

Global Liquid Cooling Micropump for Thermal Management Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Cooling Micropump for Thermal Management market size is expected to reach \$ 65.62 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Liquid Cooling Micropump for Thermal Management is a compact precision fluid-driving component used in miniaturized liquid cooling loops. Its main function is to circulate coolant through cold plates, microchannels, heat exchangers, radiators and tubing to remove heat from chips, power devices, battery modules or other high heat-flux components. Compared with conventional cooling pumps, Liquid Cooling Micropump for Thermal Managements emphasize compact size, low noise, low power consumption, stable flow delivery and high reliability. Common technologies include piezoelectric pumps, diaphragm pumps, electromagnetic pumps, miniature centrifugal pumps and brushless motor-driven pumps. The product is not a standalone refrigeration device; instead, it acts as the active circulation unit within a liquid cooling system and works together with cold plates, coolant, tubing and control electronics to form a complete thermal management solution. Under a medium-scope definition, global Liquid Cooling Micropump for Thermal Management sales are estimated at around 0.7?1.2 million units in 2025, with an average price of about USD 30?70 per unit and a market size of roughly USD 30?60 million, mainly driven by AI computing, miniaturized liquid cooling modules, and high heat-flux electronic devices.

The upstream supply chain of Liquid Cooling Micropump for Thermal Managements mainly includes miniature motors, piezoelectric ceramics, magnetic materials, diaphragms, pump housings, impellers, seals, bearings, driver ICs, sensors, control boards, engineering plastics, metal components and corrosion-resistant materials. The

key technical capabilities are pump structure design, drive control, sealing reliability and long-term durability. Midstream companies focus on micropump design, assembly, testing and integration with liquid cooling modules. Downstream applications include AI servers, data center liquid cooling systems, laptops and high-performance consumer electronics, telecom equipment, lasers, medical devices, electric vehicle batteries and power electronics. As chip power density and electronic system density continue to rise, the coordination among cold plates, microchannels, coolant and micropumps is becoming increasingly important, pushing Liquid Cooling Micropump for Thermal Managements from standalone components toward customized thermal management modules.

This report studies the global Liquid Cooling Micropump for Thermal Management production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Cooling Micropump for Thermal Management 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 Cooling Micropump for Thermal Management that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Cooling Micropump for Thermal Management total production and demand, 2021-2032, (K Units)

Global Liquid Cooling Micropump for Thermal Management total production value, 2021-2032, (USD Million)

Global Liquid Cooling Micropump for Thermal Management production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Liquid Cooling Micropump for Thermal Management consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Liquid Cooling Micropump for Thermal Management domestic production, consumption, key domestic manufacturers and share

Global Liquid Cooling Micropump for Thermal Management production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Liquid Cooling Micropump for Thermal Management production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Liquid Cooling Micropump for Thermal Management production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Liquid Cooling Micropump for Thermal Management 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 Takasago Fluidic Systems, NITTO KOHKI, Bartels Mikrotechnik, MicroJet Technology, Nippon Keiki Seisakusho, PiezoData, VITO Fluid, Huake Cold Core (Shanghai) Power Technology, BESTAR, Dongguan Xizhe Electronics, 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 Cooling Micropump for Thermal Management 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 Cooling Micropump for Thermal Management Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Cooling Micropump for Thermal Management Market, Segmentation by Type:

Piezoelectric Micro Liquid Cooling Pumps

Motor-driven Micro Liquid Cooling Pumps

Other Micro Liquid Cooling Pumps

Global Liquid Cooling Micropump for Thermal Management Market, Segmentation by Flow Rate:

Ultra-low-flow Micro Liquid Cooling Pumps

Low-flow Micro Liquid Cooling Pumps

Medium-flow Micro Liquid Cooling Pumps

High-flow Compact Liquid Cooling Pumps

Global Liquid Cooling Micropump for Thermal Management Market, Segmentation by Application:

Data Centers and High-performance Computing

Consumer Electronics and Smart Terminals

Automotive Electronics and Robotics

Others

Companies Profiled:

Takasago Fluidic Systems

NITTO KOHKI

Bartels Mikrotechnik

MicroJet Technology

Nippon Keiki Seisakusho

PiezoData

VITO Fluid

Huake Cold Core (Shanghai) Power Technology

BESTAR

Dongguan Xizhe Electronics

Jiangsu Ant Power Technology

Chengdu Huitong West-electronic

Key Questions Answered:

1. How big is the global Liquid Cooling Micropump for Thermal Management market?
2. What is the demand of the global Liquid Cooling Micropump for Thermal Management market?
3. What is the year over year growth of the global Liquid Cooling Micropump for Thermal Management market?
4. What is the production and production value of the global Liquid Cooling Micropump for Thermal Management market?
5. Who are the key producers in the global Liquid Cooling Micropump for Thermal Management market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Liquid Cooling Micropump for Thermal Management Introduction
- 1.2 World Liquid Cooling Micropump for Thermal Management Supply & Forecast
 - 1.2.1 World Liquid Cooling Micropump for Thermal Management Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Liquid Cooling Micropump for Thermal Management Production (2021-2032)
 - 1.2.3 World Liquid Cooling Micropump for Thermal Management Pricing Trends (2021-2032)
- 1.3 World Liquid Cooling Micropump for Thermal Management Production by Region (Based on Production Site)
 - 1.3.1 World Liquid Cooling Micropump for Thermal Management Production Value by Region (2021-2032)
 - 1.3.2 World Liquid Cooling Micropump for Thermal Management Production by Region (2021-2032)
 - 1.3.3 World Liquid Cooling Micropump for Thermal Management Average Price by Region (2021-2032)
 - 1.3.4 North America Liquid Cooling Micropump for Thermal Management Production (2021-2032)
 - 1.3.5 Europe Liquid Cooling Micropump for Thermal Management Production (2021-2032)
 - 1.3.6 China Liquid Cooling Micropump for Thermal Management Production (2021-2032)
 - 1.3.7 Japan Liquid Cooling Micropump for Thermal Management Production (2021-2032)
 - 1.3.8 South Korea Liquid Cooling Micropump for Thermal Management Production (2021-2032)
 - 1.3.9 Southeast Asia Liquid Cooling Micropump for Thermal Management Production (2021-2032)
 - 1.3.10 China Taiwan Liquid Cooling Micropump for Thermal Management Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Liquid Cooling Micropump for Thermal Management Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Liquid Cooling Micropump for Thermal Management Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Liquid Cooling Micropump for Thermal Management Demand (2021-2032)
- 2.2 World Liquid Cooling Micropump for Thermal Management Consumption by Region
 - 2.2.1 World Liquid Cooling Micropump for Thermal Management Consumption by Region (2021-2026)
 - 2.2.2 World Liquid Cooling Micropump for Thermal Management Consumption Forecast by Region (2027-2032)
- 2.3 United States Liquid Cooling Micropump for Thermal Management Consumption (2021-2032)
- 2.4 China Liquid Cooling Micropump for Thermal Management Consumption (2021-2032)
- 2.5 Europe Liquid Cooling Micropump for Thermal Management Consumption (2021-2032)
- 2.6 Japan Liquid Cooling Micropump for Thermal Management Consumption (2021-2032)
- 2.7 South Korea Liquid Cooling Micropump for Thermal Management Consumption (2021-2032)
- 2.8 ASEAN Liquid Cooling Micropump for Thermal Management Consumption (2021-2032)
- 2.9 India Liquid Cooling Micropump for Thermal Management Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Liquid Cooling Micropump for Thermal Management Production Value by Manufacturer (2021-2026)
- 3.2 World Liquid Cooling Micropump for Thermal Management Production by Manufacturer (2021-2026)
- 3.3 World Liquid Cooling Micropump for Thermal Management Average Price by Manufacturer (2021-2026)
- 3.4 Liquid Cooling Micropump for Thermal Management Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Liquid Cooling Micropump for Thermal Management Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Liquid Cooling Micropump for Thermal Management in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Liquid Cooling Micropump for Thermal Management in 2025

3.6 Liquid Cooling Micropump for Thermal Management Market: Overall Company Footprint Analysis

3.6.1 Liquid Cooling Micropump for Thermal Management Market: Region Footprint

3.6.2 Liquid Cooling Micropump for Thermal Management Market: Company Product Type Footprint

3.6.3 Liquid Cooling Micropump for Thermal Management Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Liquid Cooling Micropump for Thermal Management Production Value Comparison

4.1.1 United States VS China: Liquid Cooling Micropump for Thermal Management Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Liquid Cooling Micropump for Thermal Management Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Liquid Cooling Micropump for Thermal Management Production Comparison

