

# **Liquid Ring Vacuum Pumps Market by Type (Single-stage, Two-stage), Material Type (Stainless Steel, Cast Iron, Others), Flow Rate (25 – 600 M3H; 600 – 3,000 M3H; 3,000 – 10,000 M3H; Over 10,000 M3H), Application, and Region - Global Forecast to 2026**

<https://marketpublishers.com/r/LD9AE242674FEN.html>

Date: November 2021

Pages: 209

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

ID: LD9AE242674FEN

## **Abstracts**

The liquid ring vacuum pumps market size was USD 1.8 billion in 2020 and is projected to reach USD 2.4 billion by 2026, at a CAGR of 5.5% from 2021 to 2026. Increasing demand for liquid ring vacuum pumps for various applications in oil & gas and petroleum industry is driving the growth of this market.

Liquid ring vacuum pumps are rotary displacement machines, which includes a liquid ring vacuum pump and a liquid ring compressor. These pumps offer various advantages such as simple structure, and liquid-sealing, and isothermal compression process, and ease of handling. Owing to these advantages, liquid ring vacuum pumps are widely applied in petroleum, chemical, power, metallurgy, pharmaceutical, and light industries.

“Two-stage segment is expected to dominate the liquid ring vacuum pumps market during 2021-2026”

By type, two-stage segment is projected to lead the market. This segment is growing owing to the rise in investments being made to carry out industrialization in the Asia Pacific region, along with the increased demand for two-stage liquid ring vacuum pumps across industries.

“Stainless steel segment is expected to dominate the liquid ring vacuum pumps market, by material type, during the forecast period”

Based on material type, stainless steel segment is estimated to account for the largest share of the overall liquid ring vacuum pumps market, in terms of value, in 2020. Characteristics such as high cavitation resistance that enhances the life expectancy of liquid ring vacuum pump is expected to enhance the demand for stainless steel liquid ring vacuum pumps during the forecast period.

“600-3000 m<sup>3</sup>/h segment is expected to dominate the liquid ring vacuum pumps market during 2021-2026”

By flow rate, the 600-3000 m<sup>3</sup>/h segment accounted for the largest share of the market, in terms of value, in 2020. The liquid ring vacuum pumps with a flow rate of 600-3000 m<sup>3</sup>/h and 3,000-10,000 m<sup>3</sup>/h are considered medium capacity liquid ring vacuum pumps. Steadily growing demand for industrial vacuum applications, mainly from the chemical, pulp & paper, and power generation industries, is aiding in the growth of this segment.

“Asia Pacific is expected to dominate the liquid ring vacuum pumps market during 2021-2026”

Asia Pacific dominated the global liquid ring vacuum pumps market in 2020. Industrial activities are growing in this region owing to low manufacturing costs and support of local governments. Also, increasing investments in research and development activities are driving the liquid ring vacuum pumps market in Asia Pacific.

Profile break-up of primary participants for the report:

By Company Type: Tier 1 – 65%, Tier 2 – 20%, and Tier 3 – 15%

By Designation: C Level – 25%, Director Level – 30%, and Others – 45%

By Region: Asia Pacific – 40%, North America – 30%, Europe – 20%, Middle East & Africa – 7%, South America – 3%

The key market players include Busch Vacuum Solutions (Germany), Flowserve Corporation (US), Atlas Copco (Sweden), Ingersoll Rand (US), Tsurumi Manufacturing Co., Ltd (US), DEKKER Vacuum Technologies, Inc. (US), Vooner (US), Graham Corporation (US), Cutes Corp. (China), Zibo Zhaohan Vacuum Pump Co., Ltd (China), OMEL (Brazil), PPI Pumps Pvt. Ltd. (Mexico), Samson Pumps (Denmark), and Speck

(Germany). These players have adopted product launches, agreements, acquisitions, mergers & acquisitions, and expansions as their growth strategies.

#### Research Coverage:

The report defines, segments, and projects the liquid ring vacuum pumps market based on type, material type, flow rate, application, and region. It provides detailed information regarding the major factors influencing the growth of the market, such as drivers, restraints, opportunities, and challenges. It analyzes competitive developments, such as product launches, agreements, acquisitions, mergers & acquisitions, and expansions, undertaken by the players in the market.

#### Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants in the market by providing them the closest approximations of revenue numbers of the liquid ring vacuum pumps market and its segments. This report is also expected to help stakeholders obtain an improved understanding of the competitive landscape of the market, gain insights to improve the position of their businesses and make suitable go-to-market strategies. It also enables stakeholders to understand the pulse of the market and provide them information on key market drivers, restraints, challenges, and opportunities.

