

Global Liquid Ring Vacuum Pumping Instrument Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Ring Vacuum Pumping Instrument market size is expected to reach \$ 1004 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032).

Liquid ring vacuum pumping instrument (usually referred to as liquid ring vacuum pump or liquid ring compressor) is a volumetric vacuum acquisition device that uses liquid (usually water or oil) as the working medium. Its working principle is that the impeller is eccentrically installed inside the pump body. When the impeller rotates, the liquid injected into the pump body forms a liquid ring concentric with the pump body under the action of centrifugal force. The volume between the liquid ring and the impeller blades undergoes periodic changes, forming a vacuum in the suction area to suck in gas, and compressing the gas in the exhaust area to discharge it, thus achieving the purpose of pumping. This instrument is particularly suitable for extracting crude vacuum scenarios containing large amounts of water vapor, dust, or condensable gases (working pressure range is usually 33-1013 mbar), and is widely used in vacuum filtration, drying, evaporation, distillation and other processes in industries such as chemical, pharmaceutical, papermaking, and power.

The industrial chain of liquid ring vacuum pumping instruments covers upstream raw materials and core components (such as motors, castings, seals, impellers, bearings, and other mechanical parts), midstream research and development, design, and integrated manufacturing of liquid ring vacuum pumps and systems, as well as downstream application fields (including industries requiring rough vacuum technology such as petrochemicals, power, pharmaceuticals, food packaging, papermaking, metallurgy, coal mining, etc.). Regarding the gross profit margin, the specific gross profit margin values for the liquid ring vacuum pump industry were not disclosed in the search

results. However, multiple industry reports have listed 'sales gross profit margin' as a key monitoring indicator and pointed out that there are differences in gross profit margins among enterprises of different sizes and ownerships. Moreover, the gross profit margin level of mid-range equipment manufacturers is greatly influenced by technological content, product types (single/two-level), and customization level.

The average price of liquid ring vacuum pumping instruments in 2025 is \$4200 per unit, with a sales volume of 178.8 k units. The total production capacity of liquid ring vacuum pumping instruments in 2025 is 251 k units.

The core concept of liquid ring vacuum pumping instruments is that they have become indispensable 'coarse vacuum' equipment in process industries such as chemical, pharmaceutical, and papermaking due to their unique structure that can withstand moisture, dust, and condensable steam. Its market growth is driven by two key trends: one is the technological iteration of the equipment itself, which upgrades from traditional fixed speed to intelligent and energy-saving systems equipped with variable frequency drives (VSDs), and integrates the Internet of Things to achieve predictive maintenance; The second is the structural change in external demand. The growth of capital expenditures in the global oil and gas sector provides the basic demand for the market, while increasingly strict environmental regulations are forcing companies to adopt closed-loop water systems to reduce emissions and resource consumption, which endows liquid environmental technology with new value in the context of sustainable development.

This report studies the global Liquid Ring Vacuum Pumping Instrument production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Ring Vacuum Pumping Instrument and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Liquid Ring Vacuum Pumping Instrument that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Ring Vacuum Pumping Instrument total production and demand, 2021-2032, (K Units)

Global Liquid Ring Vacuum Pumping Instrument total production value, 2021-2032, (USD Million)

Global Liquid Ring Vacuum Pumping Instrument production by region & country,

production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Liquid Ring Vacuum Pumping Instrument consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Liquid Ring Vacuum Pumping Instrument domestic production, consumption, key domestic manufacturers and share

Global Liquid Ring Vacuum Pumping Instrument production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Liquid Ring Vacuum Pumping Instrument production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Liquid Ring Vacuum Pumping Instrument production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Liquid Ring Vacuum Pumping Instrument market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Atlas Copco, Busch Vacuum Solutions, Gardner Denver Nash (Ingersoll Rand), Flowserve Corporation, Pfeiffer Vacuum, Edwards Vacuum (Atlas Copco), Tsurumi Manufacturing, Osaka Vacuum, Ebara Corporation, Tuthill Vacuum & Blower Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Liquid Ring Vacuum Pumping Instrument market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Liquid Ring Vacuum Pumping Instrument Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Ring Vacuum Pumping Instrument Market, Segmentation by Type:

Single-Stage Pump

Double Stage Pump

Global Liquid Ring Vacuum Pumping Instrument Market, Segmentation by Structure of Intake and Exhaust Channel:

Cone Pump

Flat Plate Pump

Global Liquid Ring Vacuum Pumping Instrument Market, Segmentation by Working Fluid Type:

Water Ring Vacuum Pump

Oil Ring Vacuum Pump

Corrosion Resistant Liquid Ring Pump

Global Liquid Ring Vacuum Pumping Instrument Market, Segmentation by Application:

Manufacturing

Energy

Others

Companies Profiled:

Atlas Copco

Busch Vacuum Solutions

Gardner Denver Nash (Ingersoll Rand)

Flowserve Corporation

Pfeiffer Vacuum

Edwards Vacuum (Atlas Copco)

Tsurumi Manufacturing

Osaka Vacuum

Ebara Corporation

Tuthill Vacuum & Blower Systems

Becker Pumps

Dekker Vacuum Technologies

Graham Corp

Travaini (Pompetravaini)

Sterling SIHI

Guangdong Kenflo Pump

Hubei Shenlong Pump

Yantai Toncin Group

Wenling Tingwei Vacuum Equipment

Zhejiang Kaishan Compressor

Key Questions Answered:

1. How big is the global Liquid Ring Vacuum Pumping Instrument market?
2. What is the demand of the global Liquid Ring Vacuum Pumping Instrument market?
3. What is the year over year growth of the global Liquid Ring Vacuum Pumping Instrument market?
4. What is the production and production value of the global Liquid Ring Vacuum Pumping Instrument market?
5. Who are the key producers in the global Liquid Ring Vacuum Pumping Instrument market?
6. What are the growth factors driving the market demand?

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