

# Liquid Ring Vacuum Pump Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

<https://marketpublishers.com/r/LE1AA22977BFEN.html>

Date: September 2024

Pages: 161

Price: US\$ 4,850.00 (Single User License)

ID: LE1AA22977BFEN

## Abstracts

The Global Liquid Ring Vacuum Pump Market was valued at USD 692.5 million in 2023 and is projected to grow at a CAGR of 3.9% from 2024 to 2032. This growth is largely driven by the rising demand from various process industries such as chemical, pharmaceutical, and food processing. These pumps are known for their versatility, being able to handle gases with high moisture content and streams containing particles, making them essential in several industrial applications. As industrial production scales up, the need for efficient and reliable vacuum systems rises. Liquid ring vacuum pumps are preferred for their energy efficiency, consuming less power compared to other vacuum systems.

Additionally, stringent environmental regulations are pushing industries to adopt technologies that lower emissions, further supporting the growth of the liquid ring vacuum pump market. The market is categorized by type into single-stage and two-stage pumps. In 2023, the two-stage segment led the market, accounting for 58.4% of the total share, and is forecasted to continue dominating, reaching USD 581.6 million by 2032. Two-stage pumps are favored for their superior performance and efficiency, achieving higher vacuum levels compared to single-stage models. This makes them particularly suitable for industries with strict vacuum requirements, such as pharmaceuticals, food manufacturing, and chemical processing.

The stainless-steel segment held the largest market share in 2023, at 55.3%, and is expected to maintain its lead, with a projected valuation of USD 327.8 million by 2032. Stainless steel is highly valued in this market due to its strong resistance to corrosion, making it ideal for handling aggressive gases and fluids, which is critical in industries like chemical processing and pharmaceuticals. The Asia-Pacific (APAC) region is the leading market for liquid ring vacuum pumps, with a projected CAGR of 4.2%, and is expected to reach USD 382.1 million by 2032. This dominance is fueled by rapid

industrialization across countries like China, India, and Southeast Asian nations. The growing demand for industrial equipment, driven by significant investments in infrastructure, manufacturing, and chemical processing industries, is boosting the adoption of liquid ring vacuum pumps in the region.

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