## Contents

### 1 INTRODUCTION

1.1 OBJECTIVE OF THE STUDY

1.2 MARKET DEFINITION

1.3 MARKET SCOPE

1.3.1 LIQUID RING VACUUM PUMPS MARKET SEGMENTATION

1.3.2 REGIONS COVERED

1.4 INCLUSIONS & EXCLUSIONS

1.4.1 LIQUID RING VACUUM PUMPS MARKET, BY REGION: INCLUSIONS & EXCLUSIONS

1.4.2 YEARS CONSIDERED FOR THE STUDY

1.5 CURRENCY

1.6 LIMITATIONS

1.7 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 LIQUID RING VACUUM PUMPS MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of primary interviews

2.2 MATRIX CONSIDERED FOR DEMAND-SIDE

FIGURE 2 MAIN MATRIX CONSIDERED WHILE CONSTRUCTING AND ASSESSING DEMAND FOR LIQUID RING VACUUM PUMPS

2.3 MARKET SIZE ESTIMATION

2.3.1 BOTTOM-UP APPROACH

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.3.2 TOP-DOWN APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 5 METHODOLOGY FOR SUPPLY-SIDE SIZING OF LIQUID RING VACUUM PUMPS MARKET

FIGURE 6 METHODOLOGY FOR SUPPLY-SIDE SIZING OF LIQUID RING VACUUM PUMPS MARKET (2/2)

2.3.2.1 Calculations for supply-side analysis

### 2.3.3 FORECAST

## 2.4 GROWTH RATE ASSUMPTIONS/GROWTH FORECAST

## 2.5 DATA TRIANGULATION

### FIGURE 7 LIQUID RING VACUUM PUMPS MARKET: DATA TRIANGULATION

#### 2.5.1 KEY ASSUMPTIONS WHILE CALCULATING DEMAND-SIDE MARKET SIZE

#### 2.5.2 LIMITATIONS

#### 2.5.3 RISK ANALYSIS

## 3 EXECUTIVE SUMMARY

FIGURE 8 OIL & GAS TO BE THE LARGEST APPLICATION SEGMENT

FIGURE 9 STAINLESS STEEL SEGMENT TO ACCOUNT FOR THE LARGEST SHARE OF THE LIQUID RING VACUUM PUMPS MARKET

FIGURE 10 ASIA PACIFIC TO REGISTER THE HIGHEST CAGR

## 4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN THE LIQUID RING VACUUM PUMPS MARKET

FIGURE 11 GROWING INDUSTRIALIZATION IN EMERGING ECONOMIES SUCH AS INDIA AND CHINA TO BOOST THE MARKET

4.2 LIQUID RING VACUUM PUMPS MARKET, BY APPLICATION

FIGURE 12 OIL & GAS SEGMENT TO LEAD THE LIQUID RING VACUUM PUMPS MARKET DURING THE FORECAST PERIOD

4.3 LIQUID RING VACUUM PUMPS MARKET, BY FLOW RATE

FIGURE 13 THE FLOW RATE OF 600-3000 M<sup>3</sup>/H TO BE THE LARGEST SEGMENT OF THE MARKET IN 2021

4.4 LIQUID RING VACUUM PUMPS MARKET, BY REGION

FIGURE 14 ASIA PACIFIC TO LEAD THE LIQUID RING VACUUM PUMPS MARKET DURING THE FORECAST PERIOD

4.5 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET, BY TYPE AND COUNTRY, 2021

