

Liquid Ring Vacuum Pumps Market worth \$3.73 billion by 2030 - Exclusive Report by 360iResearch

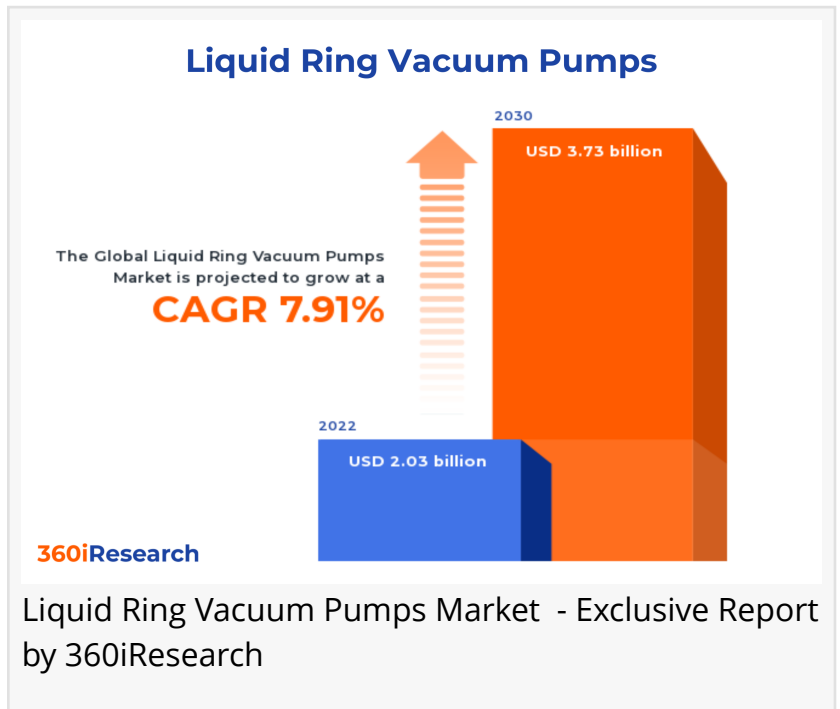
The Global Liquid Ring Vacuum Pumps Market to grow from USD 2.03 billion in 2022 to USD 3.73 billion by 2030, at a CAGR of 7.91%.

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EINPresswire.com/ -- The "[Liquid Ring Vacuum Pumps Market](#) by Type (Single-Stage, Two-Stage), Material Type (Cast Iron, Stainless Steel), Flow Rate, Application - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

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The liquid ring vacuum pumps market exhibits remarkable dynamism, encompassing diverse sectors such as chemicals, energy, and pharmaceuticals across various geographies. The exhaustive scope includes single-stage to multi-stage pumps, presenting an accurate market landscape. The growing demand from general process industries and environmental regulations favoring the use of energy-efficient pumps is propelling the market growth. The high initial cost of liquid ring vacuum pumps with a shift toward hybrid technologies, limited reliability, performance issues, and labor-intensive installation processes might restrict the market growth. The market witnesses burgeoning demand for high-capacity pumps and burgeoning adoption in developing countries, offering significant growth potential. Innovation and research in areas such as enhancing pump efficiency, reducing maintenance requirements, and compact device design could stimulate market growth.



Flow Rate: Increasing utilization of 3000-10,000 M3H range pumps in industries including oil & gas, petrochemical and chemical, and power generation

The pumps with a range below 600 M3H are highly sought after in small to medium-sized industrial applications, including food and beverage processing, where the need for maintaining a controlled environment is crucial. The 600 – 3,000 M3H segment is typically employed in larger-scale operations such as chemical processing and oil & gas industries. They are essential for safeguarding operative workers and delicate machinery. Significantly powerful liquid ring vacuum pumps within the 3,000 - 10,000 M3H range are primarily utilized in substantial industrial setups, including power plants and heavy machinery industries. Furthermore, pumps over 10,000 M3H are commonly used for heavy-duty industrial applications. These pumps are primarily designed to handle high capacities and are preferred in industries such as paper manufacturing and wastewater treatment. LRVPs with a flow rate of 3000-10,000 M3H are in significant demand with major utilization across industries such as oil & gas, petrochemical and chemical, pulp & paper, and power generation.

