

Liquid Ring Compressors Market worth \$715.55 million by 2030 - Exclusive Report by 360iResearch

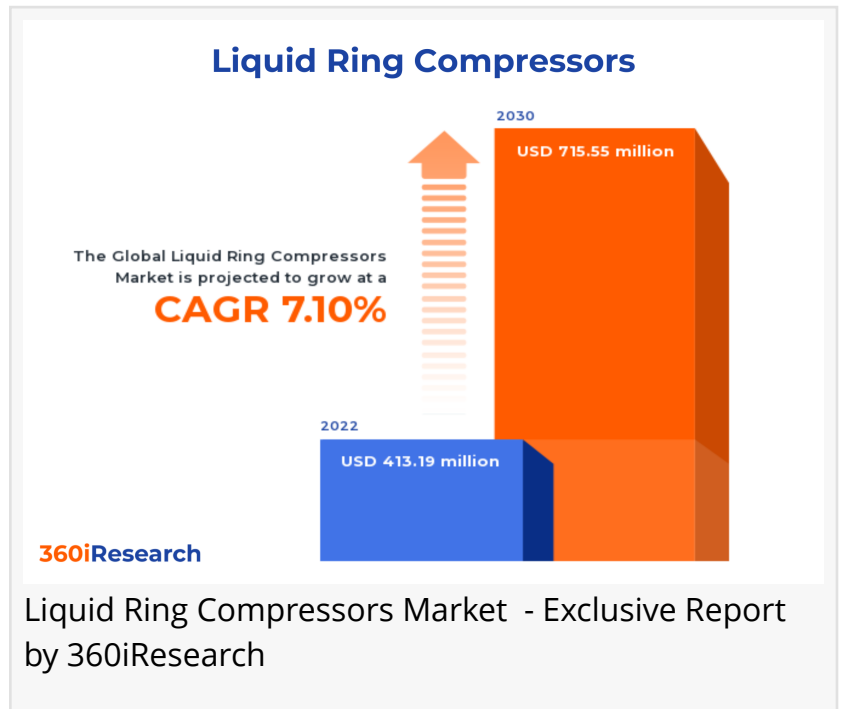
The Global Liquid Ring Compressors Market to grow from USD 413.19 million in 2022 to USD 715.55 million by 2030, at a CAGR of 7.10%.

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EINPresswire.com/ -- The "[Liquid Ring Compressors Market](#) by Type (Double-Acting, Single-Acting), 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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Liquid ring compressors are rotating positive displacement machines that compress gas by an eccentrically placed rotor within a cylindrical casing. The rotating impeller creates centrifugal force, which forms a liquid ring that causes a repetitive compression and reexpansion of the gas. This innovative process radically reduces the heat and friction usually generated in typical compressor systems, providing a considerable advantage over other compressor technologies. The demand for liquid ring compressors in various industries is growing due to their reliability, low maintenance, and safe compression properties. The expansion of oil & gas, power, and chemical industries has been a key driving factor for the growth of the liquid ring compressors market, as these compressors are used in handling toxic, explosive, and corrosive gases. However, high initial investment and the need for a skilled workforce with specialized knowledge for operation and troubleshooting restrict the liquid ring compressors market growth. Moreover,



industrialization across emerging economies, innovations to enhance compressor efficiency, and low maintenance requirements are expected to enhance the demand for liquid ring compressors.

Application: Expansion of liquid ring compressors across the automobile industry in manufacturing process

In the aerospace & defense sector, liquid ring compressors are essential in deep space exploration and military equipment requiring high vacuum levels. Automobile industries have shown an increased preference for using liquid ring compressors in their manufacturing process, automobile cooling technology, and exhaust gas recirculation. In the chemical & material sector, liquid ring compressors are vital in applications that require safe handling of hazardous or explosive gasses. For food manufacturing, liquid ring compressors are used in processes that require hygiene standards, such as vacuum packaging and dehydration. The oil & gas sector intensively uses liquid ring compressors in refining and distillation processes. Liquid ring compressors are crucial for the oil & gas industry, specifically in applications involving flare gas recovery and gas boosting. Pharmaceutical companies require liquid ring compressors to maintain safe and hygienic environments during drug formulation. Power plants use liquid ring compressors for cooling and condensing steam and other gasses. In the pulp & paper industry, liquid ring compressors aid in smoothly operating digesters, bleaches, and deodorizers. Liquid ring compressors are largely applied in the water treatment sector for aeration, boosting pressure, and desulphurizing gasses.

Flow Rate: Rising preference for high flow rates in bigger industries to carry out large scale operations

In the lower range of 25-600 M3H, liquid ring compressors are mainly used in industries such as food processing and pharmaceuticals. This range caters to industries with moderate operational requirements, making it a cost-effective solution for small-scale operations. The 600-3,000 M3H segment is utilized heavily in medium-scale industries, including chemicals and power generation. The 3,000-10,000 M3H range caters to industries with large operational requirements, such as oil & gas, petrochemicals, and pulp & paper. Liquid ring compressors are employed in heavy-duty applications such as mining and metallurgy for the flow rate segment over 10,000 M3H.