FIGURE 15 CHINA AND TWO-STAGE SEGMENT TO ACCOUNT FOR THE LARGEST SHARES

## 5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

## FIGURE 16 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN THE LIQUID RING VACUUM PUMPS MARKET

### 5.2.1 DRIVERS

#### 5.2.1.1 Rise in energy consumption

## FIGURE 17 GLOBAL ELECTRICITY CONSUMPTION, 2016–2020

## FIGURE 18 ELECTRICITY GENERATION OF SOME MAJOR COUNTRIES, 2016–2020

## FIGURE 19 ELECTRICITY GENERATION FROM NUCLEAR POWER PLANTS, 2017–2019

## FIGURE 20 ELECTRICITY GENERATION FROM COAL POWER PLANTS, 2017–2019

#### 5.2.1.2 Low maintenance and operational cost

#### 5.2.1.3 Gas transportation sector gaining momentum

## FIGURE 21 US: NATURAL GAS EXPORT, 2016–2020

## FIGURE 22 IMPACT OF DRIVERS ON THE LIQUID RING VACUUM PUMPS MARKET

### 5.2.2 RESTRAINTS

#### 5.2.2.1 Declining LNG imports in Japan and South Korea

## FIGURE 23 JAPAN: LNG IMPORT, 2019–2020

#### 5.2.2.2 Rising issues regarding water conservation

## FIGURE 24 IMPACT OF RESTRAINTS ON THE LIQUID RING VACUUM PUMPS MARKET

### 5.2.3 OPPORTUNITIES

#### 5.2.3.1 Growing demand for environment-friendly compressors

## FIGURE 25 IMPACT OF OPPORTUNITIES ON THE LIQUID RING VACUUM PUMPS MARKET

### 5.2.4 CHALLENGES

#### 5.2.4.1 Adherence to strict quality standards

## FIGURE 26 IMPACT OF DRIVERS ON THE LIQUID RING VACUUM PUMPS MARKET

## 5.3 PORTER'S FIVE FORCES ANALYSIS

## FIGURE 27 LIQUID RING VACUUM PUMPS MARKET: PORTER'S FIVE FORCES ANALYSIS

## TABLE 1 LIQUID RING VACUUM PUMPS MARKET: PORTER'S FIVE FORCES ANALYSIS

### 5.3.1 BARGAINING POWER OF SUPPLIERS

### 5.3.2 BARGAINING POWER OF BUYERS

### 5.3.3 THREAT OF SUBSTITUTES

5.3.4 THREAT OF NEW ENTRANTS

5.3.5 INTENSITY OF COMPETITIVE RIVALRY

5.4 ECOSYSTEM

FIGURE 28 LIQUID RING VACUUM PUMPS ECOSYSTEM

TABLE 2 LIQUID RING VACUUM PUMPS: ECOSYSTEM

5.5 REGULATORY LANDSCAPE

5.5.1 EEMUA PUB NO 151 - LIQUID RING VACUUM PUMPS AND COMPRESSORS

5.5.2 PIP RESP004 - LIQUID RING VACUUM PUMPS AND COMPRESSORS

SPECIFICATION

5.5.3 PIP RESP004 - LIQUID RING VACUUM PUMPS AND COMPRESSORS

SPECIFICATION

5.5.4 API STD 681 - LIQUID RING VACUUM PUMPS AND COMPRESSORS FOR  
PETROLEUM, CHEMICAL, AND GAS INDUSTRY SERVICES

5.5.5 DS/EN 1012-1 - COMPRESSORS AND VACUUM PUMPS - SAFETY  
REQUIREMENTS - PART 1: AIR COMPRESSORS

5.5.6 EN 1012-2 - COMPRESSORS AND VACUUM PUMPS - SAFETY  
REQUIREMENTS - PART 2: VACUUM PUMPS

5.5.7 DS/EN 1012-3 - COMPRESSORS AND VACUUM PUMPS - SAFETY  
REQUIREMENTS - PART 3: PROCESS COMPRESSORS

5.5.8 PRESSURE EQUIPMENT SAFETY - EU DIRECTIVE 87/404/EC, SIMPLE  
PRESSURE VESSELS

5.5.9 ENVIRONMENT - EN ISO 2151:2004, NOISE TEST CODE FOR  
COMPRESSORS AND VACUUM PUMPS

5.6 TECHNOLOGY ANALYSIS

5.7 VALUE CHAIN ANALYSIS

FIGURE 29 LIQUID RING VACUUM PUMPS VALUE CHAIN ANALYSIS

5.7.1 RAW MATERIAL PROVIDERS/SUPPLIERS

5.7.2 COMPONENT MANUFACTURERS

5.7.3 LIQUID RING VACUUM PUMPS MANUFACTURERS/ASSEMBLERS

5.7.4 DISTRIBUTERS (BUYERS)/END USERS AND POST-SALES SERVICES

## **6 LIQUID RING VACUUM PUMPS PATENT ANALYSIS**

6.1 INTRODUCTION

6.2 METHODOLOGY

6.3 DOCUMENT TYPE

FIGURE 30 NUMBER OF GRANTED PATENTS, PATENT APPLICATIONS, AND  
LIMITED PATENTS

FIGURE 31 PUBLICATION TRENDS - LAST 10 YEARS

## 6.4 INSIGHTS

FIGURE 32 LEGAL STATUS OF PATENTS

## 6.5 JURISDICTION ANALYSIS

FIGURE 33 TOP JURISDICTION- BY DOCUMENT

FIGURE 34 TOP 10 COMPANIES/APPLICANTS WITH THE HIGHEST NUMBER OF PATENTS

TABLE 3 LIST OF PATENTS BY GARDNER DENVER NASH LLC.

