

Global Cell Perfusion Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cell Perfusion Systems market size is expected to reach \$ 197 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global Cell Perfusion Systems production reached 34,093 units, the average price was 3,290 US\$/Unit. Cell perfusion systems represent an advanced cell culture technology platform designed for continuous culture and high-density expansion. By continuously replenishing the culture environment with fresh medium while simultaneously removing metabolic waste, excess nutrients, and a portion of the spent culture fluid, these systems enable stable, long-term cell growth and highly efficient production. A typical system comprises cell culture vessels, bioreactors, cell retention devices (such as hollow-fiber filters, tangential flow filtration [TFF] units, or alternating tangential flow [ATF] systems), medium supply and waste removal modules, sensor monitoring systems, and automated control software. Compared to traditional batch and fed-batch cultures, perfusion systems maintain a more stable cellular environment, resulting in higher cell densities, extended culture durations, and increased volumetric product yields. This technology is widely applied in the production of monoclonal antibodies, recombinant proteins, vaccines, viral vectors, and cell therapies, as well as in stem cell culture and continuous biomanufacturing. As biopharmaceutical companies increasingly demand higher production efficiency, consistent quality, and manufacturing flexibility, cell perfusion systems are emerging as critical infrastructure for next-generation high-density cell culture and continuous manufacturing processes, driving the evolution of biomanufacturing toward automation, intelligence, and scalability.

Driven by advancements in continuous biopharmaceutical manufacturing, the expansion of the cell therapy industry, the demand for high-yield antibody drug production, and CDMO capacity upgrades, cell perfusion systems are emerging as a key technological

direction in advanced biomanufacturing. Current opportunities are primarily concentrated in areas such as monoclonal antibodies, recombinant proteins, vaccines, gene therapy, CAR-T cell therapy, stem cell expansion, and the production of personalized cell products. Compared to traditional batch culture methods, cell perfusion systems enhance cell viability, extend culture durations, and increase volumetric productivity by continuously replenishing nutrients and removing metabolic waste; consequently, they hold significant potential for the production of high-value biopharmaceuticals. Core industry competitiveness is defined by capabilities in cell retention technologies (e.g., ATF, TFF, hollow fibers), high-density culture process optimization, bioreactor design, automated control systems, online monitoring, and integration with downstream purification processes. Key industry challenges include high equipment costs, lengthy process development cycles, limited adaptability across different cell types, and difficulties in maintaining contamination control and quality consistency during continuous operation; additionally, companies face technical and validation hurdles when transitioning from traditional batch production to continuous manufacturing models. To address these issues, the industry is leveraging single-use systems, modular equipment, smart sensors, digital process control, and AI-assisted process optimization to lower barriers to adoption. As the concept of continuous biomanufacturing matures, cell perfusion systems will evolve toward greater automation, intelligence, high-throughput capabilities, and scalability, serving as a critical technological platform for enhancing efficiency, reducing costs, and increasing production flexibility in future biopharmaceutical manufacturing.

This report studies the global Cell Perfusion Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cell Perfusion Systems 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 Cell Perfusion Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cell Perfusion Systems total production and demand, 2021-2032, (Units)

Global Cell Perfusion Systems total production value, 2021-2032, (USD Million)

Global Cell Perfusion Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Cell Perfusion Systems consumption by region & country, CAGR, 2021-2032 &

(Units)

U.S. VS China: Cell Perfusion Systems domestic production, consumption, key domestic manufacturers and share

Global Cell Perfusion Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Cell Perfusion Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Cell Perfusion Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Cell Perfusion Systems 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 Cytiva, Merck, Sartorius, Getinge, Corning, Terumo BCT, Elveflow, Eppendorf AG, PBS Biotech, Inc., Precigenome, 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 Cell Perfusion Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Cell Perfusion Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cell Perfusion Systems Market, Segmentation by Type:

Recirculating Systems

Non-Recirculating Systems

Global Cell Perfusion Systems Market, Segmentation by Scale:

Small Scale (?100 Liters)

Mid-Scale (100 to 1,000 Liters)

Large Scale (>1,000 Liters)

Global Cell Perfusion Systems Market, Segmentation by Technology:

ATF-based Perfusion System

TFF-based Perfusion System?

Others

Global Cell Perfusion Systems Market, Segmentation by Application:

Biopharmaceutical

3D Cell Culture

Occupational Health Support

Scientific Research

Others

Companies Profiled:

Cytiva

Merck

Sartorius

Gefinge

Corning

Terumo BCT

Elveflow

Eppendorf AG

PBS Biotech, Inc.

Precigenome

Takasago Electric

ZETA

Biolink

Cyto Niche

Key Questions Answered:

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

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