

Blood Bank Refrigerator Market Size To Reach \$1.71 Billion By 2030 At A CAGR Of 6.8%

The Business Research Company's Blood Bank Refrigerator Market Report 2026 – Market Size, Trends, And Global Forecast 2026-2035

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/EINPresswire.com/ -- "The demand for reliable blood storage solutions is

becoming increasingly vital in healthcare, especially as medical facilities expand and surgical interventions rise globally. The [blood bank refrigerator market](#) is responding to these needs with steady growth, driven by advancements in medical infrastructure and a greater focus on safe, efficient blood preservation. Below is an overview of the market's current size, growth drivers, regional dynamics, and emerging trends shaping its future.

[Blood Bank Refrigerator Market Size](#) and Growth Trajectory

The blood bank refrigerator market has experienced significant expansion in recent years. It is projected to increase from \$1.23 billion in 2025 to \$1.32 billion in 2026, growing at a compound annual growth rate (CAGR) of 7.3%. This growth during the historical period is largely due to rising demand for secure blood storage facilities in hospitals, the increasing volume of surgeries requiring blood transfusions, the development of organized blood banking in urban healthcare settings, stricter regulatory guidelines for temperature management, and greater investment in hospital infrastructure and refrigeration technology.

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Looking ahead, the market is expected to maintain strong momentum, reaching \$1.72 billion by 2030 with a CAGR of 6.8%. Factors fueling this forecast include the growing need for sophisticated healthcare infrastructure in emerging markets, a shift toward automated and connected storage solutions, expansion of emergency and trauma care units, increased requirements for cold storage of vaccines and biologics, and the adoption of energy-efficient and

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environmentally sustainable refrigeration systems. Key trends anticipated in this period involve the integration of real-time temperature monitoring to ensure compliance, wider use of smart refrigerators equipped with remote alert features, the rise of energy-saving refrigeration to cut operational costs, and the expansion of vaccine and plasma storage capacities. Predictive maintenance technologies are also becoming more common in blood storage equipment.

Defining the Blood Bank Refrigerator and Its Role

A blood bank refrigerator is a specialized medical appliance designed to store blood and its components at carefully controlled temperatures, typically between 2°C and 6°C. This precise temperature regulation is crucial to preserving the quality and safety of blood products, preventing spoilage and maintaining their efficacy for transfusions. These refrigerators play a key role in ensuring that blood remains viable for use in various medical procedures.

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Rising Surgical Procedures as a Key Market Growth Factor

One of the primary drivers supporting the blood bank refrigerator market's expansion is the increasing number of surgical operations worldwide. Surgical procedures involve medical interventions where instruments are used to diagnose, treat, or repair conditions directly within the body. The frequency of such procedures is climbing due to the rise in chronic diseases that often require surgical treatment. Blood bank refrigerators facilitate the safe storage of blood products at optimal temperatures, enabling prompt and reliable transfusions critical to these surgeries. For example, in January 2025, Intuitive Surgical Inc., a US medical technology firm, reported that approximately 2,683,000 surgeries were conducted using da Vinci surgical systems. This reflects steady growth from 2,286,000 surgeries in 2023 and 1,875,000 in 2022, highlighting a consistent upward trend that supports greater demand for blood storage solutions.

Growth in Voluntary Blood Donations Boosting Market Expansion

Another important factor driving the blood bank refrigerator market is the increase in blood donations, especially due to enhanced voluntary donation campaigns. Blood donation involves healthy individuals voluntarily giving blood to be collected, tested, and used for transfusions in patients undergoing surgeries, facing illness, or suffering injuries. Improved public awareness and organized campaigns have encouraged more people to donate regularly, resulting in higher volumes of collected blood components. This surge necessitates advanced refrigeration systems to guarantee stable, safe storage and effective preservation of blood supplies. As an illustration, the World Health Organization reported that annual blood collection rose from 12.6 million units in 2023 to 14.6 million units in 2024, with voluntary donations accounting for 74.55% of the total. Continued growth is expected through 2025, underscoring the importance of reliable blood bank refrigeration.

Leading Geographic Regions in the Blood Bank Refrigerator Market

In 2025, North America held the largest share of the [global blood bank refrigerator market](#), reflecting its advanced healthcare infrastructure and regulatory frameworks. Meanwhile, the Asia-Pacific region is projected to be the fastest-growing market during the forecast period, driven by expanding healthcare access and investment in medical facilities. Other regions covered in the market analysis include South East Asia, Western Europe, Eastern Europe, South America, the Middle East, and Africa, providing a comprehensive view of global market dynamics.

New analytical features added to our 2026 market reports:

- Market attractiveness scoring and analysis
- Total addressable market (TAM) analysis
- Company scoring matrix graphics and tables
- Excel-based forecasting dashboards
- Market hotspots infographics
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- Updated graphics and tables

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