TABLE 4 LIST OF PATENTS BY WOODWARD, INC.

TABLE 5 LIST OF PATENTS BY EDWARDS LTD.

TABLE 6 TOP 10 PATENT OWNERS (US) IN THE LAST 10 YEARS

## 7 COVID-19 IMPACT ON LIQUID RING VACUUM PUMPS ECOSYSTEM

### 7.1 INTRODUCTION

7.2 EFFECT OF COVID-19 ON LIQUID RING VACUUM PUMP APPLICATION SEGMENTS

#### 7.2.1 OIL & GAS

FIGURE 35 PRODUCER PRICE INDEX (PPI) FOR CRUDE PETROLEUM, DECEMBER

### 2019 - AUGUST 2020

#### 7.2.2 PHARMACEUTICAL

#### 7.2.3 FOOD MANUFACTURING

#### 7.2.4 POWER GENERATION

FIGURE 36 ANNUAL AVERAGE GROWTH RATES OF ELECTRICITY DEMAND IN SELECTED COUNTRIES/REGIONS, 2019-2020

7.3 EFFECT OF COVID-19 ON REGIONS

#### 7.3.1 ASIA PACIFIC

#### 7.3.2 EUROPE

#### 7.3.3 NORTH AMERICA

#### 7.3.4 MIDDLE EAST & AFRICA

#### 7.3.5 SOUTH AMERICA

## 8 LIQUID RING VACUUM PUMPS MARKET, BY TYPE

### 8.1 INTRODUCTION

FIGURE 37 TWO-STAGE SEGMENT TO LEAD THE LIQUID RING VACUUM PUMPS MARKET DURING THE FORECAST PERIOD



TABLE 7 LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2017–2019 (USD MILLION)

TABLE 8 LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2020–2026 (USD MILLION)

## 8.2 SINGLE-STAGE

8.2.1 LOW COST OF SINGLE-STAGE LIQUID RING VACUUM PUMPS TO ENHANCE THE DEMAND

## 8.3 TWO-STAGE

8.3.1 HIGH EFFICIENCY AT HIGHER VACUUM LEVELS TO DRIVE THE MARKET FOR THIS SEGMENT

# 9 LIQUID RING VACUUM PUMPS MARKET, BY MATERIAL TYPE

## 9.1 INTRODUCTION

FIGURE 38 STAINLESS STEEL SEGMENT TO LEAD THE LIQUID RING VACUUM PUMPS MARKET DURING THE FORECAST PERIOD

TABLE 9 LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2017–2019 (USD MILLION)

TABLE 10 LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2020–2026 (USD MILLION)

## 9.2 CAST IRON

9.2.1 LOW COST OF CAST IRON TO PROPEL THE MARKET IN THIS SEGMENT

## 9.3 STAINLESS STEEL

9.3.1 HIGH CORROSION RESISTANCE AND LOW CAVITATION OF STAINLESS STEEL TO PROPEL THE MARKET

## 9.4 OTHERS

# 10 LIQUID RING VACUUM PUMPS MARKET, BY FLOW RATE

## 10.1 INTRODUCTION

FIGURE 39 600-3000 M<sup>3</sup>/H SEGMENT TO LEAD THE LIQUID RING VACUUM PUMPS MARKET DURING THE FORECAST PERIOD

TABLE 11 LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2017–2019 (USD MILLION)

TABLE 12 LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2020–2026 (USD MILLION)

## 10.2 25-600 M<sup>3</sup>/H

10.2.1 INCREASING DEMAND FROM PLASTIC MANUFACTURING AND MEDICAL TECHNOLOGIES SECTORS TO SUPPORT MARKET GROWTH

10.3 600-3,000 M3/H AND 3,000-10,000 M3/H

10.3.1 HIGH DEMAND FROM PULP & PAPER, OIL & GAS, POWER GENERATION, AND CHEMICAL INDUSTRIES TO FUEL THE GROWTH OF THIS SEGMENT

10.4 ABOVE 10,000 M3/H

10.4.1 HIGH DEMAND FROM THE MINERAL ORE PROCESSING INDUSTRY TO DRIVE THE MARKET

## **11 LIQUID RING VACUUM PUMPS MARKET, BY APPLICATION**

11.1 INTRODUCTION

FIGURE 40 OIL & GAS SEGMENT TO LEAD THE LIQUID RING VACUUM PUMPS MARKET DURING THE FORECAST PERIOD

TABLE 13 LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 14 LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

