

Global Variable Flow Cooling Pump Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Variable Flow Cooling Pump market size was valued at US\$ 1358 million in 2025 and is forecast to a readjusted size of US\$ 1985 million by 2032 with a CAGR of 5.2% during review period.

Variable flow cooling pump is a fluid circulation device capable of adjusting its flow rate and pressure in response to system demands. It is widely utilized in various applications, including industrial machine tool cooling, automotive engine thermal management, new energy power systems, and data center liquid cooling. Compared to traditional fixed-flow pumps, these devices employ electronic controls or mechanical mechanisms to deliver fluid on demand, thereby enhancing energy efficiency, reducing noise and system wear, and optimizing temperature control performance. Variable-flow cooling pumps typically integrate with motor drive systems, sensors, and control modules to monitor temperature, pressure, or flow rates in real time; through signal feedback, they adjust pump speed or displacement to achieve intelligent, dynamic cooling management. In the automotive sector, electronic water pumps (EWPs)—or electronically controlled cooling pumps—automatically regulate coolant flow based on changes in engine load or battery temperature, thereby improving fuel economy and extending the driving range of electric vehicles. In industrial settings, these pumps enable precise control over the flow rate of machine tool coolants, ensuring machining accuracy while conserving energy. Overall, the variable-flow cooling pump represents an advanced pumping technology that integrates energy conservation, intelligent operation, and precise control, serving as a critical core component in modern thermal management systems and high-efficiency industrial circulation systems. Globally, approximately 22 million variable-flow cooling pumps are sold annually, with an average unit price of around \$60 and an average corporate gross margin of 30%.

The future market for variable flow cooling pumps is characterized by trends of rapid growth and expansion across multiple sectors. In the fields of new energy vehicles (NEVs) and hybrid electric vehicles (HEVs), electronically controlled pumps can adjust flow rates in real-time based on engine or battery temperatures; this enhances thermal management efficiency and optimizes driving range and energy consumption, leading to a projected continued rise in market penetration. The increasing demand for precise temperature control in data center liquid cooling and energy storage systems is also driving the adoption of variable-flow pumps within the industrial and energy storage sectors. Technologically, electronic drives and intelligent control systems are set to become the mainstream; pump units will integrate sensors, ECUs, and advanced algorithms to achieve adaptive flow regulation and maximize energy efficiency. Regarding the industry value chain, leading global enterprises—such as Bosch and Nidec—maintain their competitive edge through deep technological expertise and robust system integration capabilities, while domestic manufacturers are rapidly closing the gap by leveraging localized supply chains and the booming NEV market. At the policy level, regulations aimed at energy conservation and emission reduction, along with initiatives promoting NEVs and green manufacturing standards, are further stimulating market demand. Overall, the development of variable-flow cooling pumps will center on three core pillars: intelligent operation, energy efficiency, and cross-sector application. Consequently, both market size and sales volume are projected to experience steady growth over the next five to ten years, establishing these pumps as critical core components in automotive thermal management, data centers, and industrial cooling systems.

This report is a detailed and comprehensive analysis for global Variable Flow Cooling Pump market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Variable Flow Cooling Pump market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Variable Flow Cooling Pump market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Variable Flow Cooling Pump market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Variable Flow Cooling Pump market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Variable Flow Cooling Pump

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Variable Flow Cooling Pump market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Rheinmetall, Tark Thermal Solutions, Concentric, BOSCH, LEO, Grundfos, Nidec GPM, Barber-Nichols, CNP, LHY TECH, etc.

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

Market Segmentation

Variable Flow Cooling Pump market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Automotive Thermal Management Pumps

Industrial Circulation Pumps

Data Center Liquid Cooling Pumps

Market segment by Structure

Integrated Motor Pumps

Split Pumps

Horizontal Pumps

Vertical Pumps

Market segment by Control Method

Mechanical Variable Flow Pumps

Electronic Controlled Pumps

Hybrid Control Pumps

Market segment by Application

Automotive Industry

Industrial Manufacturing

Data Centers

Building HVAC

Others

Major players covered

Rheinmetall

Tark Thermal Solutions

Concentric

BOSCH

LEO

Grundfos

Nidec GPM

Barber?Nichols

CNP

LHY TECH

Kaiquan

Feilong Auto Components Co., Ltd

Dare Auto

TOPSFLO

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Variable Flow Cooling Pump product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Variable Flow Cooling Pump, with price, sales quantity, revenue, and global market share of Variable Flow Cooling Pump from 2021 to 2026.