Application: Rising popularity of liquid ring vacuum pumps in the oil & gas and petrochemical for managing volatile substances effectively

Liquid ring vacuum pumps are utilized in the aviation industry to sustain the various systems of an aircraft, including airlift controls and onboard air conditioning. Liquid ring vacuum pumps are essential for cooling systems and brake systems in the automobile sector. Additionally, they are used extensively for shaping and molding processes in the EPS & plastics industry. Businesses are increasingly using liquid ring vacuum pumps for ensuring safety and freshness in the food packaging process due to the enhancement of shelf-life they provide to food products. Liquid ring vacuum pumps have wide applications in the oil & gas industry, especially for extraction and refining processes for their efficiency in managing volatile substances. The application of liquid ring vacuum pumps in the petrochemical and chemical industry for evaporative cooling is significant owing to their high stability and robustness under harsh conditions, boosting their demand. Liquid ring vacuum pumps are employed in the pharmaceutical industry to conduct vacuum drying processes. These pumps have gained popularity due to their ability to reduce contamination risks during production. Leveraging liquid ring vacuum pumps for condenser degassing in power plants is quite prevalent. These pumps have witnessed an increased preference due to their high efficiency and low noise levels. Liquid ring vacuum pumps in the pulp & paper industry assist in extracting water from the pulp during paper production. The preference for these pumps is due to their ability to handle large volumes of liquids. Liquid ring vacuum pumps are essential in the water treatment industry to separate sewage from water. The preference of the sector for LRVPs is rising due to their ability to decrease water waste and ensure clean water.

Type: Expanding use of two-stage liquid ring vacuum pumps in industries owing to higher vacuum level

The single-stage liquid ring vacuum pumps are appreciated particularly for their simplified design and operational efficiency. They are highly effective for operations that demand

moderate suction pressure, such as food processing and pharmaceutical industries. Two-stage liquid ring vacuum pumps offer a higher vacuum level, making them suitable for industries that require high-end vacuum, such as the petrochemical and power industries. Single-stage pumps offer reliable performance for moderate vacuum requirements and are lauded for their energy-efficient design. However, the two-stage pumps are more costly and preferred in industries requiring high vacuum levels.

Material Type: Consumer preference for stainless steel liquid ring vacuum pump as it deals with corrosive gasses and vapors

Cast iron is a durable and robust material popular in the construction of liquid ring vacuum pump housings and casings. Its excellent heat dissipation and erosion resistance properties make it ideal for the pump operation under high-pressure and temperature conditions. Stainless steel is preferred for its superior corrosion resistance, making it the go-to choice for applications dealing with corrosive gases or vapors. Their ability to withstand harsh operational environments without leakage or degradation has led to their application in industries including chemical, pharmaceuticals, and food processing. While cast iron vacuum pumps offer cost-efficiency and durability, they are not well suited for applications involving high corrosion. However, stainless steel is costlier and provides superior corrosion resistance and durability and is, therefore, a more fitting choice for specific industries.

Regional Insights:

The liquid ring vacuum pumps market in the Americas, demonstrates robust growth fueled by significant utilization in the oil & gas, chemical, and power sectors. The United States showcases a considerable demand due to the necessity for efficient and reliable vacuum solutions. Moreover, tightening environmental regulations have driven the pump system upgrades, boosting the regional market growth. The demand for liquid ring vacuum pumps in EMEA is escalating, influenced by different factors. Europe has regulations enforcing energy efficiency and carbon reduction, such as the EU MEPS (Minimum Energy Performance Standard), pushing industries toward energy-efficient pump technologies. The regional market is experiencing a surge in demand due to the expansion of associated markets, including pharmaceuticals and biotechnology. Notably, the Middle East's thriving petrochemical industry adds to the growing pump demand in the EMEA region. Rapid industrialization, particularly in countries such as China and India, has increased the need for liquid ring vacuum pumps in manufacturing, chemical processing, and paper & pulp industries. Furthermore, the region presents potential growth opportunities in the wastewater treatment sector, an offshoot of its escalating urbanization and ongoing industrial expansion.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Liquid Ring Vacuum Pumps Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants,

