

Desalting and Buffer Exchange Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technique (Filtration, Chromatography, Precipitation), By Product (Kit, Cassettes & Cartridges, Filter Plates, Spin Columns, Membrane Filters, Other Consumables and Accessories), By Application (Bioprocess Applications, Pharmaceutical and Biotechnology Companies, CMOS & CROS, Academic & Research Institutes, Diagnostic Applications), By Region, and By Competition, 2019-2029F

<https://marketpublishers.com/r/D9074BDFDC28EN.html>

Date: May 2024

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: D9074BDFDC28EN

Abstracts

Global Desalting and Buffer Exchange Market was valued at USD 1097.56 million in 2023 and will see an impressive growth in the forecast period at a CAGR of 10.82% through 2029. Desalting and buffer exchange are crucial processes in the fields of biotechnology and healthcare, particularly in the production and purification of biomolecules such as proteins, enzymes, antibodies, and nucleic acids. These processes play a significant role in preparing samples for downstream applications, analytical techniques, and therapeutic formulations. Desalting involves removing salts and other small molecules from a sample or solution, often as a purification step to eliminate excess salts or buffers that may interfere with downstream applications or compromise the stability and activity of biomolecules. On the other hand, buffer exchange entails replacing the existing buffer solution surrounding a biomolecule with a new buffer solution of different composition or pH to optimize conditions for downstream applications such as enzymatic assays, protein purification, and structural

studies.

In protein purification workflows, desalting and buffer exchange are essential steps to remove contaminants, salts, and denaturing agents from crude protein extracts or purification eluates. Purified proteins are often desalted and exchanged into storage buffers to maintain stability and activity during storage and subsequent experiments. Similarly, in nucleic acid research applications such as DNA and RNA purification, sequencing, and amplification, removal of salts and contaminants from nucleic acid samples enhances the accuracy and reliability of downstream analyses such as polymerase chain reaction (PCR), gel electrophoresis, and sequencing reactions.

The biopharmaceutical industry is experiencing significant growth driven by increasing demand for biologics, monoclonal antibodies, vaccines, and gene therapies. Desalting and buffer exchange processes are vital in downstream purification and formulation of biopharmaceutical products, which fuels demand for related technologies and solutions. Technological advancements in biomanufacturing, including chromatography, filtration, and purification technologies, have improved the efficiency, scalability, and cost-effectiveness of desalting and buffer exchange processes in healthcare applications.

Innovations such as single-use technologies, high-throughput screening, and automated systems enable streamlined and flexible bioprocessing workflows, thereby driving the adoption of desalting and buffer exchange solutions in the healthcare industry. Additionally, the shift towards personalized medicine and targeted therapies has led to the development of novel biopharmaceutical products with specific pharmacokinetic profiles and formulations. Desalting and buffer exchange technologies play a crucial role in customizing and optimizing drug formulations to meet patient-specific requirements and therapeutic needs, further driving their adoption in personalized medicine applications.

Key Market Drivers

Advancements in Biomanufacturing Technologies

The demand for biopharmaceuticals, including monoclonal antibodies, therapeutic proteins, vaccines, and gene therapies, has been steadily increasing due to their effectiveness in treating a wide range of diseases and medical conditions. Advancements in biomanufacturing technologies have enabled the production of complex biologics at larger scales and reduced costs, driving the need for efficient desalting and buffer exchange processes to purify and formulate these products.

Traditional batch-based bioprocessing methods are being replaced by continuous manufacturing technologies that offer higher productivity, reduced cycle times, and improved process control. Continuous desalting and buffer exchange processes allow for seamless integration into continuous bioprocessing workflows, enabling real-time monitoring and optimization of product quality and yield. The adoption of single-use bioprocessing technologies has revolutionized the biomanufacturing industry by eliminating the need for cleaning and validation of traditional stainless-steel equipment, reducing the risk of cross-contamination, and increasing manufacturing flexibility. Single-use desalting and buffer exchange systems, such as disposable cassettes, cartridges, and membranes, offer scalability, ease of use, and cost-effectiveness, making them ideal for modern biopharmaceutical production facilities.