Chapter 3, the Variable Flow Cooling Pump competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Variable Flow Cooling Pump breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Variable Flow Cooling Pump market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Variable Flow Cooling Pump.

Chapter 14 and 15, to describe Variable Flow Cooling Pump sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Variable Flow Cooling Pump Consumption Value by Type:
2021 Versus 2025 Versus 2032

1.3.2 Automotive Thermal Management Pumps

1.3.3 Industrial Circulation Pumps

1.3.4 Data Center Liquid Cooling Pumps

1.4 Market Analysis by Structure

1.4.1 Overview: Global Variable Flow Cooling Pump Consumption Value by Structure:
2021 Versus 2025 Versus 2032

1.4.2 Integrated Motor Pumps

1.4.3 Split Pumps

1.4.4 Horizontal Pumps

1.4.5 Vertical Pumps

1.5 Market Analysis by Control Method

1.5.1 Overview: Global Variable Flow Cooling Pump Consumption Value by Control
Method: 2021 Versus 2025 Versus 2032

1.5.2 Mechanical Variable Flow Pumps

1.5.3 Electronic Controlled Pumps

1.5.4 Hybrid Control Pumps

1.6 Market Analysis by Application

1.6.1 Overview: Global Variable Flow Cooling Pump Consumption Value by
Application: 2021 Versus 2025 Versus 2032

1.6.2 Automotive Industry

1.6.3 Industrial Manufacturing

1.6.4 Data Centers

1.6.5 Building HVAC

1.6.6 Others

1.7 Global Variable Flow Cooling Pump Market Size & Forecast

1.7.1 Global Variable Flow Cooling Pump Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Variable Flow Cooling Pump Sales Quantity (2021-2032)

1.7.3 Global Variable Flow Cooling Pump Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Rheinmetall

2.1.1 Rheinmetall Details

2.1.2 Rheinmetall Major Business

2.1.3 Rheinmetall Variable Flow Cooling Pump Product and Services

2.1.4 Rheinmetall Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Rheinmetall Recent Developments/Updates

2.2 Tark Thermal Solutions

2.2.1 Tark Thermal Solutions Details

2.2.2 Tark Thermal Solutions Major Business

2.2.3 Tark Thermal Solutions Variable Flow Cooling Pump Product and Services

2.2.4 Tark Thermal Solutions Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Tark Thermal Solutions Recent Developments/Updates