11.2 PETROCHEMICAL & CHEMICAL

11.2.1 INCREASING DEMAND FOR PLASTICS AND FERTILISERS TO DRIVE THE MARKET

11.3 FOOD MANUFACTURING

11.3.1 GROWING POPULATION BASE AND CHANGING CONSUMER LIFESTYLE TO ENHANCE THE DEMAND

11.4 AIRCRAFT

11.4.1 GROWTH IN THE AIRCRAFT INDUSTRY TO FUEL THE DEMAND FOR LIQUID RING VACUUM PUMPS

11.5 AUTOMOBILE

11.5.1 GROWING MIDDLE-CLASS POPULATION FUELING THE AUTOMOBILE INDUSTRY

11.6 PHARMACEUTICAL

11.6.1 GROWING PRODUCTION OF MEDICINES AND VACCINES DUE TO COVID-19

TO DRIVE THE MARKET

11.7 WATER TREATMENT

11.7.1 DEVELOPMENT OF WATER TREATMENT PLANTS WITH A GROWING POPULATION TO BOOST THE DEMAND FOR LIQUID RING VACUUM PUMPS

11.8 OIL & GAS

11.8.1 GROWING INVESTMENTS IN CRUDE OIL IN THE MIDDLE EAST AND NORTH AMERICA TO SPUR MARKET GROWTH

11.9 POWER GENERATION

11.9.1 GROWING POPULATION AND INCREASED GLOBAL DEMAND FOR POWER

TO BOOST THE MARKET

11.10 PULP & PAPER

11.10.1 INCREASED REQUIREMENT OF PAPER AND PAPERBOARD FOR PACKAGING APPLICATIONS TO DRIVE THE MARKET

11.11 EPS AND PLASTICS

11.11.1 GROWING USAGE OF PLASTICS ACROSS THE WORLD TO BOOST THE DEMAND

11.12 OTHERS

## **12 LIQUID RING VACUUM PUMPS MARKET, BY REGION**

12.1 INTRODUCTION

FIGURE 41 ASIA PACIFIC TO LEAD THE MARKET DURING THE FORECAST PERIOD

TABLE 15 LIQUID RING VACUUM PUMPS MARKET SIZE, BY REGION, 2017–2019 (USD MILLION)

TABLE 16 LIQUID RING VACUUM PUMPS MARKET SIZE, BY REGION, 2020–2026 (USD MILLION)

12.2 ASIA PACIFIC

FIGURE 42 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SNAPSHOT

TABLE 17 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2017–2019 (USD MILLION)

TABLE 18 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2020–2026 (USD MILLION)

TABLE 19 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2017–2019 (USD MILLION)

TABLE 20 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2020–2026 (USD MILLION)

TABLE 21 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2017–2019 (USD MILLION)

TABLE 22 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2020–2026 (USD MILLION)

TABLE 23 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 24 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

TABLE 25 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY

COUNTRY, 2017–2019 (USD MILLION)

TABLE 26 ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

#### 12.2.1 CHINA

12.2.1.1 growing population and increasing investment in power sector to propel the market

TABLE 27 CHINA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 28 CHINA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.2.2 SOUTH KOREA

12.2.2.1 increasing spending on the water and wastewater infrastructures to propel the demand

TABLE 29 SOUTH KOREA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 30 SOUTH KOREA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.2.3 INDIA

12.2.3.1 growth in conventional energy generation to increase the demand for liquid ring vacuum pumps

TABLE 31 INDIA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 32 INDIA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.2.4 JAPAN

12.2.4.1 Rapid aging population leads to growth in pharmaceutical sector which is expected to enhance the demand for liquid ring vacuum pumps

TABLE 33 JAPAN: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 34 JAPAN: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.2.5 AUSTRALIA & NEW ZEALAND

12.2.5.1 Growth in power sector to boost the market

TABLE 35 AUSTRALIA & NEW ZEALAND: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 36 AUSTRALIA & NEW ZEALAND: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.2.6 SOUTHEAST ASIA

12.2.6.1 Exploration of oil reserves in Thailand and growth in power sector to drive

the market

TABLE 37 SOUTHEAST ASIA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 38 SOUTHEAST ASIA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.2.7 REST OF ASIA PACIFIC

TABLE 39 REST OF ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 40 REST OF ASIA PACIFIC: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.3 NORTH AMERICA

FIGURE 43 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SNAPSHOT

TABLE 41 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2017–2019 (USD MILLION)

TABLE 42 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2020–2026 (USD MILLION)

TABLE 43 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2017–2019 (USD MILLION)

TABLE 44 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2020–2026 (USD MILLION)

