

# **Global Liquid Ring Vacuum Pumps Market Size Study, by Type (Single-Stage, Two-Stage), by Material Type (Cast Iron, Stainless Steel), by Flow Rate (Below 600 M3H, 600 - 3,000 M3H, 3,000 - 10,000 M3H, Over 10,000 M3H), by Application (Aerospace & Defence, Automobile, Chemical & Material, Food Manufacturing, Oil & Gas, Pharmaceutical, Power Generation, Pulp & Paper, Water Treatment), and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Liquid Ring Vacuum Pumps Market is poised to witness substantial growth, with an estimated value of USD 2.17 billion in 2023, growing at a CAGR of 8.02% over the forecast period 2024-2032. Liquid ring vacuum pumps are integral to a variety of industries due to their efficiency and reliability in handling gases and vapors. These pumps are crucial for operations in sectors such as chemicals, pharmaceuticals, energy, and others, where their robust design and operational efficacy are highly valued. The demand for liquid ring vacuum pumps is being driven by the growing need for energy-efficient and environmentally friendly pumping solutions in general process industries. Strict environmental regulations favoring energy-efficient equipment and the expanding applications in developing countries further fuel market growth. Innovations aimed at enhancing pump efficiency, reducing maintenance requirements, and compact device design are anticipated to open new growth avenues for the market. However,

Two-stage liquid ring vacuum pumps are particularly gaining traction for their higher vacuum levels, essential for industries requiring high-end vacuum applications like petrochemicals and power generation. On the other hand, single-stage pumps, known

for their operational efficiency and energy savings, are popular in the food processing and pharmaceutical industries. The material type plays a significant role, with stainless steel being preferred for its superior corrosion resistance in handling corrosive gases and vapors, while cast iron is favored for its cost-efficiency and durability in high-pressure and temperature conditions.

The key regions considered for the Global Liquid Ring Vacuum Pumps Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. Regionally, the Americas lead the market due to significant utilization in oil & gas, chemical, and power sectors. The stringent environmental regulations in the United States necessitate efficient vacuum solutions, boosting market growth. Europe is witnessing increased demand driven by energy efficiency regulations and the expansion of the pharmaceutical and biotechnology sectors. The Middle East's thriving petrochemical industry also contributes to the market's growth. Asia-Pacific, with rapid industrialization in countries like China and India, presents vast growth opportunities, particularly in manufacturing, chemical processing, and wastewater treatment sectors.

Major market players included in this report are:

Alfa Laval AB  
Atlas Copco AB  
Busch Dienste GmbH  
Flowserve Corporation  
Ebara Corporation  
Ingersoll Rand Inc.  
Sulzer Ltd.  
KSB SE & Co. KGaA  
Tsurumi Manufacturing Co., Ltd.  
Pfeiffer Vacuum Technology AG  
Gardner Denver Holdings, Inc.  
Nash Engineering Company  
Graham Corporation  
Samson Pumps A/S  
Premier Fluid Systems Inc.

The detailed segments and sub-segment of the market are explained below:

By Type:

Single-Stage

Two-Stage

**By Material Type:**

Cast Iron

Stainless Steel

**By Flow Rate:**

Below 600 M3H

600 - 3,000 M3H

3,000 - 10,000 M3H

Over 10,000 M3H

**By Application:**

Aerospace &amp; Defence

Automobile

Chemical &amp; Material

Food Manufacturing

Oil &amp; Gas

Pharmaceutical

Power Generation

Pulp &amp; Paper

Water Treatment

**By Region:**

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia  
Rest of Asia-Pacific

Latin America  
Brazil  
Mexico  
Rest of Latin America

Middle East and Africa  
Saudi Arabia  
South Africa  
Rest of Middle East and Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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