2.3 Concentric

2.3.1 Concentric Details

2.3.2 Concentric Major Business

2.3.3 Concentric Variable Flow Cooling Pump Product and Services

2.3.4 Concentric Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Concentric Recent Developments/Updates

2.4 BOSCH

2.4.1 BOSCH Details

2.4.2 BOSCH Major Business

2.4.3 BOSCH Variable Flow Cooling Pump Product and Services

2.4.4 BOSCH Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 BOSCH Recent Developments/Updates

2.5 LEO

2.5.1 LEO Details

2.5.2 LEO Major Business

2.5.3 LEO Variable Flow Cooling Pump Product and Services

2.5.4 LEO Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 LEO Recent Developments/Updates

2.6 Grundfos

2.6.1 Grundfos Details

2.6.2 Grundfos Major Business

- 2.6.3 Grundfos Variable Flow Cooling Pump Product and Services
- 2.6.4 Grundfos Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Grundfos Recent Developments/Updates
- 2.7 Nidec GPM
 - 2.7.1 Nidec GPM Details
 - 2.7.2 Nidec GPM Major Business
 - 2.7.3 Nidec GPM Variable Flow Cooling Pump Product and Services
 - 2.7.4 Nidec GPM Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Nidec GPM Recent Developments/Updates
- 2.8 Barber?Nichols
 - 2.8.1 Barber?Nichols Details
 - 2.8.2 Barber?Nichols Major Business
 - 2.8.3 Barber?Nichols Variable Flow Cooling Pump Product and Services
 - 2.8.4 Barber?Nichols Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Barber?Nichols Recent Developments/Updates
- 2.9 CNP
 - 2.9.1 CNP Details
 - 2.9.2 CNP Major Business
 - 2.9.3 CNP Variable Flow Cooling Pump Product and Services
 - 2.9.4 CNP Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 CNP Recent Developments/Updates
- 2.10 LHY TECH
 - 2.10.1 LHY TECH Details
 - 2.10.2 LHY TECH Major Business
 - 2.10.3 LHY TECH Variable Flow Cooling Pump Product and Services
 - 2.10.4 LHY TECH Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 LHY TECH Recent Developments/Updates
- 2.11 Kaiquan
 - 2.11.1 Kaiquan Details
 - 2.11.2 Kaiquan Major Business
 - 2.11.3 Kaiquan Variable Flow Cooling Pump Product and Services
 - 2.11.4 Kaiquan Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Kaiquan Recent Developments/Updates

2.12 Feilong Auto Components Co., Ltd

2.12.1 Feilong Auto Components Co., Ltd Details

2.12.2 Feilong Auto Components Co., Ltd Major Business

2.12.3 Feilong Auto Components Co., Ltd Variable Flow Cooling Pump Product and Services

2.12.4 Feilong Auto Components Co., Ltd Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Feilong Auto Components Co., Ltd Recent Developments/Updates

2.13 Dare Auto

2.13.1 Dare Auto Details

2.13.2 Dare Auto Major Business

2.13.3 Dare Auto Variable Flow Cooling Pump Product and Services

2.13.4 Dare Auto Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Dare Auto Recent Developments/Updates

2.14 TOPSFLO

2.14.1 TOPSFLO Details

2.14.2 TOPSFLO Major Business

2.14.3 TOPSFLO Variable Flow Cooling Pump Product and Services

2.14.4 TOPSFLO Variable Flow Cooling Pump Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 TOPSFLO Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: VARIABLE FLOW COOLING PUMP BY MANUFACTURER

3.1 Global Variable Flow Cooling Pump Sales Quantity by Manufacturer (2021-2026)

3.2 Global Variable Flow Cooling Pump Revenue by Manufacturer (2021-2026)

3.3 Global Variable Flow Cooling Pump Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Variable Flow Cooling Pump by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Variable Flow Cooling Pump Manufacturer Market Share in 2025

3.4.3 Top 6 Variable Flow Cooling Pump Manufacturer Market Share in 2025

3.5 Variable Flow Cooling Pump Market: Overall Company Footprint Analysis

3.5.1 Variable Flow Cooling Pump Market: Region Footprint

3.5.2 Variable Flow Cooling Pump Market: Company Product Type Footprint

3.5.3 Variable Flow Cooling Pump Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Variable Flow Cooling Pump Market Size by Region

4.1.1 Global Variable Flow Cooling Pump Sales Quantity by Region (2021-2032)

4.1.2 Global Variable Flow Cooling Pump Consumption Value by Region (2021-2032)

4.1.3 Global Variable Flow Cooling Pump Average Price by Region (2021-2032)

4.2 North America Variable Flow Cooling Pump Consumption Value (2021-2032)

4.3 Europe Variable Flow Cooling Pump Consumption Value (2021-2032)

4.4 Asia-Pacific Variable Flow Cooling Pump Consumption Value (2021-2032)

4.5 South America Variable Flow Cooling Pump Consumption Value (2021-2032)

4.6 Middle East & Africa Variable Flow Cooling Pump Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Variable Flow Cooling Pump Sales Quantity by Type (2021-2032)

5.2 Global Variable Flow Cooling Pump Consumption Value by Type (2021-2032)

5.3 Global Variable Flow Cooling Pump Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Variable Flow Cooling Pump Sales Quantity by Application (2021-2032)

6.2 Global Variable Flow Cooling Pump Consumption Value by Application (2021-2032)

6.3 Global Variable Flow Cooling Pump Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Variable Flow Cooling Pump Sales Quantity by Type (2021-2032)

