

# Global Perfusion Systems Market Size study & Forecast, by Technology (Normothermic Machine Perfusion, Hypothermic Machine Perfusion) by Organ (Heart, Lung, Kidney, Liver, Others) and Regional Analysis, 2023-2030

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## Abstracts

Global Perfusion Systems Market is valued approximately at USD XXX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Perfusion systems are devices or techniques used in medical and scientific fields to deliver a continuous flow of oxygenated and nutrient-rich fluid to tissues or organs. These systems are designed to mimic the natural blood circulation in the body and provide a controlled environment for preserving or studying tissues outside of the body. Perfusion systems are utilized in organ transplantation to preserve organs before transplantation. They help to maintain the viability and function of organs by delivering oxygen and nutrients, removing waste products, and controlling temperature and pressure. The Perfusion Systems market is expanding because of factors such as rising cases of organ transplant and increase in the prevalence of cardiovascular and respiratory diseases.

The growing demand for organ transplants, including heart, liver, kidney, and lung transplants, has significantly increased the need for advanced perfusion systems. Perfusion systems play a crucial role in preserving and assessing donor organs outside the body, improving the success rates of transplants and expanding the pool of available organs. According to information released by the Health Resources and Services Administration in March 2022, around 40,000 organ transplants were carried out in the United States in 2021. Also carried out in the United States in 2021 were 9,236 live transplants and 26,670 kidney transplants. Furthermore, according to figures published in 2021 by the International Society of Nephrology (ISN) and International

Federation of renal Foundations (IFKF), renal disease afflicted almost 850.0 million individuals globally. The same source also stated that one in ten people globally have chronic kidney disease (CKD). By 2040, it is anticipated that CKD would rank as the fifth most prevalent cause of death globally because of its steadily rising global burden. As a result, the need for kidney transplants is anticipated to rise along with the frequency of chronic renal disease, fueling market expansion. In addition, advancement in transplantation techniques and rising initiatives by government and various organizations to promote organ donations is creating a lucrative opportunity to the market. However, the stringent regulatory requirements and availability of alternative treatment method stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Perfusion Systems Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to the dominance of key market players, rising prevalence of various chronic and cardiovascular diseases, rising organ transplant cases, and rising initiatives for technological advancement in the region. Whereas, Asia Pacific region is projected to have fastest growth owing to factors such as rising prevalence of diseases such as cardiovascular and respiratory diseases. In the region, favorable government reimbursement policies related to organ transplantation, and increasing healthcare expenditure is supporting the market growth.

Major market player included in this report are:

Bridge to Life (Europe) Ltd.

Organ Assist B.V.

Organ Recovery Systems, Inc

OrganOx Limited

Paragonix Technologies, Inc.

Preservation Solutions Inc

TransMedics, Inc.

Waters Medical Systems LLC

XVIVO Perfusion AB

Repligen Corporation

Recent Developments in the Market:

In February 2023, In Europe, LivaNova announced a limited commercial distribution of its Essenz perfusion system. After successfully implementing in The Netherlands and Italy, the company started its debut in a few key locations across Europe. The Essenz system was developed by London-based LivaNova and includes a patient monitor and a cutting-edge heart-lung machine. It was created by the company to give a patient-tailored strategy that enables data-driven decisions during cardiopulmonary bypass treatments.

In January 2022, The FDA granted 510(k) approval to XVIVO for their Kidney Assist Transport, a transportable organ perfusion system that provides continuous oxygenated perfusion for up to 24 hours. The device has been shown to enhance preservation when compared to cold storage.

Global Perfusion Systems Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Technology, Organ, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional &

## segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

### By Technology:

Normothermic Machine Perfusion

Hypothermic Machine Perfusion

### By Organ:

Heart

Lung

Kidney

Liver

Others

### By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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