Advances in high-throughput screening techniques and process analytics have enabled biomanufacturers to quickly identify optimal conditions for desalting and buffer exchange processes, leading to improved purification efficiency, product quality, and process robustness. Automation and data analytics tools facilitate real-time monitoring and control of critical process parameters, ensuring consistent and reproducible results. Inline dilution and filtration technologies have been integrated into desalting and buffer exchange systems to streamline purification workflows, reduce processing times, and minimize the need for manual intervention. Inline dilution allows for precise control of sample concentration and buffer composition, while filtration technologies enable removal of impurities, aggregates, and particulates, enhancing product purity and safety. Advances in desalting and buffer exchange technologies enable customized formulation and drug delivery strategies tailored to specific patient needs and therapeutic applications. By adjusting buffer conditions, pH, and osmolarity, biopharmaceutical formulations can be optimized for stability, solubility, and bioavailability, improving patient compliance and treatment outcomes. This factor will help in the development of the Global Desalting and Buffer Exchange Market.

Growing Biopharmaceutical Industry

Biopharmaceuticals, which include proteins, monoclonal antibodies, vaccines, and gene therapies, are a rapidly growing segment of the pharmaceutical market. These complex molecules are often produced using recombinant DNA technology in biological systems such as mammalian cell cultures, yeast, or bacteria. Desalting and buffer exchange processes are essential purification steps in the downstream processing of these biologics to remove salts, contaminants, and other impurities, ensuring product quality and safety. The biopharmaceutical industry has a robust pipeline of novel therapeutics and biosimilars targeting a wide range of diseases, including cancer,

autoimmune disorders, infectious diseases, and rare genetic conditions. As biopharmaceutical companies continue to innovate and develop new drugs, there is an increasing demand for efficient and scalable purification technologies, including desalting and buffer exchange, to support the manufacturing of these products at commercial scale. Advances in genomics, proteomics, and personalized medicine have led to the development of targeted therapies and precision medicines tailored to individual patient profiles and disease characteristics. Many of these personalized therapies are biopharmaceuticals that require specialized purification processes to isolate and concentrate therapeutic molecules while removing unwanted components. Desalting and buffer exchange techniques play a critical role in customizing drug formulations and optimizing treatment outcomes for patients.

Biopharmaceutical manufacturers are continuously striving to improve process efficiency, productivity, and cost-effectiveness through bioprocess intensification and optimization strategies. Desalting and buffer exchange technologies are integral parts of these efforts, allowing for the development of streamlined purification workflows, reduction of processing times, and enhancement of product yields and purity levels. Advances in automation, analytics, and process control further enable real-time monitoring and optimization of desalting and buffer exchange processes, ensuring consistent and reproducible results. The increasing outsourcing of biopharmaceutical manufacturing to contract manufacturing organizations (CMOs) and contract development and manufacturing organizations (CDMOs) has contributed to the growing demand for desalting and buffer exchange services. CMOs/CDMOs offer specialized expertise, infrastructure, and capacity for the production and purification of biologics, providing biopharmaceutical companies with flexible and cost-effective solutions to meet their manufacturing needs. This factor will pace up the demand of the Global Desalting and Buffer Exchange Market.

Increasing Applications in Industrial Process

Technological innovations and advancements in desalting and buffer exchange processes developed for industrial applications, such as water treatment, food processing, and biotechnology, can be adapted and transferred to healthcare settings. For example, advancements in membrane technologies used for water desalination can be leveraged to improve the efficiency and performance of membrane-based separation techniques in biopharmaceutical purification. Industrial processes often focus on improving efficiency, reducing costs, and optimizing process parameters. As desalting and buffer exchange techniques become more refined and cost-effective in industrial applications, these advancements can be translated

int%li%healthcare settings, enabling biopharmaceutical manufacturers t%li%streamline purification workflows, increase process yields, and reduce production costs.

Industrial-scale desalting and buffer exchange processes can provide valuable insights int%li%scaling up biopharmaceutical production and manufacturing processes.