4.2.1 United States VS China: Liquid Cooling Micropump for Thermal Management Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Liquid Cooling Micropump for Thermal Management Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Liquid Cooling Micropump for Thermal Management Consumption Comparison

4.3.1 United States VS China: Liquid Cooling Micropump for Thermal Management Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Liquid Cooling Micropump for Thermal Management Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Liquid Cooling Micropump for Thermal Management Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Liquid Cooling Micropump for Thermal Management Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Liquid Cooling Micropump for Thermal

Management Production Value (2021-2026)

4.4.3 United States Based Manufacturers Liquid Cooling Micropump for Thermal Management Production (2021-2026)

4.5 China Based Liquid Cooling Micropump for Thermal Management Manufacturers and Market Share

4.5.1 China Based Liquid Cooling Micropump for Thermal Management Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Value (2021-2026)

4.5.3 China Based Manufacturers Liquid Cooling Micropump for Thermal Management Production (2021-2026)

4.6 Rest of World Based Liquid Cooling Micropump for Thermal Management Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Liquid Cooling Micropump for Thermal Management Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Liquid Cooling Micropump for Thermal Management Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Liquid Cooling Micropump for Thermal Management Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Piezoelectric Micro Liquid Cooling Pumps

5.2.2 Motor-driven Micro Liquid Cooling Pumps

5.2.3 Other Micro Liquid Cooling Pumps

5.3 Market Segment by Type

5.3.1 World Liquid Cooling Micropump for Thermal Management Production by Type (2021-2032)

5.3.2 World Liquid Cooling Micropump for Thermal Management Production Value by Type (2021-2032)

5.3.3 World Liquid Cooling Micropump for Thermal Management Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FLOW RATE

6.1 World Liquid Cooling Micropump for Thermal Management Market Size Overview by

Flow Rate: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Flow Rate

6.2.1 Ultra-low-flow Micro Liquid Cooling Pumps

6.2.2 Low-flow Micro Liquid Cooling Pumps

6.2.3 Medium-flow Micro Liquid Cooling Pumps

6.2.4 High-flow Compact Liquid Cooling Pumps

6.3 Market Segment by Flow Rate

6.3.1 World Liquid Cooling Micropump for Thermal Management Production by Flow Rate (2021-2032)

6.3.2 World Liquid Cooling Micropump for Thermal Management Production Value by Flow Rate (2021-2032)

6.3.3 World Liquid Cooling Micropump for Thermal Management Average Price by Flow Rate (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Liquid Cooling Micropump for Thermal Management Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Data Centers and High-performance Computing

7.2.2 Consumer Electronics and Smart Terminals

7.2.3 Automotive Electronics and Robotics

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World Liquid Cooling Micropump for Thermal Management Production by Application (2021-2032)

7.3.2 World Liquid Cooling Micropump for Thermal Management Production Value by Application (2021-2032)

7.3.3 World Liquid Cooling Micropump for Thermal Management Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Takasago Fluidic Systems

8.1.1 Takasago Fluidic Systems Details

8.1.2 Takasago Fluidic Systems Major Business

8.1.3 Takasago Fluidic Systems Liquid Cooling Micropump for Thermal Management Product and Services

8.1.4 Takasago Fluidic Systems Liquid Cooling Micropump for Thermal Management

Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Takasago Fluidic Systems Recent Developments/Updates

8.1.6 Takasago Fluidic Systems Competitive Strengths & Weaknesses

8.2 NITTO KOHKI

8.2.1 NITTO KOHKI Details

8.2.2 NITTO KOHKI Major Business

8.2.3 NITTO KOHKI Liquid Cooling Micropump for Thermal Management Product and Services

8.2.4 NITTO KOHKI Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 NITTO KOHKI Recent Developments/Updates

8.2.6 NITTO KOHKI Competitive Strengths & Weaknesses

8.3 Bartels Mikrotechnik

8.3.1 Bartels Mikrotechnik Details

8.3.2 Bartels Mikrotechnik Major Business

8.3.3 Bartels Mikrotechnik Liquid Cooling Micropump for Thermal Management Product and Services

8.3.4 Bartels Mikrotechnik Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Bartels Mikrotechnik Recent Developments/Updates

8.3.6 Bartels Mikrotechnik Competitive Strengths & Weaknesses

8.4 MicroJet Technology

8.4.1 MicroJet Technology Details

8.4.2 MicroJet Technology Major Business

8.4.3 MicroJet Technology Liquid Cooling Micropump for Thermal Management Product and Services

8.4.4 MicroJet Technology Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 MicroJet Technology Recent Developments/Updates