TABLE 45 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2017–2019 (USD MILLION)

TABLE 46 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2020–2026 (USD MILLION)

TABLE 47 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 48 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

TABLE 49 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 50 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

##### 12.3.1 US

12.3.1.1 Increased shale gas exploration activities to boost the demand

TABLE 51 US: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 52 US: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

### 12.3.2 CANADA

12.3.2.1 Investment in water & wastewater treatment projects to increase the use of liquid ring vacuum pumps in the country

TABLE 53 CANADA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 54 CANADA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

### 12.3.3 MEXICO

12.3.3.1 Ongoing industrialization and growing population to fuel the demand

TABLE 55 MEXICO: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 56 MEXICO: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

### 12.4 EUROPE

FIGURE 44 EUROPE: LIQUID RING VACUUM PUMPS MARKET SNAPSHOT

TABLE 57 EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2017–2019 (USD MILLION)

TABLE 58 EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2020–2026 (USD MILLION)

TABLE 59 EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2017–2019 (USD MILLION)

TABLE 60 EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2020–2026 (USD MILLION)

TABLE 61 EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2017–2019 (USD MILLION)

TABLE 62 NORTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2017–2019 (USD MILLION)

TABLE 63 EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2020–2026 (USD MILLION)

TABLE 64 EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 65 EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

TABLE 66 EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 67 EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

### 12.4.1 GERMANY

12.4.1.1 Investment in the oil & gas supply infrastructure to drive the market

TABLE 68 GERMANY: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 69 GERMANY: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.4.2 FRANCE

12.4.2.1 automobiles and chemicals & petrochemicals are the major industries to boost the market

TABLE 70 FRANCE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 71 FRANCE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.4.3 UK

12.4.3.1 Growth in food & beverage industry to create demand for liquid ring vacuum pumps

TABLE 72 UK: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 73 UK: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.4.4 RUSSIA

12.4.4.1 Rising automotive sector to enhance the demand for liquid ring vacuum pumps in the country

TABLE 74 RUSSIA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 75 RUSSIA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.4.5 TURKEY

12.4.5.1 Low cost of single-stage liquid ring vacuum pump to contribute to market growth

TABLE 76 TURKEY: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 77 TURKEY: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.4.6 SCANDINAVIA

12.4.6.1 Growing power consumption contributing to huge demand for liquid ring vacuum pumps

TABLE 78 SCANDINAVIA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 79 SCANDINAVIA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.4.7 REST OF EUROPE

TABLE 80 REST OF EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 81 REST OF EUROPE: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

#### 12.5 MIDDLE EAST & AFRICA

TABLE 82 MIDDLE EAST & AFRICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2017–2019 (USD MILLION)

TABLE 83 MIDDLE EAST & AFRICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2020–2026 (USD MILLION)

TABLE 84 MIDDLE EAST & AFRICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2017–2019 (USD MILLION)

TABLE 85 MIDDLE EAST & AFRICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2020–2026 (USD MILLION)

TABLE 86 MIDDLE EAST & AFRICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2017–2019 (USD MILLION)

TABLE 87 MIDDLE EAST & AFRICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2020–2026 (USD MILLION)

TABLE 88 MIDDLE EAST & AFRICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 89 MIDDLE EAST & AFRICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

TABLE 90 MIDDLE EAST & AFRICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 91 MIDDLE EAST & AFRICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

#### 12.6 SOUTH AMERICA

TABLE 92 SOUTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2017–2019 (USD MILLION)

TABLE 93 SOUTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY TYPE, 2020–2026 (USD MILLION)

TABLE 94 SOUTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2017–2019 (USD MILLION)

TABLE 95 SOUTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY FLOW RATE, 2020–2026 (USD MILLION)

TABLE 96 SOUTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2017–2019 (USD MILLION)

TABLE 97 SOUTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY MATERIAL TYPE, 2020–2026 (USD MILLION)



TABLE 98 SOUTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2017–2019 (USD MILLION)

TABLE 99 SOUTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY APPLICATION, 2020–2026 (USD MILLION)

TABLE 100 SOUTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 101 SOUTH AMERICA: LIQUID RING VACUUM PUMPS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