Type: Increasing utilization of double-acting liquid ring compressors across industries due to its higher operational efficiency and efficacy

Double-acting liquid ring compressors, functioning through back-and-forth strokes in a double-action process, have been the preference of industries with high volumetric requirements. Their robust mechanism, which enables heightened performance, effectively reduces the risk of leakage and decreases maintenance costs. The single-acting liquid ring compressors, operating through single, direct-action pistons, have traditionally catered to industries, including mining and healthcare, with controlled output needs. Their efficiency is measured through the convenience of operational simplicity, low noise, and vibrational features.

Material Type: Growing significance of stainless steel liquid ring compressors as it enhances the life expectancy

The application of cast iron is highly economical and robust. Cast iron material provides protection against corrosion and effectively increases the compressor's lifespan, which is particularly beneficial in operations with extended running times. Therefore, cast iron ring compressors are preferred in heavy industries and wastewater treatment plants, due to their enhanced properties such as durability. The stainless steel variant of liquid ring compressors is requisite in industries prioritizing sanitation, where the application involves handling sterilized and clean process gasses. Exploratory and operational industries such as pharmaceuticals, food processing, and petrochemical industries are key users in this segment. Other materials, including aluminum and titanium, are used to manufacture liquid ring compressors. Aluminum is one of the primary materials used to manufacture liquid ring compressors due to its high strength-to-weight ratio, making it ideal for fabricating lightweight compressors that maintain high durability levels. This light metal provides high corrosion resistance, which is critical for compressor environments that may often include various liquids and gases that could induce corrosion. Cost-effectiveness and recyclability of aluminum offer benefits, supporting economic efficiency and sustainable manufacturing practices. Titanium is used in liquid ring compressor manufacturing owing to its high strength and ability to withstand high-pressure operations. Titanium has improved corrosion resistance, making it suitable for environments and ensuring a longer operational lifespan.

Regional Insights:

The liquid ring compressors market in the Americas has been showing a consistent growth rate, driven primarily by the increasing demand in the industrial sector. The United States is the major contributor, owing to the growth of the oil & gas, food & beverages, and wastewater management industry, where liquid ring compressors are predominantly used. Factors such as industrialization, strict environmental regulations leading to an increased demand for efficient wastewater treatment, and the burgeoning power sector contribute to the market growth. Europe's liquid ring compressors regional market is experiencing a surge in demand due to the expansion of the pharmaceutical and biotechnology sectors. Moreover, the Middle East's thriving oil & gas industry further propelled the demand for liquid ring compressors in the EMEA region. However, APAC is currently the most promising market for liquid ring compressors, with countries including China, India, Japan, and South Korea witnessing rapid industrial growth. Furthermore, development in several industries, such as pulp and paper, marine industry, and petrochemicals, is leading to a surge in demand for liquid ring compressors.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Liquid Ring Compressors 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 Compressors 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 Compressors Market, highlighting leading vendors and their innovative profiles. These include Acme Air Equipments Company Pvt. Ltd., Atlas Copco AB, Azmec S.r.l., Busch Group, Charam Techno Chemical & Equipments (P) Ltd., Devi Hitech Engineers Pvt Ltd., EMTIVAC Engineering Pty. Ltd., Flowserve Corporation, Garuda Pumps, Graham Corporation, Guangdong Kenflo Pump Co.,Ltd., Ingersoll Rand Inc., IVC Pumps Pvt. Ltd., Kakati Karshak Industries Pvt. Ltd., KSB SE & Co. KGaA, Marpa Vacuum S.L., Pars Vacuum Industries Co., Pompetravaini S.p.A., Premier Fluid Systems Inc., SAFEM, Shandong CHINCO Pumps Co., Ltd., Shanghai EVP Vacuum Technology Co.,Ltd., Somarakis Inc. by Triosim Corporation, Sulzer Ltd., TMVT Industries Pvt. Ltd., Torr Vacuum Solution, TSURUMI MANUFACTURING CO., LTD., VACUNAIR ENGINEERING CO. PVT. LTD., VAKUO GmbH, Void Pump Industries, Zibo Vacuum Equipment Plant Co.,Ltd., and ZM Vacuum GmbH.

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Market Segmentation & Coverage:

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

Based on Type, market is studied across Double-Acting and Single-Acting. The Double-Acting commanded largest market share of 54.66% in 2022, followed by Single-Acting.

Based on Material Type, market is studied across Cast Iron and Stainless Steel. The Stainless Steel commanded largest market share of 59.32% 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 33.53% in 2022, followed by 600 – 3,000 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 Power Generation.

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 Compressors Market, by Type
7. Liquid Ring Compressors Market, by Material Type
8. Liquid Ring Compressors Market, by Flow Rate
9. Liquid Ring Compressors Market, by Application
10. Americas Liquid Ring Compressors Market
11. Asia-Pacific Liquid Ring Compressors Market
12. Europe, Middle East & Africa Liquid Ring Compressors 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 Compressors Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Liquid Ring Compressors Market?
3. What is the competitive strategic window for opportunities in the Liquid Ring Compressors Market?
4. What are the technology trends and regulatory frameworks in the Liquid Ring Compressors Market?
5. What is the market share of the leading vendors in the Liquid Ring Compressors Market?
6. What modes and strategic moves are considered suitable for entering the Liquid Ring Compressors Market?

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