

# **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**

<https://marketpublishers.com/r/G862FD31DAB3EN.html>

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G862FD31DAB3EN

## **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.

## Contents

### **CHAPTER 1. GLOBAL LIQUID RING VACUUM PUMPS MARKET EXECUTIVE SUMMARY**

- 1.1. Global Liquid Ring Vacuum Pumps Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Type
  - 1.3.2. By Material Type
  - 1.3.3. By Flow Rate
  - 1.3.4. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL LIQUID RING VACUUM PUMPS MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

## **CHAPTER 3. GLOBAL LIQUID RING VACUUM PUMPS MARKET DYNAMICS**

### **3.1. Market Drivers**

- 3.1.1. Growing Demand from General Process Industries
- 3.1.2. Favorable Environmental Regulations
- 3.1.3. Burgeoning Demand in Developing Countries

### **3.2. Market Challenges**

- 3.2.1. High Initial Costs
- 3.2.2. Performance and Reliability Issues

### **3.3. Market Opportunities**

- 3.3.1. Innovation in Pump Efficiency
- 3.3.2. Adoption of Compact Device Design
- 3.3.3. Expansion in Wastewater Treatment Sector

## **CHAPTER 4. GLOBAL LIQUID RING VACUUM PUMPS MARKET INDUSTRY ANALYSIS**

### **4.1. Porter's 5 Force Model**

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

### **4.2. PESTEL Analysis**

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

### **4.3. Top investment opportunity**

### **4.4. Top winning strategies**

### **4.5. Disruptive Trends**

### **4.6. Industry Expert Perspective**

### **4.7. Analyst Recommendation & Conclusion**

## **CHAPTER 5. GLOBAL LIQUID RING VACUUM PUMPS MARKET SIZE &**

## **FORECASTS BY TYPE 2022-2032**

### 5.1. Segment Dashboard

### 5.2. Global Liquid Ring Vacuum Pumps Market: Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

#### 5.2.1. Single-Stage

#### 5.2.2. Two-Stage

## **CHAPTER 6. GLOBAL LIQUID RING VACUUM PUMPS MARKET SIZE & FORECASTS BY MATERIAL TYPE 2022-2032**

### 6.1. Segment Dashboard

### 6.2. Global Liquid Ring Vacuum Pumps Market: Material Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

#### 6.2.1. Cast Iron

#### 6.2.2. Stainless Steel

## **CHAPTER 7. GLOBAL LIQUID RING VACUUM PUMPS MARKET SIZE & FORECASTS BY FLOW RATE 2022-2032**

### 7.1. Segment Dashboard

### 7.2. Global Liquid Ring Vacuum Pumps Market: Flow Rate Revenue Trend Analysis, 2022 & 2032 (USD Billion)

#### 7.2.1. Below 600 M3H

#### 7.2.2. 600 – 3,000 M3H

#### 7.2.3. 3,000 – 10,000 M3H

#### 7.2.4. Over 10,000 M3H

## **CHAPTER 8. GLOBAL LIQUID RING VACUUM PUMPS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032**

### 8.1. Segment Dashboard

### 8.2. Global Liquid Ring Vacuum Pumps Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

#### 8.2.1. Aerospace & Defence

#### 8.2.2. Automobile

#### 8.2.3. Chemical & Material

#### 8.2.4. Food Manufacturing

#### 8.2.5. Oil & Gas

- 8.2.6. Pharmaceutical
- 8.2.7. Power Generation
- 8.2.8. Pulp & Paper
- 8.2.9. Water Treatment

## **CHAPTER 9. GLOBAL LIQUID RING VACUUM PUMPS MARKET SIZE & FORECASTS BY REGION 2022-2032**

- 9.1. North America Liquid Ring Vacuum Pumps Market
  - 9.1.1. U.S. Liquid Ring Vacuum Pumps Market
    - 9.1.1.1. Type breakdown size & forecasts, 2022-2032
    - 9.1.1.2. Material Type breakdown size & forecasts, 2022-2032
    - 9.1.1.3. Flow Rate breakdown size & forecasts, 2022-2032
    - 9.1.1.4. Application breakdown size & forecasts, 2022-2032
  - 9.1.2. Canada Liquid Ring Vacuum Pumps Market
- 9.2. Europe Liquid Ring Vacuum Pumps Market
  - 9.2.1. Germany Liquid Ring Vacuum Pumps Market
  - 9.2.2. U.K. Liquid Ring Vacuum Pumps Market
  - 9.2.3. France Liquid Ring Vacuum Pumps Market
  - 9.2.4. Italy Liquid Ring Vacuum Pumps Market
  - 9.2.5. Spain Liquid Ring Vacuum Pumps Market
  - 9.2.6. Rest of Europe Liquid Ring Vacuum Pumps Market
- 9.3. Asia-Pacific Liquid Ring Vacuum Pumps Market
  - 9.3.1. China Liquid Ring Vacuum Pumps Market
  - 9.3.2. Japan Liquid Ring Vacuum Pumps Market
  - 9.3.3. India Liquid Ring Vacuum Pumps Market
  - 9.3.4. South Korea Liquid Ring Vacuum Pumps Market
  - 9.3.5. Australia Liquid Ring Vacuum Pumps Market
  - 9.3.6. Rest of Asia-Pacific Liquid Ring Vacuum Pumps Market
- 9.4. Latin America Liquid Ring Vacuum Pumps Market
  - 9.4.1. Brazil Liquid Ring Vacuum Pumps Market
  - 9.4.2. Mexico Liquid Ring Vacuum Pumps Market
  - 9.4.3. Rest of Latin America Liquid Ring Vacuum Pumps Market
- 9.5. Middle East and Africa
  - 9.5.1. Saudi Arabia Liquid Ring Vacuum Pumps Market
  - 9.5.2. South Africa Liquid Ring Vacuum Pumps Market
  - 9.5.3. Rest of Middle East and Africa Liquid Ring Vacuum Pumps Market

