

Artificial Heart-Lung Machine Market Report by Type (Single Roller Pump, Double Roller Pump), Application (Cardiac Surgeries, Lung Surgeries, Acute Respiratory Failure Treatment, and Others), End User (Hospitals and Clinics, Ambulatory Surgical Centers, and Others), and Region 2024-2032

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Abstracts

The global artificial heart-lung machine market size reached US\$ 293.2 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 393.7 Million by 2032, exhibiting a growth rate (CAGR) of 3.2% during 2024-2032.

An artificial heart-lung machine, also known as a cardiopulmonary bypass (CPB) or oxygenator pump, is used during coronary artery bypass, heart and lung transplants, and other cardiac surgeries. It temporarily performs the functions of the heart and lungs to enable the surgeon to operate in motion and bloodless surgical field. These machines consist of a chamber that receives blood, which is then oxygenated and circulated to all body parts. Over the years, these pumps have helped in making significant advances in the management of severe respiratory failure as well as in the field of cardiac surgeries.

In recent years, there has been a significant rise in the number of open-heart surgeries, heart transplants and lung surgeries across the globe. This can primarily be attributed to various environmental and lifestyle changes, which have led to an increase in the prevalence of cardiovascular diseases and the instances of organ failures. Other than this, governments of several developing nations are making efforts for providing improved healthcare facilities to patients, which is driving the demand for artificial heart-lung machines. Furthermore, the market players are investing in research and

development activities to modernize the current models of oxygenator pumps. These activities have led to the development of modular heart-lung machines that are cost-effective, safe, and user-friendly in nature. Besides this, these machines also offer flexibility to doctors as they are portable and can be operated on rechargeable batteries. The manufacturers have also made several improvements in CPB pumps to prevent the over-oxygenation of blood.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global artificial heart-lung machine market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on type, application and end user.

Breakup by Type:

- Single Roller Pump
- Double Roller Pump

Breakup by Application:

- Cardiac Surgeries
- Lung Surgeries
- Acute Respiratory Failure Treatment
- Others

Breakup by End User:

- Hospitals and Clinics
- Ambulatory Surgical Centers
- Others

Breakup by Region:

- North America
- Europe
- Asia Pacific
- Middle East and Africa
- Latin America

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Medtronic Inc., Sorin Group, MAQUET GmbH & Co KG, Terumo Corporation, C.R. Bard Inc., Tianjin Welcome Medical Equipment Co., Ltd., Edwards Lifesciences, Jarvik Heart Inc., Braile Biomedica, SynCardia Systems, LLC, etc.

Key Questions Answered in This Report

1. What was the size of the global artificial heart-lung machine market in 2023?
2. What is the expected growth rate of the global artificial heart-lung machine market during 2024-2032?
3. What are the key factors driving the global artificial heart-lung machine market?
4. What has been the impact of COVID-19 on the global artificial heart-lung machine market?
5. What is the breakup of the global artificial heart-lung machine market based on the type?
6. What is the breakup of the global artificial heart-lung machine market based on the application?
7. What is the breakup of the global artificial heart-lung machine market based on the end user?
8. What are the key regions in the global artificial heart-lung machine market?
9. Who are the key players/companies in the global artificial heart-lung machine market?

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