

# Global Blood Thaw Equipment Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Blood Thaw Equipment market size is expected to reach \$ 1266 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

Blood thawing equipment refers to specialized medical devices used for the controlled thawing of frozen blood and blood products (such as plasma and red blood cells). By precisely controlling temperature, time, and thawing environment (such as water bath or dry heating), a uniform, rapid, and contamination-free thawing process is achieved while ensuring the activity and safety of blood components. This type of equipment is widely used in hospital transfusion departments, blood banks, and blood stations, and is one of the crucial pieces of equipment for ensuring the quality and safety of blood products before clinical use.

The upstream of the blood thawing equipment industry chain mainly includes suppliers of structural materials such as stainless steel and engineering plastics, as well as manufacturers of core components such as temperature control systems, sensors, heating modules, control systems (such as PID controllers and embedded software), and power supplies. The midstream consists of blood thawing equipment manufacturers, responsible for equipment design, system integration, production assembly, and quality control; this is the core value link of the industry chain. The downstream is mainly used in medical institutions such as hospital transfusion departments, blood banks, blood stations, and emergency centers for the standardized thawing of plasma and other blood products. In terms of gross profit margin, the upstream component and material segment typically has a gross profit margin of 10%-25%; the midstream equipment manufacturing segment, due to certain technological barriers and medical device qualification requirements, generally has a gross profit margin of 30%-55%, with high-end intelligent or brand-premium products

potentially having even higher margins; downstream medical institutions primarily use and service equipment, so the gross profit margin of equipment manufacturing is not directly reflected in the product's price.

In 2025, the average price of blood thawing equipment was \$1200 per unit, with sales of 448.3 k units and a total production capacity of 640 k units.

Blood thawing equipment, as a key component in blood transfusion safety and cell therapy processes, continues to benefit from the increasing demand for clinical blood transfusions, the standardization of cold chain management for blood products, and the development of the cell and gene therapy industry. Overall, this field exhibits a high level of technological maturity but is still trending towards automation, intelligence, and standardization. Water bath equipment remains the mainstream, but the penetration rate of dry-type, closed-loop, and high-end equipment with programmed temperature control and data traceability functions is continuously increasing. Simultaneously, hospitals and blood centers are imposing increasingly stringent requirements on temperature uniformity, contamination prevention, and traceability during the thawing process, driving product development towards compliance and high reliability. Industry barriers mainly lie in medical device registration and certification, stable temperature control technology, and channel and brand building. While the overall market size is steadily growing, it is a niche market with a relatively fragmented competitive landscape. Future growth will depend more on upgrades to the healthcare system and the expansion of new biological therapy applications.

This report studies the global Blood Thaw Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Blood Thaw Equipment 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 Blood Thaw Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Blood Thaw Equipment total production and demand, 2021-2032, (K Units)

Global Blood Thaw Equipment total production value, 2021-2032, (USD Million)

Global Blood Thaw Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Blood Thaw Equipment consumption by region & country, CAGR, 2021-2032 &

(K Units)

U.S. VS China: Blood Thaw Equipment domestic production, consumption, key domestic manufacturers and share

Global Blood Thaw Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Blood Thaw Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Blood Thaw Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Blood Thaw Equipment 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 Helmer Scientific, Boekel Scientific, Sarstedt, Barkey, BioCision, Cardinal Health, Sartorius, GE Healthcare, Thermo Fisher Scientific, CytoTherm, 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 Blood Thaw Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Blood Thaw Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Blood Thaw Equipment Market, Segmentation by Type:

Manual Blood Thawing

Automated Blood Thawing

#### Global Blood Thaw Equipment Market, Segmentation by Thawing Method:

Water Bath Thawing Equipment

Dry Thawing Equipment

Electromagnetic Heating Thawing Equipment

Vibrating Thawing Equipment

#### Global Blood Thaw Equipment Market, Segmentation by Structural Form:

Desktop Equipment

Standing Equipment

Portable Equipment

#### Global Blood Thaw Equipment Market, Segmentation by Application:

Research & Academic Institutes

Hospitals & Diagnostic Laboratories

Others

#### Companies Profiled:

Helmer Scientific

Boekel Scientific

Sarstedt

Barkey

BioCision

Cardinal Health

Sartorius

GE Healthcare

Thermo Fisher Scientific

CytoTherm

Weifang Junchi Electronic Technology

Shandong Sanjiang Medical Technology

Syntegon

#### Key Questions Answered:

1. How big is the global Blood Thaw Equipment market?
2. What is the demand of the global Blood Thaw Equipment market?

3. What is the year over year growth of the global Blood Thaw Equipment market?
4. What is the production and production value of the global Blood Thaw Equipment market?
5. Who are the key producers in the global Blood Thaw Equipment market?
6. What are the growth factors driving the market demand?

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