which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Liquid Ring Vacuum Pumps Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Liquid Ring Vacuum Pumps Market, highlighting leading vendors and their innovative profiles. These include Acme Air Equipments Company Pvt. Ltd., Airtech Vacuum Inc. by IDEX Corporation, Alfa Laval AB, Atlas Copco AB, Azmec S.r.l., Busch Dienste GmbH, Charam Techno Chemical & Equipments (P) Ltd., Cutes Corporation, Devi Hitech Engineers Pvt Ltd., Ebara Corporation, EMTIVAC Engineering Pty. Ltd., Finetech Vacuum Pumps, Flowserve Corporation, Gneuss Kunststofftechnik GmbH, Graham Corporation, Guangdong Kenflo Pump Limited, HIS PUMPS & SYSTEMS PVT. LTD, IMAG Company, INDOVAC PUMPS & ENGINEERING CO., Ingersoll Rand Inc., IVC Pumps Pvt. Ltd., J.B.Sawant Engineering Pvt. Ltd., Kakati Karshak Industries Pvt Ltd., KNF Group, KSB SE & Co. KGaA, Körting Hannover GmbH, Marpa Vacuum S.L., MXQ, LLC, Pfeiffer Vacuum Technology AG, Pompetravaini S.p.A., PPI Pumps Pvt. Ltd., Premier Fluid Systems Inc., PREMIER Pumps Private Limited, Samson Pumps A/S, Shandong CHINCO Pumps Co., Ltd., Somarakis by Triosim Corporation, SPECK Pumpen Verkaufsgesellschaft GmbH, Sulzer Ltd., TMVT Industries Pvt. Ltd., Toshniwal Instruments (Madras) Pvt. Ltd., Tsurumi Manufacturing Co., Ltd., VAKUO GmbH, Vooner by Aerzener Maschinenfabrik GmbH, Zibo Zhaohan Vacuum Pump Co., Ltd., and ZM Vacuum GmbH.

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Market Segmentation & Coverage:

This research report categorizes the Liquid Ring Vacuum Pumps Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Type, market is studied across Single-Stage and Two-Stage. The Single-Stage commanded largest market share of 53.96% in 2022, followed by Two-Stage.

Based on Material Type, market is studied across Cast Iron and Stainless Steel. The Stainless Steel commanded largest market share of 56.21% in 2022, followed by Cast Iron.

Based on Flow Rate, market is studied across 3,000 – 10,000 M3H, 600 – 3,000 M3H, Below 600 M3H, and Over 10,000 M3H. The 3,000 – 10,000 M3H commanded largest market share of 37.42% in 2022, followed by Below 600 M3H.

Based on Application, market is studied across Aerospace & Defence, Automobile, Chemical & Material, Food Manufacturing, Oil & Gas, Pharmaceutical, Power Generation, Pulp & Paper, and Water Treatment. The Oil & Gas commanded largest market share of 16.12% in 2022, followed by Chemical & Material.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Asia-Pacific commanded largest market share of 37.02% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Liquid Ring Vacuum Pumps Market, by Type
7. Liquid Ring Vacuum Pumps Market, by Material Type
8. Liquid Ring Vacuum Pumps Market, by Flow Rate
9. Liquid Ring Vacuum Pumps Market, by Application
10. Americas Liquid Ring Vacuum Pumps Market
11. Asia-Pacific Liquid Ring Vacuum Pumps Market
12. Europe, Middle East & Africa Liquid Ring Vacuum Pumps Market
13. Competitive Landscape
14. Competitive Portfolio
15. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and

analyzes penetration across mature segments of the markets

3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Liquid Ring Vacuum Pumps Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Liquid Ring Vacuum Pumps Market?
3. What is the competitive strategic window for opportunities in the Liquid Ring Vacuum Pumps Market?
4. What are the technology trends and regulatory frameworks in the Liquid Ring Vacuum Pumps Market?
5. What is the market share of the leading vendors in the Liquid Ring Vacuum Pumps Market?
6. What modes and strategic moves are considered suitable for entering the Liquid Ring Vacuum Pumps Market?

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