Techniques and strategies developed for large-scale industrial applications can help biopharmaceutical companies overcome scalability challenges and implement efficient desalting and buffer exchange solutions at commercial production scales, ensuring consistent and reproducible product quality. Industrial processes are subject t%li%rigorous quality assurance standards and regulatory requirements t%li%ensure product safety, quality, and compliance with industry regulations. By leveraging best practices and quality control measures from industrial settings, healthcare organizations can enhance their desalting and buffer exchange processes t%li%meet regulatory requirements and maintain high standards of product quality and safety in biopharmaceutical manufacturing. Collaboration between industrial sectors and healthcare organizations can facilitate technology transfer and knowledge exchange, leading t%li%innovations and advancements in desalting and buffer exchange techniques that benefit both industries. Collaborative research and development initiatives enable the adaptation of industrial-scale technologies and methodologies t%li%address specific challenges and requirements in healthcare applications, driving continuous improvement and innovation in biopharmaceutical purification processes. This factor will accelerate the demand of the Global Desalting and Buffer Exchange Market.

Key Market Challenges

High Energy Consumption

Desalination processes are employed for various purposes, including the purification of water for pharmaceutical manufacturing, laboratory research, and medical device production. Desalination methods such as reverse osmosis (RO) and distillation require substantial amounts of energy t%li%remove salts and impurities from water, making them cost-intensive and environmentally taxing processes. Buffer exchange processes in healthcare, particularly in biopharmaceutical manufacturing, involve the removal of unwanted salts and molecules from protein or nucleic acid samples and their replacement with a desired buffer solution. Techniques such as dialysis and chromatography, while effective, can als%li%be energy-intensive, especially if performed on a large scale. The high energy consumption associated with desalination and buffer exchange processes contributes significantly t%li%operational costs in

healthcare facilities and pharmaceutical manufacturing plants. These costs can impact the overall affordability and accessibility of healthcare services, particularly in regions where energy prices are high or unstable. Energy-intensive desalination and buffer exchange processes contribute to environmental degradation and climate change by increasing greenhouse gas emissions and resource depletion. The reliance on fossil fuels in power desalination plants and buffer exchange equipment exacerbates environmental pollution and ecosystem disruption, posing risks to public health and ecological balance. In an era of growing awareness of sustainability and environmental responsibility, the healthcare industry faces increasing pressure to adopt energy-efficient technologies and practices that minimize the carbon footprint and ecological impact of desalination and buffer exchange processes. Balancing the need for high-quality water and purified samples with the imperative of environmental sustainability is a key challenge for healthcare organizations and biopharmaceutical companies.

Cost and Affordability

The initial capital investment required for setting up desalination and buffer exchange facilities can be substantial. This includes the procurement of specialized equipment, such as reverse osmosis membranes, chromatography columns, and filtration systems, as well as the construction of infrastructure to support these processes. High capital costs can act as a barrier to entry for healthcare facilities, research laboratories, and biopharmaceutical companies, particularly in resource-constrained environments. Beyond the initial investment, ongoing operating expenses associated with desalination and buffer exchange processes can be considerable. These expenses include energy consumption, maintenance and servicing of equipment, procurement of consumables and reagents, and labor costs. Healthcare organizations and biopharmaceutical manufacturers must allocate financial resources to cover these operational costs, which can strain budgets and impact overall affordability. Consumables and consumable supplies used in desalination and buffer exchange processes, such as membranes, resins, buffers, and solvents, contribute to overall process costs. The prices of these consumables can vary depending on factors such as quality, purity, and supplier, and can significantly impact the cost-effectiveness of desalting and buffer exchange operations. In the biopharmaceutical industry, desalting and buffer exchange processes are essential for the purification and formulation of therapeutic proteins, antibodies, and nucleic acids. However, the high costs associated with these processes can impact the economic viability of biopharmaceutical production, particularly for small and medium-sized enterprises (SMEs) and companies operating in competitive markets. Cost considerations influence decisions regarding process optimization, scale-up strategies, and outsourcing options.

