

Blood Purification Equipment Market Size to Reach \$23.94 Billion by 2027, Growing at a CAGR of 5.6%

Blood purification equipment market size was evaluated at \$14.62 billion in 2019, and is estimated to garner \$23.93 billion by 2027, registering a CAGR of 5.6%

WILMINGTON, DE, UNITED STATES, December 6, 2024 /EINPresswire.com/ -- The [blood purification equipment market](#) has emerged as a vital segment of the healthcare industry, driven by the increasing prevalence of chronic diseases, advancements in medical technology, and the rising demand for effective blood purification techniques.

Valued at \$14.62 billion in 2019, the blood purification equipment market is projected to reach \$23.93 billion by 2027, growing at a CAGR of 5.6% from 2020 to 2027. This report explores the factors influencing market growth, key trends, challenges, and opportunities, providing a detailed outlook for the future of the industry.

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What is Blood Purification?

Blood purification refers to a process where blood is passed through external equipment to remove toxins, impurities, and pathogenic agents, then returned to the body. This method is commonly used in treating conditions refractory to conventional therapies, such as drug administration or surgery.

Key Techniques in Blood Purification

1. Filtration
2. Dialysis
3. Adsorption

Among these, hemodialysis is the most prevalent application, particularly for patients suffering from end-stage renal disease (ESRD) or chronic kidney diseases (CKDs). The growing demand for advanced devices and the need for continuous blood purification are driving research and



Blood Purification Equipment Market Study Report

development in this field.

Blood Purification Equipment Market Drivers

1. Rising Prevalence of Kidney Diseases

Chronic kidney disease (CKD) affects approximately 10% of the global population, according to the National Kidney Foundation. As dialysis is a critical treatment for kidney failure, the demand for blood purification equipment is on the rise.

- Impact on Renal Segment: Renal diseases accounted for the largest market share in 2019 and are projected to grow significantly during the forecast period.

2. Advancements in Portable Devices

Portable blood purification equipment is revolutionizing the market. These devices offer:

- Mobility for use across multiple care units.
- Space-saving designs compared to stationary systems.

The portable equipment segment dominated the market in 2019 and is expected to register a CAGR of 5.7% from 2020 to 2027.

3. Growing Role in Critical Care

Blood purification is gaining traction in the management of sepsis and other life-threatening conditions. By removing endotoxins and inflammatory mediators, blood purification devices improve outcomes in critically ill patients.

4. Impact of COVID-19

The pandemic underscored the importance of blood purification equipment in treating severe cases. Several manufacturers sought Emergency Use Authorization (EUA) from the U.S. FDA to utilize their devices for COVID-19 patients.

- Increased research into blood purification as a method to limit viral transmission further fueled market growth.

Blood Purification Equipment Market Segmentation

The blood purification equipment market is segmented by product type, indication, end user, and region.

1. By Product Type

a) Portable Equipment

- High demand due to ease of mobility and space efficiency.
- Preferred in critical care units where patient comfort is prioritized.

b) Stationary Equipment

- Continued use in hospitals and specialized centers.
- Robust performance for long-term treatment needs.

2. By Indication

a) Renal Diseases

- Dominated the market in 2019 due to the growing prevalence of CKDs.

- Innovations in dialysis treatments are further propelling demand.

b) Sepsis

- Increasing awareness of sepsis as a life-threatening condition has led to higher adoption of blood purification techniques in ICUs.

c) Others

- Emerging applications in autoimmune diseases and metabolic disorders contribute to this segment's growth.

3. By End User

a) Dialysis Centers

- Accounted for the largest revenue share in 2019.

- Key drivers include an increase in the patient population requiring dialysis and the expansion of dialysis programs by private and public organizations.

b) Hospitals and Clinics

- Significant use in treating critically ill patients and managing emergencies.

c) Others

- Includes home care settings, which are gaining popularity due to the availability of portable devices.

4. By Region

a) Asia-Pacific

- Market Leader (2019): Thanks to a rising patient population, improving healthcare infrastructure, and increased awareness.

- Expected to maintain dominance through 2027.

b) North America

- Growth driven by advanced healthcare facilities and the presence of key industry players.

c) Europe

- Stable growth supported by government initiatives and an aging population.

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Key Trends Shaping the Blood Purification Equipment Market

1. Integration of AI and IoT

Artificial intelligence and IoT-enabled devices are enhancing the efficiency of blood purification equipment. Features such as real-time monitoring and predictive analytics improve patient outcomes.

2. Expansion of In-Center Dialysis Programs

Major players like Fresenius Medical Care operate thousands of dialysis centers worldwide, providing high-quality care and driving demand for blood purification devices.

3. Innovative Product Launches

Companies are focusing on developing devices with enhanced bio-separation capabilities,

compact designs, and improved user interfaces.

Challenges

1. High Cost of Equipment

The affordability of blood purification devices remains a barrier, particularly in low-income regions.

2. Supply Chain Disruptions

The pandemic highlighted vulnerabilities in global supply chains, affecting the availability of essential medical equipment.

3. Regulatory Hurdles

Stringent approval processes and varying regulations across countries can delay product launches.

Opportunities

1. Emerging Markets

Countries in Asia-Pacific and Africa present untapped potential due to growing healthcare investments and a rising prevalence of chronic diseases.

2. Home-Based Care

The shift toward home healthcare is creating opportunities for portable and user-friendly blood purification devices.

3. Collaborations and Partnerships

Strategic alliances between manufacturers and healthcare providers can accelerate innovation and expand market reach.

Blood Purification Equipment Market Competitive Landscape

Prominent players in the market include:

- Asahi Kasei Corporation
- Baxter International Inc.
- Fresenius SE & Co. KGaA
- B. Braun Melsungen AG

These companies are investing in R&D, product innovation, and expansion of dialysis networks to stay competitive.

The blood purification equipment market is poised for robust growth, driven by rising chronic disease prevalence, technological advancements, and the increasing adoption of innovative treatment methods. While challenges such as cost and regulatory barriers persist, the market's focus on portable devices, home-based care, and emerging applications in critical care offers significant growth opportunities. As healthcare systems continue to prioritize patient-centered care and advanced treatment options, the blood purification equipment market will play a crucial role in shaping the future of global healthcare.

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