8.4.6 MicroJet Technology Competitive Strengths & Weaknesses

8.5 Nippon Keiki Seisakusho

8.5.1 Nippon Keiki Seisakusho Details

8.5.2 Nippon Keiki Seisakusho Major Business

8.5.3 Nippon Keiki Seisakusho Liquid Cooling Micropump for Thermal Management Product and Services

8.5.4 Nippon Keiki Seisakusho Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Nippon Keiki Seisakusho Recent Developments/Updates

8.5.6 Nippon Keiki Seisakusho Competitive Strengths & Weaknesses

8.6 PiezoData

8.6.1 PiezoData Details

8.6.2 PiezoData Major Business

8.6.3 PiezoData Liquid Cooling Micropump for Thermal Management Product and Services

8.6.4 PiezoData Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 PiezoData Recent Developments/Updates

8.6.6 PiezoData Competitive Strengths & Weaknesses

8.7 VITO Fluid

8.7.1 VITO Fluid Details

8.7.2 VITO Fluid Major Business

8.7.3 VITO Fluid Liquid Cooling Micropump for Thermal Management Product and Services

8.7.4 VITO Fluid Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 VITO Fluid Recent Developments/Updates

8.7.6 VITO Fluid Competitive Strengths & Weaknesses

8.8 Huake Cold Core (Shanghai) Power Technology

8.8.1 Huake Cold Core (Shanghai) Power Technology Details

8.8.2 Huake Cold Core (Shanghai) Power Technology Major Business

8.8.3 Huake Cold Core (Shanghai) Power Technology Liquid Cooling Micropump for Thermal Management Product and Services

8.8.4 Huake Cold Core (Shanghai) Power Technology Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Huake Cold Core (Shanghai) Power Technology Recent Developments/Updates

8.8.6 Huake Cold Core (Shanghai) Power Technology Competitive Strengths & Weaknesses

8.9 BESTAR

8.9.1 BESTAR Details

8.9.2 BESTAR Major Business

8.9.3 BESTAR Liquid Cooling Micropump for Thermal Management Product and Services

8.9.4 BESTAR Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 BESTAR Recent Developments/Updates

8.9.6 BESTAR Competitive Strengths & Weaknesses

8.10 Dongguan Xizhe Electronics

- 8.10.1 Dongguan Xizhe Electronics Details
- 8.10.2 Dongguan Xizhe Electronics Major Business
- 8.10.3 Dongguan Xizhe Electronics Liquid Cooling Micropump for Thermal Management Product and Services
- 8.10.4 Dongguan Xizhe Electronics Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.10.5 Dongguan Xizhe Electronics Recent Developments/Updates
- 8.10.6 Dongguan Xizhe Electronics Competitive Strengths & Weaknesses
- 8.11 Jiangsu Ant Power Technology
 - 8.11.1 Jiangsu Ant Power Technology Details
 - 8.11.2 Jiangsu Ant Power Technology Major Business
 - 8.11.3 Jiangsu Ant Power Technology Liquid Cooling Micropump for Thermal Management Product and Services
 - 8.11.4 Jiangsu Ant Power Technology Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 Jiangsu Ant Power Technology Recent Developments/Updates
 - 8.11.6 Jiangsu Ant Power Technology Competitive Strengths & Weaknesses
- 8.12 Chengdu Huitong West-electronic
 - 8.12.1 Chengdu Huitong West-electronic Details
 - 8.12.2 Chengdu Huitong West-electronic Major Business
 - 8.12.3 Chengdu Huitong West-electronic Liquid Cooling Micropump for Thermal Management Product and Services
 - 8.12.4 Chengdu Huitong West-electronic Liquid Cooling Micropump for Thermal Management Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 Chengdu Huitong West-electronic Recent Developments/Updates
 - 8.12.6 Chengdu Huitong West-electronic Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Liquid Cooling Micropump for Thermal Management Industry Chain
- 9.2 Liquid Cooling Micropump for Thermal Management Upstream Analysis
 - 9.2.1 Liquid Cooling Micropump for Thermal Management Core Raw Materials
 - 9.2.2 Main Manufacturers of Liquid Cooling Micropump for Thermal Management Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Liquid Cooling Micropump for Thermal Management Production Mode
- 9.6 Liquid Cooling Micropump for Thermal Management Procurement Model
- 9.7 Liquid Cooling Micropump for Thermal Management Industry Sales Model and

