

Tangential Flow Filtration Market Report by Product (Single-Use Tangential Flow Filtration Systems, Reusable Tangential Flow Filtration Systems, Membrane Filters, Filtration Accessories), Technology (Microfiltration, Ultrafiltration, Reverse Osmosis, Nano Filtration), Application (Bioprocess Applications, Viral Vector and Vaccine Purification, and Others), End User (Pharmaceutical and Biotechnological Companies, Academic and Research Institutes, Contract Research Organizations), and Region 2024-2032

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Abstracts

The global tangential flow filtration market size reached US\$ 1.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 2.1 Billion by 2032, exhibiting a growth rate (CAGR) of 6.2% during 2024-2032.

Tangential flow filtration (TFF) is a rapid, efficient, and scalable method of separating and purifying biomolecules. It can desalinate and concentrate proteins, peptides, and nucleic acids, remove polyvinyl alcohol (PVA) remains, and fractionate dilute protein mixtures. It is used in immunology, biochemistry, protein chemistry, molecular biology, and microbiology to recover bacterial cultures, viruses, and antibodies recombinant proteins from cell culture media. In addition, as it is economical and easy to use, it is widely utilized in harvesting cell suspensions and clarifying fermentation broths and cell lysates.

Tangential Flow Filtration Market Trends:

Biopharmaceuticals have few side effects, and they can be altered according to specific medical requirements of the patients compared to conventional drugs. This, in confluence with a significant rise in the demand for biopharmaceuticals on account of the emerging trend of personalized treatments, represents one of the key factors bolstering the market growth. This can also be attributed to the growing prevalence of acute and chronic diseases and easy access to medical facilities worldwide. Moreover, the growing geriatric population, in confluence with the increasing expenditure on healthcare infrastructure by governing agencies of numerous countries, is contributing to market growth. Apart from this, automated single-use TFF systems are gaining immense traction across the globe as they increase flexibility and reduce process time, cross-contamination, cost, and cleaning requirements. Furthermore, the outbreak of coronavirus disease (COVID-19) and the urgent need to develop potential treatment are catalyzing the demand for TFF devices to collect environmental samples and fractionate virus particles. Besides this, a considerable rise in the number of research and development (R&D) activities to develop novel techniques is anticipated to provide lucrative opportunities to market players.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global tangential flow filtration market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product, technology, application and end user.

Breakup by Product:

Single-Use Tangential Flow Filtration Systems

Reusable Tangential Flow Filtration Systems

Membrane Filters

Filtration Accessories

Breakup by Technology:

Microfiltration

Ultrafiltration

Reverse Osmosis

Nano Filtration

Breakup by Application:

Bioprocess Applications

Upstream Processing

Downstream Processing

Viral Vector and Vaccine Purification

Others

Breakup by End User:

Pharmaceutical and Biotechnological Companies

Academic and Research Institutes

Contract Research Organizations

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Alfa Laval AB, Andritz AG, Cole-Parmer Instrument Company LLC, Danaher Corporation, General Electric Company, Koch Separation Solutions (Koch Industries Inc.), Merck KGaA, Novasep, Parker-Hannifin Corporation, Repligen Corporation, Sartorius AG, Solaris Biotechnology Srl and Synder Filtration Inc.

Key Questions Answered in This Report:

How has the global tangential flow filtration market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global tangential flow filtration market?

What are the key regional markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global tangential flow filtration market and who are the key players?

What is the degree of competition in the industry?

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