7.2 North America Variable Flow Cooling Pump Sales Quantity by Application (2021-2032)

7.3 North America Variable Flow Cooling Pump Market Size by Country

7.3.1 North America Variable Flow Cooling Pump Sales Quantity by Country (2021-2032)

7.3.2 North America Variable Flow Cooling Pump Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Variable Flow Cooling Pump Sales Quantity by Type (2021-2032)
- 8.2 Europe Variable Flow Cooling Pump Sales Quantity by Application (2021-2032)
- 8.3 Europe Variable Flow Cooling Pump Market Size by Country
 - 8.3.1 Europe Variable Flow Cooling Pump Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Variable Flow Cooling Pump Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Variable Flow Cooling Pump Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Variable Flow Cooling Pump Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Variable Flow Cooling Pump Market Size by Region
 - 9.3.1 Asia-Pacific Variable Flow Cooling Pump Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Variable Flow Cooling Pump Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Variable Flow Cooling Pump Sales Quantity by Type (2021-2032)
- 10.2 South America Variable Flow Cooling Pump Sales Quantity by Application (2021-2032)
- 10.3 South America Variable Flow Cooling Pump Market Size by Country
 - 10.3.1 South America Variable Flow Cooling Pump Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Variable Flow Cooling Pump Consumption Value by Country

(2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Variable Flow Cooling Pump Sales Quantity by Type

(2021-2032)

11.2 Middle East & Africa Variable Flow Cooling Pump Sales Quantity by Application

(2021-2032)

11.3 Middle East & Africa Variable Flow Cooling Pump Market Size by Country

11.3.1 Middle East & Africa Variable Flow Cooling Pump Sales Quantity by Country

(2021-2032)

11.3.2 Middle East & Africa Variable Flow Cooling Pump Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Variable Flow Cooling Pump Market Drivers

12.2 Variable Flow Cooling Pump Market Restraints

12.3 Variable Flow Cooling Pump Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Variable Flow Cooling Pump and Key Manufacturers

13.2 Manufacturing Costs Percentage of Variable Flow Cooling Pump

13.3 Variable Flow Cooling Pump Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Variable Flow Cooling Pump Typical Distributors

14.3 Variable Flow Cooling Pump Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Variable Flow Cooling Pump Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Variable Flow Cooling Pump Consumption Value by Structure, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Variable Flow Cooling Pump Consumption Value by Control Method, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Variable Flow Cooling Pump Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Rheinmetall Basic Information, Manufacturing Base and Competitors
- Table 6. Rheinmetall Major Business
- Table 7. Rheinmetall Variable Flow Cooling Pump Product and Services
- Table 8. Rheinmetall Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Rheinmetall Recent Developments/Updates
- Table 10. Tark Thermal Solutions Basic Information, Manufacturing Base and Competitors
- Table 11. Tark Thermal Solutions Major Business
- Table 12. Tark Thermal Solutions Variable Flow Cooling Pump Product and Services
- Table 13. Tark Thermal Solutions Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Tark Thermal Solutions Recent Developments/Updates
- Table 15. Concentric Basic Information, Manufacturing Base and Competitors
- Table 16. Concentric Major Business
- Table 17. Concentric Variable Flow Cooling Pump Product and Services
- Table 18. Concentric Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Concentric Recent Developments/Updates
- Table 20. BOSCH Basic Information, Manufacturing Base and Competitors
- Table 21. BOSCH Major Business
- Table 22. BOSCH Variable Flow Cooling Pump Product and Services
- Table 23. BOSCH Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 24. BOSCH Recent Developments/Updates
- Table 25. LEO Basic Information, Manufacturing Base and Competitors

Table 26. LEO Major Business

Table 27. LEO Variable Flow Cooling Pump Product and Services

Table 28. LEO Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. LEO Recent Developments/Updates

Table 30. Grundfos Basic Information, Manufacturing Base and Competitors

Table 31. Grundfos Major Business

Table 32. Grundfos Variable Flow Cooling Pump Product and Services

Table 33. Grundfos Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Grundfos Recent Developments/Updates

Table 35. Nidec GPM Basic Information, Manufacturing Base and Competitors

Table 36. Nidec GPM Major Business

Table 37. Nidec GPM Variable Flow Cooling Pump Product and Services

Table 38. Nidec GPM Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Nidec GPM Recent Developments/Updates