Key Market Trends

Shift towards Renewable Energy

The desalination process, particularly through methods like reverse osmosis, is energy-intensive and often relies on fossil fuels, contributing to greenhouse gas emissions and environmental degradation. By transitioning to renewable energy sources such as solar, wind, and hydroelectric power, healthcare facilities can significantly reduce their carbon footprint and environmental impact associated with desalination and buffer exchange operations. Renewable energy sources are inherently sustainable and have lower environmental impacts compared to fossil fuels. Solar and wind power, for example, are clean and abundant sources of energy that can be harnessed without producing greenhouse gas emissions or depleting finite resources. By embracing renewable energy technologies, healthcare facilities can promote environmental sustainability and contribute to global efforts to mitigate climate change and protect natural ecosystems. While the initial investment in renewable energy infrastructure may be significant, the long-term cost savings and economic benefits can be substantial. Renewable energy systems, once installed, have lower operating and maintenance costs compared to conventional fossil fuel-based power generation. Additionally, renewable energy incentives, tax credits, and favorable financing options may further offset the upfront costs, making renewable energy solutions financially attractive for healthcare facilities seeking to reduce energy expenses and enhance financial resilience. Renewable energy sources offer greater energy independence and resilience for healthcare facilities, reducing reliance on external energy suppliers and mitigating the risks associated with energy price volatility and supply disruptions. Distributed renewable energy systems, such as rooftop solar panels and onsite wind turbines, empower healthcare facilities to generate their own clean energy and become more self-sufficient in meeting their power needs, even during grid outages or emergencies.

Segmental Insights

Techniques Insights

Based on the category of technique, filtration segment dominates the global Desalting and Buffer Exchange Market during the forecast period. Filtration methods are widely applicable across industries like biotechnology, pharmaceuticals, food and beverage, and water treatment, ensuring a broad market and ongoing demand for desalting and

buffer exchange solutions. Techniques such as ultrafiltration and microfiltration effectively remove salts and small molecules while preserving desired biomolecules. Their gentle processing minimizes risks to sensitive substances like proteins and nucleic acids, making them appealing for biopharmaceutical and biotechnology applications. Additionally, filtration technologies offer scalability and high throughput, catering to both laboratory research and industrial production needs. They seamlessly integrate into automated workflows, providing enhanced process control and efficiency. Furthermore, filtration-based solutions often present cost advantages over alternatives like chromatography, making them economically viable for research and production environments, thus maintaining their market dominance.

Product Insights

The Cassettes & Cartridges segment is projected to experience significant growth in the Global Desalting and Buffer Exchange Market during the forecast period. Cassettes and cartridges offer a user-friendly and convenient solution for desalting and buffer exchange processes. They are pre-packed with desalting and buffer exchange resins, eliminating the need for time-consuming packing and column preparation steps. Users can simply connect the cassettes or cartridges to chromatography systems or purification setups, making them ideal for laboratory-scale and small-scale bioprocessing applications. While initially popular in laboratory settings, cassettes and cartridges are increasingly being adopted for larger-scale bioprocess applications due to their scalability. Manufacturers offer a range of cassette and cartridge sizes with varying bed volumes and resin capacities, allowing users to scale up their purification processes as needed without significant modifications to equipment or infrastructure. Cassettes and cartridges offer cost-effective solutions for desalting and buffer exchange compared to traditional column chromatography methods. They eliminate the need for column packing materials and reduce solvent consumption, resulting in lower operating costs and improved process efficiency. Additionally, the disposable nature of cassettes and cartridges minimizes the risk of cross-contamination and reduces the need for cleaning and validation procedures, further lowering overall costs. Cassettes and cartridges are designed to provide high purification efficiency and reproducibility, ensuring consistent and reliable results across multiple purification runs. They feature optimized resin geometries and flow paths, allowing for efficient mass transfer and uniform sample distribution, which is critical for achieving high-resolution separations and purification of biomolecules. Cassettes and cartridges offer flexibility and versatility in terms of application and compatibility with different chromatography systems and purification techniques. They can be used for a wide range of desalting and buffer exchange applications, including protein purification,

nucleic acid purification, and sample preparation for analytical techniques such as mass spectrometry and high-performance liquid chromatography (HPLC).

