membrane Stack market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Chromatography Membrane Stack market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Chromatography Membrane Stack market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Chromatography Membrane Stack market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Chromatography Membrane Stack

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 Chromatography Membrane Stack 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 Sartorius, Cytiva, Merck, Cobetter, Donaldson Life Sciences, Gore, Thermo Fisher Scientific, I3 Membrane, etc.

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

Market Segmentation

Chromatography Membrane Stack 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

Anion Exchange Membrane Stack

Cation Exchange Membrane Stack

Affinity Membrane Stack

Hydrophobic Interaction Membrane Stack

Mixed-Mode Membrane Stack

Other Membrane Stack

Market segment 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

Market segment by Operation Mode

- Flow-Through Polishing Stack
- Bind-and-Elute Capture Stack
- Rapid Cycling Capture Stack
- Hybrid Clarification Stack
- Other Operation Mode Stack

Market segment 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

Market segment by Application

Monoclonal Antibody Polishing

Viral Vector Purification

Plasmid and mRNA Purification

Vaccine and VLP Processing

Impurity and Endotoxin Removal

Process Development and Screening

Major players covered

Sartorius

Cytiva

Merck

Cobetter

Donaldson Life Sciences

Gore

Thermo Fisher Scientific

I3 Membrane

Market segment by region, regional analysis covers

Global Chromatography Membrane Stack Market 2026 by Manufacturers, Regions, Type and Application, Forecast to...

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 Chromatography Membrane Stack product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Chromatography Membrane Stack, with price, sales quantity, revenue, and global market share of Chromatography Membrane Stack from 2021 to 2026.

Chapter 3, the Chromatography Membrane Stack competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Chromatography Membrane Stack 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 Chromatography Membrane Stack 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 Chromatography Membrane Stack.

Chapter 14 and 15, to describe Chromatography Membrane Stack sales channel, distributors, customers, research findings and conclusion.

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