Table 40. Barber?Nichols Basic Information, Manufacturing Base and Competitors

Table 41. Barber?Nichols Major Business

Table 42. Barber?Nichols Variable Flow Cooling Pump Product and Services

Table 43. Barber?Nichols Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Barber?Nichols Recent Developments/Updates

Table 45. CNP Basic Information, Manufacturing Base and Competitors

Table 46. CNP Major Business

Table 47. CNP Variable Flow Cooling Pump Product and Services

Table 48. CNP Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. CNP Recent Developments/Updates

Table 50. LHY TECH Basic Information, Manufacturing Base and Competitors

Table 51. LHY TECH Major Business

Table 52. LHY TECH Variable Flow Cooling Pump Product and Services

Table 53. LHY TECH Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. LHY TECH Recent Developments/Updates

Table 55. Kaiquan Basic Information, Manufacturing Base and Competitors

Table 56. Kaiquan Major Business

Table 57. Kaiquan Variable Flow Cooling Pump Product and Services

Table 58. Kaiquan Variable Flow Cooling Pump Sales Quantity (Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Kaiquan Recent Developments/Updates

Table 60. Feilong Auto Components Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 61. Feilong Auto Components Co., Ltd Major Business

Table 62. Feilong Auto Components Co., Ltd Variable Flow Cooling Pump Product and Services

Table 63. Feilong Auto Components Co., Ltd Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Feilong Auto Components Co., Ltd Recent Developments/Updates

Table 65. Dare Auto Basic Information, Manufacturing Base and Competitors

Table 66. Dare Auto Major Business

Table 67. Dare Auto Variable Flow Cooling Pump Product and Services

Table 68. Dare Auto Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Dare Auto Recent Developments/Updates

Table 70. TOPSFLO Basic Information, Manufacturing Base and Competitors

Table 71. TOPSFLO Major Business

Table 72. TOPSFLO Variable Flow Cooling Pump Product and Services

Table 73. TOPSFLO Variable Flow Cooling Pump Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. TOPSFLO Recent Developments/Updates

Table 75. Global Variable Flow Cooling Pump Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 76. Global Variable Flow Cooling Pump Revenue by Manufacturer (2021-2026) & (USD Million)

Table 77. Global Variable Flow Cooling Pump Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 78. Market Position of Manufacturers in Variable Flow Cooling Pump, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 79. Head Office and Variable Flow Cooling Pump Production Site of Key Manufacturer

Table 80. Variable Flow Cooling Pump Market: Company Product Type Footprint

Table 81. Variable Flow Cooling Pump Market: Company Product Application Footprint

Table 82. Variable Flow Cooling Pump New Market Entrants and Barriers to Market Entry

Table 83. Variable Flow Cooling Pump Mergers, Acquisition, Agreements, and Collaborations

Table 84. Global Variable Flow Cooling Pump Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 85. Global Variable Flow Cooling Pump Sales Quantity by Region (2021-2026) & (Units)

Table 86. Global Variable Flow Cooling Pump Sales Quantity by Region (2027-2032) & (Units)

Table 87. Global Variable Flow Cooling Pump Consumption Value by Region (2021-2026) & (USD Million)

Table 88. Global Variable Flow Cooling Pump Consumption Value by Region (2027-2032) & (USD Million)

Table 89. Global Variable Flow Cooling Pump Average Price by Region (2021-2026) & (US\$/Unit)

Table 90. Global Variable Flow Cooling Pump Average Price by Region (2027-2032) & (US\$/Unit)

Table 91. Global Variable Flow Cooling Pump Sales Quantity by Type (2021-2026) & (Units)

Table 92. Global Variable Flow Cooling Pump Sales Quantity by Type (2027-2032) & (Units)

Table 93. Global Variable Flow Cooling Pump Consumption Value by Type (2021-2026) & (USD Million)

Table 94. Global Variable Flow Cooling Pump Consumption Value by Type (2027-2032) & (USD Million)

Table 95. Global Variable Flow Cooling Pump Average Price by Type (2021-2026) & (US\$/Unit)