## **CHAPTER 10. COMPETITIVE INTELLIGENCE**



## 10.1. Key Company SWOT Analysis

10.1.1. Company

10.1.2. Company

10.1.3. Company

## 10.2. Top Market Strategies

## 10.3. Company Profiles

10.3.1. Alfa Laval AB

10.3.1.1. Key Information

10.3.1.2. Overview

10.3.1.3. Financial (Subject to Data Availability)

10.3.1.4. Product Summary

10.3.1.5. Market Strategies

10.2.2. Atlas Copco AB

10.3.3. Busch Dienste GmbH

10.3.4. Flowserve Corporation

10.3.5. Ebara Corporation

10.3.6. Ingersoll Rand Inc.

10.3.7. Sulzer Ltd.

10.3.8. KSB SE & Co. KGaA

10.3.9. Tsurumi Manufacturing Co., Ltd.

10.3.10. Pfeiffer Vacuum Technology AG

10.3.11. Gardner Denver Holdings, Inc.

10.3.12. Nash Engineering Company

10.3.13. Graham Corporation

10.3.14. Samson Pumps A/S

10.3.15. Premier Fluid Systems Inc.

## CHAPTER 11. RESEARCH PROCESS

## 11.1. Research Process

11.1.1. Data Mining

11.1.2. Analysis

11.1.3. Market Estimation

11.1.4. Validation

11.1.5. Publishing

## 11.2. Research Attributes

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Liquid Ring Vacuum Pumps market, report scope

TABLE 2. Global Liquid Ring Vacuum Pumps market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Liquid Ring Vacuum Pumps market estimates & forecasts by Type 2022-2032 (USD Billion)

TABLE 4. Global Liquid Ring Vacuum Pumps market estimates & forecasts by Material Type 2022-2032 (USD Billion)

TABLE 5. Global Liquid Ring Vacuum Pumps market estimates & forecasts by Flow Rate 2022-2032 (USD Billion)

TABLE 6. Global Liquid Ring Vacuum Pumps market estimates & forecasts by Application 2022-2032 (USD Billion)

TABLE 7. Global Liquid Ring Vacuum Pumps market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global Liquid Ring Vacuum Pumps market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. U.S. Liquid Ring Vacuum Pumps market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. U.S. Liquid Ring Vacuum Pumps market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 11. Germany Liquid Ring Vacuum Pumps market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Germany Liquid Ring Vacuum Pumps market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 13. China Liquid Ring Vacuum Pumps market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. China Liquid Ring Vacuum Pumps market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 15. Brazil Liquid Ring Vacuum Pumps market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. Brazil Liquid Ring Vacuum Pumps market estimates & forecasts by segment 2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Liquid Ring Vacuum Pumps market, research methodology
- FIG 2. Global Liquid Ring Vacuum Pumps market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Liquid Ring Vacuum Pumps market, key trends 2023
- FIG 5. Global Liquid Ring Vacuum Pumps market, growth prospects 2022-2032
- FIG 6. Global Liquid Ring Vacuum Pumps market, porters 5 force model
- FIG 7. Global Liquid Ring Vacuum Pumps market, PESTEL analysis
- FIG 8. Global Liquid Ring Vacuum Pumps market, value chain analysis
- FIG 9. Global Liquid Ring Vacuum Pumps market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Liquid Ring Vacuum Pumps market by Type, 2022 & 2032 (USD Billion)
- FIG 11. Global Liquid Ring Vacuum Pumps market by Material Type, 2022 & 2032 (USD Billion)
- FIG 12. Global Liquid Ring Vacuum Pumps market by Flow Rate, 2022 & 2032 (USD Billion)
- FIG 13. Global Liquid Ring Vacuum Pumps market by Application, 2022 & 2032 (USD Billion)
- FIG 14. Global Liquid Ring Vacuum Pumps market, regional snapshot 2022 & 2032
- FIG 15. North America Liquid Ring Vacuum Pumps market 2022 & 2032 (USD Billion)
- FIG 16. Europe Liquid Ring Vacuum Pumps market 2022 & 2032 (USD Billion)
- FIG 17. Asia Pacific Liquid Ring Vacuum Pumps market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Liquid Ring Vacuum Pumps market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Liquid Ring Vacuum Pumps market 2022 & 2032 (USD Billion)
- FIG 20. Global Liquid Ring Vacuum Pumps market, company market share analysis (2023)

.....

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

## I would like to order

Product name: 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

Product link: <https://marketpublishers.com/r/G862FD31DAB3EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G862FD31DAB3EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

& Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970