Regional Insights

North America emerged as the dominant region in the Global Desalting and Buffer Exchange Market in 2023. North America, particularly the United States, has been at the forefront of technological innovation in desalination and buffer exchange processes. Research institutions, universities, and private companies in the region have invested heavily in developing advanced desalination technologies, such as reverse osmosis and membrane distillation, which have significantly improved efficiency and lowered costs. Despite being a relatively water-rich region compared to others, certain parts of North America, such as the southwestern United States and parts of Mexico, face water scarcity issues, particularly in arid and semi-arid regions. Desalination offers a viable solution to supplement freshwater supplies in areas where traditional water sources are limited or overexploited. North America has seen substantial investment in desalination infrastructure, including the construction of large-scale desalination plants along coastal regions. These investments have been driven by the need to diversify water supplies and ensure water security in the face of growing population demands and climate variability.

By Technique By Product By Application By Region

Filtration

Chromatography

Precipitation %li%Kit

Cassettes & Cartridges

Filter Plates

Spin Columns

Membrane Filters

Other Consumables and Accessories %li%Bioprocess Applications

Pharmaceutical and Biotechnology Companies

CMOS & CROS

Academic & Research Institutes

Diagnostic Applications %li%North America

Europe

Asia-Pacific

South America

Middle East & Africa

Report Scope:

In this report, the Global Desalting and Buffer Exchange Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Desalting and Buffer Exchange Market, By Technique:

Filtration

Chromatography

Precipitation

Desalting and Buffer Exchange Market, By Product:

Kit

Cassettes & Cartridges

Filter Plates

Spin Columns

Membrane Filters

Other Consumables and Accessories

Desalting and Buffer Exchange Market, By Application:

Bioprocess Applications

Pharmaceutical and Biotechnology Companies

CMOS & CROS

Academic & Research Institutes

Diagnostic Applications

Desalting and Buffer Exchange Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

France

Italy

Spain

Asia-Pacific

China

Japan

India

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Desalting and Buffer Exchange Market.

Available Customizations:

Global Desalting and Buffer Exchange market report with the given market data, Tech Sci 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL DESALTING AND BUFFER EXCHANGE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Technique (Filtration, Chromatography, Precipitation)
 - 5.2.2. By Product (Kit, Cassettes & Cartridges, Filter Plates, Spin Columns, Membrane Filters, Other Consumables and Accessories)

5.2.3. By Application (Bioprocess Applications, Pharmaceutical and Biotechnology Companies, CMOS & CROS, Academic & Research Institutes, Diagnostic Applications)

5.2.4. By Region

5.2.5. By Company (2023)

5.3. Market Map

6. NORTH AMERICA DESALTING AND BUFFER EXCHANGE MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Technique

6.2.2. By Product

6.2.3. By Application

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Desalting and Buffer Exchange Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Technique

6.3.1.2.2. By Product

6.3.1.2.3. By Application

6.3.2. Canada Desalting and Buffer Exchange Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Technique

6.3.2.2.2. By Product

6.3.2.2.3. By Application

6.3.3. Mexico Desalting and Buffer Exchange Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Technique

6.3.3.2.2. By Product

6.3.3.2.3. By Application

7. EUROPE DESALTING AND BUFFER EXCHANGE MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Technique

7.2.2. By Product

7.2.3. By Application

7.2.4. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Desalting and Buffer Exchange Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Technique

7.3.1.2.2. By Product

7.3.1.2.3. By Application

7.3.2. United Kingdom Desalting and Buffer Exchange Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Technique

7.3.2.2.2. By Product

7.3.2.2.3. By Application

7.3.3. Italy Desalting and Buffer Exchange Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Technique

7.3.3.2.2. By Product

7.3.3.2.3. By Application

7.3.4. France Desalting and Buffer Exchange Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Technique

7.3.4.2.2. By Product

7.3.4.2.3. By Application

7.3.5. Spain Desalting and Buffer Exchange Market Outlook

7.3.5.1. Market Size & Forecast

- 7.3.5.1.1. By Value
- 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Technique
 - 7.3.5.2.2. By Product
 - 7.3.5.2.3. By Application