Table 96. Global Variable Flow Cooling Pump Average Price by Type (2027-2032) & (US\$/Unit)

Table 97. Global Variable Flow Cooling Pump Sales Quantity by Application (2021-2026) & (Units)

Table 98. Global Variable Flow Cooling Pump Sales Quantity by Application (2027-2032) & (Units)

Table 99. Global Variable Flow Cooling Pump Consumption Value by Application (2021-2026) & (USD Million)

Table 100. Global Variable Flow Cooling Pump Consumption Value by Application (2027-2032) & (USD Million)

Table 101. Global Variable Flow Cooling Pump Average Price by Application (2021-2026) & (US\$/Unit)

Table 102. Global Variable Flow Cooling Pump Average Price by Application (2027-2032) & (US\$/Unit)

Table 103. North America Variable Flow Cooling Pump Sales Quantity by Type

(2021-2026) & (Units)

Table 104. North America Variable Flow Cooling Pump Sales Quantity by Type

(2027-2032) & (Units)

Table 105. North America Variable Flow Cooling Pump Sales Quantity by Application

(2021-2026) & (Units)

Table 106. North America Variable Flow Cooling Pump Sales Quantity by Application

(2027-2032) & (Units)

Table 107. North America Variable Flow Cooling Pump Sales Quantity by Country

(2021-2026) & (Units)

Table 108. North America Variable Flow Cooling Pump Sales Quantity by Country

(2027-2032) & (Units)

Table 109. North America Variable Flow Cooling Pump Consumption Value by Country

(2021-2026) & (USD Million)

Table 110. North America Variable Flow Cooling Pump Consumption Value by Country

(2027-2032) & (USD Million)

Table 111. Europe Variable Flow Cooling Pump Sales Quantity by Type (2021-2026) &

(Units)

Table 112. Europe Variable Flow Cooling Pump Sales Quantity by Type (2027-2032) &

(Units)

Table 113. Europe Variable Flow Cooling Pump Sales Quantity by Application

(2021-2026) & (Units)

Table 114. Europe Variable Flow Cooling Pump Sales Quantity by Application

(2027-2032) & (Units)

Table 115. Europe Variable Flow Cooling Pump Sales Quantity by Country (2021-2026)

& (Units)

Table 116. Europe Variable Flow Cooling Pump Sales Quantity by Country (2027-2032)

& (Units)

Table 117. Europe Variable Flow Cooling Pump Consumption Value by Country

(2021-2026) & (USD Million)

Table 118. Europe Variable Flow Cooling Pump Consumption Value by Country

(2027-2032) & (USD Million)

Table 119. Asia-Pacific Variable Flow Cooling Pump Sales Quantity by Type

(2021-2026) & (Units)

Table 120. Asia-Pacific Variable Flow Cooling Pump Sales Quantity by Type

(2027-2032) & (Units)

Table 121. Asia-Pacific Variable Flow Cooling Pump Sales Quantity by Application

(2021-2026) & (Units)

Table 122. Asia-Pacific Variable Flow Cooling Pump Sales Quantity by Application

(2027-2032) & (Units)

Table 123. Asia-Pacific Variable Flow Cooling Pump Sales Quantity by Region (2021-2026) & (Units)

Table 124. Asia-Pacific Variable Flow Cooling Pump Sales Quantity by Region (2027-2032) & (Units)

Table 125. Asia-Pacific Variable Flow Cooling Pump Consumption Value by Region (2021-2026) & (USD Million)

Table 126. Asia-Pacific Variable Flow Cooling Pump Consumption Value by Region (2027-2032) & (USD Million)

Table 127. South America Variable Flow Cooling Pump Sales Quantity by Type (2021-2026) & (Units)

Table 128. South America Variable Flow Cooling Pump Sales Quantity by Type (2027-2032) & (Units)

Table 129. South America Variable Flow Cooling Pump Sales Quantity by Application (2021-2026) & (Units)

Table 130. South America Variable Flow Cooling Pump Sales Quantity by Application (2027-2032) & (Units)

Table 131. South America Variable Flow Cooling Pump Sales Quantity by Country (2021-2026) & (Units)