Sales Channels

9.7.1 Liquid Cooling Micropump for Thermal Management Sales Model

9.7.2 Liquid Cooling Micropump for Thermal Management Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Liquid Cooling Micropump for Thermal Management Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Liquid Cooling Micropump for Thermal Management Production Value by Region (2021-2026) & (USD Million)

Table 3. World Liquid Cooling Micropump for Thermal Management Production Value by Region (2027-2032) & (USD Million)

Table 4. World Liquid Cooling Micropump for Thermal Management Production Value Market Share by Region (2021-2026)

Table 5. World Liquid Cooling Micropump for Thermal Management Production Value Market Share by Region (2027-2032)

Table 6. World Liquid Cooling Micropump for Thermal Management Production by Region (2021-2026) & (K Units)

Table 7. World Liquid Cooling Micropump for Thermal Management Production by Region (2027-2032) & (K Units)

Table 8. World Liquid Cooling Micropump for Thermal Management Production Market Share by Region (2021-2026)

Table 9. World Liquid Cooling Micropump for Thermal Management Production Market Share by Region (2027-2032)

Table 10. World Liquid Cooling Micropump for Thermal Management Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Liquid Cooling Micropump for Thermal Management Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Liquid Cooling Micropump for Thermal Management Major Market Trends

Table 13. World Liquid Cooling Micropump for Thermal Management Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Liquid Cooling Micropump for Thermal Management Consumption by Region (2021-2026) & (K Units)

Table 15. World Liquid Cooling Micropump for Thermal Management Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Liquid Cooling Micropump for Thermal Management Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Liquid Cooling Micropump for Thermal Management Producers in 2025

Table 18. World Liquid Cooling Micropump for Thermal Management Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Liquid Cooling Micropump for Thermal Management Producers in 2025

Table 20. World Liquid Cooling Micropump for Thermal Management Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Liquid Cooling Micropump for Thermal Management Company Evaluation Quadrant

Table 22. World Liquid Cooling Micropump for Thermal Management Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Liquid Cooling Micropump for Thermal Management Production Site of Key Manufacturer

Table 24. Liquid Cooling Micropump for Thermal Management Market: Company Product Type Footprint

Table 25. Liquid Cooling Micropump for Thermal Management Market: Company Product Application Footprint

Table 26. Liquid Cooling Micropump for Thermal Management Competitive Factors

Table 27. Liquid Cooling Micropump for Thermal Management New Entrant and Capacity Expansion Plans

Table 28. Liquid Cooling Micropump for Thermal Management Mergers & Acquisitions Activity

Table 29. United States VS China Liquid Cooling Micropump for Thermal Management Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Liquid Cooling Micropump for Thermal Management Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Liquid Cooling Micropump for Thermal Management Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Liquid Cooling Micropump for Thermal Management Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Liquid Cooling Micropump for Thermal Management Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Market Share (2021-2026)

Table 37. China Based Liquid Cooling Micropump for Thermal Management Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Liquid Cooling Micropump for Thermal Management Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Market Share (2021-2026)

Table 42. Rest of World Based Liquid Cooling Micropump for Thermal Management Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Liquid Cooling Micropump for Thermal Management Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Market Share (2021-2026)

Table 47. World Liquid Cooling Micropump for Thermal Management Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Liquid Cooling Micropump for Thermal Management Production by Type (2021-2026) & (K Units)

Table 49. World Liquid Cooling Micropump for Thermal Management Production by Type (2027-2032) & (K Units)

Table 50. World Liquid Cooling Micropump for Thermal Management Production Value by Type (2021-2026) & (USD Million)

Table 51. World Liquid Cooling Micropump for Thermal Management Production Value by Type (2027-2032) & (USD Million)

Table 52. World Liquid Cooling Micropump for Thermal Management Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Liquid Cooling Micropump for Thermal Management Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Liquid Cooling Micropump for Thermal Management Production Value by Flow Rate, (USD Million), 2021 & 2025 & 2032

Table 55. World Liquid Cooling Micropump for Thermal Management Production by Flow Rate (2021-2026) & (K Units)

Table 56. World Liquid Cooling Micropump for Thermal Management Production by Flow Rate (2027-2032) & (K Units)

Table 57. World Liquid Cooling Micropump for Thermal Management Production Value by Flow Rate (2021-2026) & (USD Million)