8. ASIA-PACIFIC DESALTING AND BUFFER EXCHANGE MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Technique
 - 8.2.2. By Product
 - 8.2.3. By Application
 - 8.2.4. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Desalting and Buffer Exchange Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Technique
 - 8.3.1.2.2. By Product
 - 8.3.1.2.3. By Application
 - 8.3.2. India Desalting and Buffer Exchange Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Technique
 - 8.3.2.2.2. By Product
 - 8.3.2.2.3. By Application
 - 8.3.3. Japan Desalting and Buffer Exchange Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Technique
 - 8.3.3.2.2. By Product
 - 8.3.3.2.3. By Application
 - 8.3.4. South Korea Desalting and Buffer Exchange Market Outlook
 - 8.3.4.1. Market Size & Forecast

- 8.3.4.1.1. By Value
- 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Technique
 - 8.3.4.2.2. By Product
 - 8.3.4.2.3. By Application
- 8.3.5. Australia Desalting and Buffer Exchange Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Technique
 - 8.3.5.2.2. By Product
 - 8.3.5.2.3. By Application

9. SOUTH AMERICA DESALTING AND BUFFER EXCHANGE MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Technique
 - 9.2.2. By Product
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Desalting and Buffer Exchange Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Technique
 - 9.3.1.2.2. By Product
 - 9.3.1.2.3. By Application
 - 9.3.2. Argentina Desalting and Buffer Exchange Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Technique
 - 9.3.2.2.2. By Product
 - 9.3.2.2.3. By Application
 - 9.3.3. Colombia Desalting and Buffer Exchange Market Outlook
 - 9.3.3.1. Market Size & Forecast

- 9.3.3.1.1. By Value
- 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Technique
 - 9.3.3.2.2. By Product
 - 9.3.3.2.3. By Application

10. MIDDLE EAST AND AFRICA DESALTING AND BUFFER EXCHANGE MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Technique
 - 10.2.2. By Product
 - 10.2.3. By Application
 - 10.2.4. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Desalting and Buffer Exchange Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Technique
 - 10.3.1.2.2. By Product
 - 10.3.1.2.3. By Application
 - 10.3.2. Saudi Arabia Desalting and Buffer Exchange Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Technique
 - 10.3.2.2.2. By Product
 - 10.3.2.2.3. By Application
 - 10.3.3. UAE Desalting and Buffer Exchange Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Technique
 - 10.3.3.2.2. By Product
 - 10.3.3.2.3. By Application

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. PORTER'S FIVE FORCES ANALYSIS

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Product

14. COMPETITIVE LANDSCAPE

- 14.1. Thermo Fisher Scientific, Inc.
 - 14.1.1. Business Overview
 - 14.1.2. Company Snapshot
 - 14.1.3. Products & Services
 - 14.1.4. Financials (As Reported)
 - 14.1.5. Recent Developments
 - 14.1.6. Key Personnel Details
 - 14.1.7. SWOT Analysis
- 14.2. Avantor Inc.
- 14.3. Bio-Rad Laboratories Inc.
- 14.4. Merck KgaA
- 14.5. Danaher Corporation
- 14.6. Repligen Corporation
- 14.7. Agilent Technologies Inc.
- 14.8. Biotage AB
- 14.9. Norgen Biotek Corp
- 14.10. Sartorius AG

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

I would like to order

Product name: Desalting and Buffer Exchange Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technique (Filtration, Chromatography, Precipitation), By Product (Kit, Cassettes & Cartridges, Filter Plates, Spin Columns, Membrane Filters, Other Consumables and Accessories), By Application (Bioprocess Applications, Pharmaceutical and Biotechnology Companies, CMOS & CROS, Academic & Research Institutes, Diagnostic Applications), By Region, and By Competition, 2019-2029F

Product link: <https://marketpublishers.com/r/D9074BDFDC28EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/D9074BDFDC28EN.html>