Table 132. South America Variable Flow Cooling Pump Sales Quantity by Country (2027-2032) & (Units)

Table 133. South America Variable Flow Cooling Pump Consumption Value by Country (2021-2026) & (USD Million)

Table 134. South America Variable Flow Cooling Pump Consumption Value by Country (2027-2032) & (USD Million)

Table 135. Middle East & Africa Variable Flow Cooling Pump Sales Quantity by Type (2021-2026) & (Units)

Table 136. Middle East & Africa Variable Flow Cooling Pump Sales Quantity by Type (2027-2032) & (Units)

Table 137. Middle East & Africa Variable Flow Cooling Pump Sales Quantity by Application (2021-2026) & (Units)

Table 138. Middle East & Africa Variable Flow Cooling Pump Sales Quantity by Application (2027-2032) & (Units)

Table 139. Middle East & Africa Variable Flow Cooling Pump Sales Quantity by Country (2021-2026) & (Units)

Table 140. Middle East & Africa Variable Flow Cooling Pump Sales Quantity by Country (2027-2032) & (Units)

Table 141. Middle East & Africa Variable Flow Cooling Pump Consumption Value by Country (2021-2026) & (USD Million)

Table 142. Middle East & Africa Variable Flow Cooling Pump Consumption Value by

Country (2027-2032) & (USD Million)

Table 143. Variable Flow Cooling Pump Raw Material

Table 144. Key Manufacturers of Variable Flow Cooling Pump Raw Materials

Table 145. Variable Flow Cooling Pump Typical Distributors

Table 146. Variable Flow Cooling Pump Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Variable Flow Cooling Pump Picture

Figure 2. Global Variable Flow Cooling Pump Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Variable Flow Cooling Pump Revenue Market Share by Type in 2025

Figure 4. Automotive Thermal Management Pumps Examples

Figure 5. Industrial Circulation Pumps Examples

Figure 6. Data Center Liquid Cooling Pumps Examples

Figure 7. Global Variable Flow Cooling Pump Revenue by Structure, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Variable Flow Cooling Pump Revenue Market Share by Structure in 2025

Figure 9. Integrated Motor Pumps Examples

Figure 10. Split Pumps Examples

Figure 11. Horizontal Pumps Examples

Figure 12. Vertical Pumps Examples

Figure 13. Global Variable Flow Cooling Pump Revenue by Control Method, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Variable Flow Cooling Pump Revenue Market Share by Control Method in 2025

Figure 15. Mechanical Variable Flow Pumps Examples

Figure 16. Electronic Controlled Pumps Examples

Figure 17. Hybrid Control Pumps Examples

Figure 18. Global Variable Flow Cooling Pump Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 19. Global Variable Flow Cooling Pump Revenue Market Share by Application in 2025

Figure 20. Automotive Industry Examples

Figure 21. Industrial Manufacturing Examples

Figure 22. Data Centers Examples

Figure 23. Building HVAC Examples

Figure 24. Others Examples

Figure 25. Global Variable Flow Cooling Pump Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 26. Global Variable Flow Cooling Pump Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 27. Global Variable Flow Cooling Pump Sales Quantity (2021-2032) & (Units)

Figure 28. Global Variable Flow Cooling Pump Price (2021-2032) & (US\$/Unit)

Figure 29. Global Variable Flow Cooling Pump Sales Quantity Market Share by Manufacturer in 2025

Figure 30. Global Variable Flow Cooling Pump Revenue Market Share by Manufacturer in 2025

Figure 31. Producer Shipments of Variable Flow Cooling Pump by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 32. Top 3 Variable Flow Cooling Pump Manufacturer (Revenue) Market Share in 2025

Figure 33. Top 6 Variable Flow Cooling Pump Manufacturer (Revenue) Market Share in 2025

Figure 34. Global Variable Flow Cooling Pump Sales Quantity Market Share by Region (2021-2032)

Figure 35. Global Variable Flow Cooling Pump Consumption Value Market Share by Region (2021-2032)

Figure 36. North America Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 37. Europe Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 38. Asia-Pacific Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 39. South America Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 40. Middle East & Africa Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 41. Global Variable Flow Cooling Pump Sales Quantity Market Share by Type (2021-2032)