## **13 COMPETITIVE LANDSCAPE**

### **13.1 KEY PLAYERS' STRATEGIES**

TABLE 102 OVERVIEW OF KEY STRATEGIES ADOPTED BY TOP PLAYERS, 2018–2021

### **13.2 REVENUE ANALYSIS**

FIGURE 45 REVENUE SHARE ANALYSIS IN LIQUID RING VACUUM PUMPS MARKET

### **13.3 MARKET SHARE ANALYSIS**

FIGURE 46 LIQUID RING VACUUM PUMPS MARKET SHARE ANALYSIS

TABLE 103 LIQUID RING VACUUM PUMPS MARKET: DEGREE OF COMPETITION

### **13.4 INGERSOLL RAND**

### **13.5 ATLAS COPCO**

### **13.6 BUSCH VACUUM SOLUTIONS**

### **13.7 FLOWSERVE CORPORATION**

### **13.8 TSURUMI MANUFACTURING CO., LTD**

TABLE 104 LIQUID RING VACUUM PUMPS MARKET: TYPE FOOTPRINT

TABLE 105 LIQUID RING VACUUM PUMPS MARKET: PRODUCT TYPE FOOTPRINT

TABLE 106 LIQUID RING VACUUM PUMPS MARKET: REGION FOOTPRINT

### **13.9 COMPANY EVALUATION QUADRANT**

#### **13.9.1 STAR**

#### **13.9.2 PERVASIVE**

#### **13.9.3 EMERGING LEADER**

#### **13.9.4 PARTICIPANT**

FIGURE 47 LIQUID RING VACUUM PUMPS MARKET (GLOBAL) COMPETITIVE LEADERSHIP MAPPING, 2020

### **13.10 COMPETITIVE LEADERSHIP MAPPING OF SME, 2020**

#### **13.10.1 PROGRESSIVE COMPANIES**

#### **13.10.2 RESPONSIVE COMPANIES**

#### **13.10.3 STARTING BLOCKS**

#### 13.10.4 DYNAMIC COMPANIES

FIGURE 48 OTHER ADDITIONAL PLAYERS/SMES EVALUATION MATRIX FOR LIQUID RING VACUUM PUMPS MARKET

#### 13.11 COMPETITIVE SCENARIO

TABLE 107 LIQUID RING VACUUM PUMPS MARKET: PRODUCT LAUNCHES, 2018-2019

TABLE 108 LIQUID RING VACUUM PUMPS MARKET: DEALS, 2018-2021

TABLE 109 LIQUID RING VACUUM PUMPS MARKET: OTHER DEVELOPMENT, 2019

### 14 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) \*

#### 14.1 KEY COMPANIES

##### 14.1.1 INGERSOLL RAND

TABLE 110 INGERSOLL RAND: BUSINESS OVERVIEW

FIGURE 49 INGERSOLL RAND: COMPANY SNAPSHOT

TABLE 111 INGERSOLL RAND: PRODUCT OFFERINGS

TABLE 112 INGERSOLL RAND: DEAL

##### 14.1.2 ATLAS COPCO

TABLE 113 ATLAS COPCO: BUSINESS OVERVIEW

FIGURE 50 ATLAS COPCO: COMPANY SNAPSHOT

TABLE 114 ATLAS COPCO: PRODUCT OFFERINGS

TABLE 115 ATLAS COPCO.: PRODUCT LAUNCH

TABLE 116 ATLAS COPCO: DEALS

##### 14.1.3 BUSCH VACUUM SOLUTIONS

TABLE 117 BUSCH VACUUM SOLUTIONS: BUSINESS OVERVIEW

###### 14.1.3.2 Products/solutions/services offered

TABLE 118 BUSCH VACUUM SOLUTIONS: PRODUCT OFFERINGS

TABLE 119 BUSCH VACUUM SOLUTIONS: PRODUCT LAUNCH

TABLE 120 BUSCH VACUUM SOLUTIONS: DEAL

##### 14.1.4 FLOWSERVE CORPORATION

TABLE 121 FLOWSERVE CORPORATION: BUSINESS OVERVIEW

FIGURE 51 FLOWSERVE CORPORATION: COMPANY SNAPSHOT

TABLE 122 FLOWSERVE CORPORATION: PRODUCT OFFERINGS

##### 14.1.5 TSURUMI MANUFACTURING CO., LTD.

TABLE 123 TSURUMI MANUFACTURING CO., LTD.: BUSINESS OVERVIEW

FIGURE 52 TSURUMI MANUFACTURING CO., LTD.: COMPANY SNAPSHOT

TABLE 124 TSURUMI MANUFACTURING CO., LTD.: PRODUCT OFFERINGS

14.1.6 DEKKER VACUUM TECHNOLOGIES, INC.

TABLE 125 DEKKER VACUUM TECHNOLOGIES, INC.: BUSINESS OVERVIEW