Figure 42. Global Variable Flow Cooling Pump Consumption Value Market Share by Type (2021-2032)

Figure 43. Global Variable Flow Cooling Pump Average Price by Type (2021-2032) & (US\$/Unit)

Figure 44. Global Variable Flow Cooling Pump Sales Quantity Market Share by Application (2021-2032)

Figure 45. Global Variable Flow Cooling Pump Revenue Market Share by Application (2021-2032)

Figure 46. Global Variable Flow Cooling Pump Average Price by Application (2021-2032) & (US\$/Unit)

Figure 47. North America Variable Flow Cooling Pump Sales Quantity Market Share by

Type (2021-2032)

Figure 48. North America Variable Flow Cooling Pump Sales Quantity Market Share by Application (2021-2032)

Figure 49. North America Variable Flow Cooling Pump Sales Quantity Market Share by Country (2021-2032)

Figure 50. North America Variable Flow Cooling Pump Consumption Value Market Share by Country (2021-2032)

Figure 51. United States Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 52. Canada Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 53. Mexico Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 54. Europe Variable Flow Cooling Pump Sales Quantity Market Share by Type (2021-2032)

Figure 55. Europe Variable Flow Cooling Pump Sales Quantity Market Share by Application (2021-2032)

Figure 56. Europe Variable Flow Cooling Pump Sales Quantity Market Share by Country (2021-2032)

Figure 57. Europe Variable Flow Cooling Pump Consumption Value Market Share by Country (2021-2032)

Figure 58. Germany Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 59. France Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 60. United Kingdom Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 61. Russia Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 62. Italy Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 63. Asia-Pacific Variable Flow Cooling Pump Sales Quantity Market Share by Type (2021-2032)

Figure 64. Asia-Pacific Variable Flow Cooling Pump Sales Quantity Market Share by Application (2021-2032)

Figure 65. Asia-Pacific Variable Flow Cooling Pump Sales Quantity Market Share by Region (2021-2032)

Figure 66. Asia-Pacific Variable Flow Cooling Pump Consumption Value Market Share by Region (2021-2032)

Figure 67. China Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 68. Japan Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 69. South Korea Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 70. India Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 71. Southeast Asia Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 72. Australia Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 73. South America Variable Flow Cooling Pump Sales Quantity Market Share by Type (2021-2032)

Figure 74. South America Variable Flow Cooling Pump Sales Quantity Market Share by Application (2021-2032)

Figure 75. South America Variable Flow Cooling Pump Sales Quantity Market Share by Country (2021-2032)

Figure 76. South America Variable Flow Cooling Pump Consumption Value Market Share by Country (2021-2032)

Figure 77. Brazil Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 78. Argentina Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 79. Middle East & Africa Variable Flow Cooling Pump Sales Quantity Market Share by Type (2021-2032)

Figure 80. Middle East & Africa Variable Flow Cooling Pump Sales Quantity Market Share by Application (2021-2032)

Figure 81. Middle East & Africa Variable Flow Cooling Pump Sales Quantity Market Share by Country (2021-2032)

Figure 82. Middle East & Africa Variable Flow Cooling Pump Consumption Value Market Share by Country (2021-2032)

Figure 83. Turkey Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 84. Egypt Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 85. Saudi Arabia Variable Flow Cooling Pump Consumption Value (2021-2032) & (USD Million)

Figure 86. South Africa Variable Flow Cooling Pump Consumption Value (2021-2032) &

(USD Million)

Figure 87. Variable Flow Cooling Pump Market Drivers

Figure 88. Variable Flow Cooling Pump Market Restraints

Figure 89. Variable Flow Cooling Pump Market Trends

Figure 90. Porters Five Forces Analysis

Figure 91. Manufacturing Cost Structure Analysis of Variable Flow Cooling Pump in 2025

Figure 92. Manufacturing Process Analysis of Variable Flow Cooling Pump

Figure 93. Variable Flow Cooling Pump Industrial Chain

Figure 94. Sales Channel: Direct to End-User vs Distributors

Figure 95. Direct Channel Pros & Cons

Figure 96. Indirect Channel Pros & Cons

Figure 97. Methodology

Figure 98. Research Process and Data Source

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