TABLE 126 DEKKER VACUUM TECHNOLOGIES, INC.: PRODUCT OFFERINGS

TABLE 127 DEKKER VACUUM TECHNOLOGIES, INC.: PRODUCT LAUNCH

14.1.7 VOONER

TABLE 128 VOONER: BUSINESS OVERVIEW

TABLE 129 VOONER: PRODUCT OFFERINGS

14.1.8 GRAHAM CORPORATION

TABLE 130 GRAHAM CORPORATION: BUSINESS OVERVIEW

FIGURE 53 GRAHAM CORPORATION: COMPANY SNAPSHOT

TABLE 131 GRAHAM CORPORATION: PRODUCT OFFERINGS

TABLE 132 GRAHAM CORPORATION: DEALS

TABLE 133 GRAHAM CORPORATION: OTHERS

14.1.9 CUTES CORP.

TABLE 134 CUTES CORP.: BUSINESS OVERVIEW

TABLE 135 CUTES CORP.: PRODUCT OFFERINGS

14.1.10 ZIBO ZHAOHAN VACUUM PUMP CO., LTD

TABLE 136 ZIBO ZHAOHAN VACUUM PUMP CO., LTD: BUSINESS OVERVIEW

TABLE 137 ZIBO ZHAOHAN VACUUM PUMP CO., LTD: PRODUCT OFFERINGS

14.1.11 OMEL

TABLE 138 OMEL: BUSINESS OVERVIEW

TABLE 139 OMEL: PRODUCT OFFERINGS

14.1.12 PPI PUMPS PVT. LTD.

TABLE 140 PPI PUMPS PVT. LTD.: BUSINESS OVERVIEW

TABLE 141 PPI PUMPS PVT. LTD.: PRODUCT OFFERINGS

14.1.13 SAMSON PUMPS

TABLE 142 SAMSON PUMPS: BUSINESS OVERVIEW

TABLE 143 SAMSON PUMPS: PRODUCT OFFERINGS

14.1.14 SPECK

TABLE 144 SPECK: BUSINESS OVERVIEW

TABLE 145 SPECK: PRODUCT OFFERINGS

14.2 OTHER PLAYERS

14.2.1 SAFEM

TABLE 146 SAFEM: COMPANY OVERVIEW

14.2.2 SHANDONG BOZHONG VACUUM TECHNOLOGY CO., LTD.

TABLE 147 SHANDONG BOZHONG VACUUM TECHNOLOGY CO., LTD.: COMPANY OVERVIEW

14.2.3 SHANDONG CHINCO PUMPS CO., LTD.

TABLE 148 SHANDONG CHINCO PUMPS CO., LTD.: COMPANY OVERVIEW

14.2.4 FINDER PUMPS

TABLE 149 FINDER PUMPS: COMPANY OVERVIEW

14.2.5 KAKATI

TABLE 150 KAKATI: COMPANY OVERVIEW

14.2.6 GUANGDONG KENFLO PUMP LIMITED

TABLE 151 GUANGDONG KENFLO PUMP LIMITED: COMPANY OVERVIEW

14.2.7 IMAG

TABLE 152 IMAG: COMPANY OVERVIEW

14.2.8 SOMARAKIS

TABLE 153 SOMARAKIS: COMPANY OVERVIEW

14.2.9 YANTAI VOLM VACUUM TECHNOLOGY CO., LTD.

TABLE 154 YANTAI VOLM VACUUM TECHNOLOGY CO., LTD.: COMPANY OVERVIEW

14.2.10 GARUDA

TABLE 155 GARUDA: COMPANY OVERVIEW

14.2.11 HOBEI TONFUN HIGH-TECH PUMP CO., LTD.

TABLE 156 HOBEI TONFUN HIGH-TECH PUMP CO., LTD.: COMPANY OVERVIEW

14.2.12 POMPETRAVAINI SPA

TABLE 157 POMPETRAVAINI SPA: COMPANY OVERVIEW

\*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

## **15 APPENDIX**

15.1 DISCUSSION GUIDE

15.2 KNOWLEDGE STORE: MARKETSandMARKETS SUBSCRIPTION PORTAL

15.3 AVAILABLE CUSTOMIZATIONS

15.4 RELATED REPORTS

## I would like to order

Product name: Liquid Ring Vacuum Pumps Market by Type (Single-stage, Two-stage), Material Type (Stainless Steel, Cast Iron, Others), Flow Rate (25 – 600 M3H; 600 – 3,000 M3H; 3,000 – 10,000 M3H; Over 10,000 M3H), Application, and Region - Global Forecast to 2026

Product link: <https://marketpublishers.com/r/LD9AE242674FEN.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/LD9AE242674FEN.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