Table 58. World Liquid Cooling Micropump for Thermal Management Production Value

by Flow Rate (2027-2032) & (USD Million)

Table 59. World Liquid Cooling Micropump for Thermal Management Average Price by Flow Rate (2021-2026) & (US\$/Unit)

Table 60. World Liquid Cooling Micropump for Thermal Management Average Price by Flow Rate (2027-2032) & (US\$/Unit)

Table 61. World Liquid Cooling Micropump for Thermal Management Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Liquid Cooling Micropump for Thermal Management Production by Application (2021-2026) & (K Units)

Table 63. World Liquid Cooling Micropump for Thermal Management Production by Application (2027-2032) & (K Units)

Table 64. World Liquid Cooling Micropump for Thermal Management Production Value by Application (2021-2026) & (USD Million)

Table 65. World Liquid Cooling Micropump for Thermal Management Production Value by Application (2027-2032) & (USD Million)

Table 66. World Liquid Cooling Micropump for Thermal Management Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Liquid Cooling Micropump for Thermal Management Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Takasago Fluidic Systems Basic Information, Manufacturing Base and Competitors

Table 69. Takasago Fluidic Systems Major Business

Table 70. Takasago Fluidic Systems Liquid Cooling Micropump for Thermal Management Product and Services

Table 71. Takasago Fluidic Systems Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Takasago Fluidic Systems Recent Developments/Updates

Table 73. Takasago Fluidic Systems Competitive Strengths & Weaknesses

Table 74. NITTO KOHKI Basic Information, Manufacturing Base and Competitors

Table 75. NITTO KOHKI Major Business

Table 76. NITTO KOHKI Liquid Cooling Micropump for Thermal Management Product and Services

Table 77. NITTO KOHKI Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. NITTO KOHKI Recent Developments/Updates

Table 79. NITTO KOHKI Competitive Strengths & Weaknesses

Table 80. Bartels Mikrotechnik Basic Information, Manufacturing Base and Competitors

Table 81. Bartels Mikrotechnik Major Business

Table 82. Bartels Mikrotechnik Liquid Cooling Micropump for Thermal Management Product and Services

Table 83. Bartels Mikrotechnik Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Bartels Mikrotechnik Recent Developments/Updates

Table 85. Bartels Mikrotechnik Competitive Strengths & Weaknesses

Table 86. MicroJet Technology Basic Information, Manufacturing Base and Competitors

Table 87. MicroJet Technology Major Business

Table 88. MicroJet Technology Liquid Cooling Micropump for Thermal Management Product and Services

Table 89. MicroJet Technology Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. MicroJet Technology Recent Developments/Updates

Table 91. MicroJet Technology Competitive Strengths & Weaknesses

Table 92. Nippon Keiki Seisakusho Basic Information, Manufacturing Base and Competitors

Table 93. Nippon Keiki Seisakusho Major Business

Table 94. Nippon Keiki Seisakusho Liquid Cooling Micropump for Thermal Management Product and Services

Table 95. Nippon Keiki Seisakusho Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Nippon Keiki Seisakusho Recent Developments/Updates

Table 97. Nippon Keiki Seisakusho Competitive Strengths & Weaknesses

Table 98. PiezoData Basic Information, Manufacturing Base and Competitors

Table 99. PiezoData Major Business

Table 100. PiezoData Liquid Cooling Micropump for Thermal Management Product and Services

Table 101. PiezoData Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. PiezoData Recent Developments/Updates

Table 103. PiezoData Competitive Strengths & Weaknesses

Table 104. VITO Fluid Basic Information, Manufacturing Base and Competitors

Table 105. VITO Fluid Major Business

Table 106. VITO Fluid Liquid Cooling Micropump for Thermal Management Product and

Services

Table 107. VITO Fluid Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. VITO Fluid Recent Developments/Updates

Table 109. VITO Fluid Competitive Strengths & Weaknesses

Table 110. Huake Cold Core (Shanghai) Power Technology Basic Information, Manufacturing Base and Competitors

Table 111. Huake Cold Core (Shanghai) Power Technology Major Business

Table 112. Huake Cold Core (Shanghai) Power Technology Liquid Cooling Micropump for Thermal Management Product and Services

Table 113. Huake Cold Core (Shanghai) Power Technology Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Huake Cold Core (Shanghai) Power Technology Recent Developments/Updates

Table 115. Huake Cold Core (Shanghai) Power Technology Competitive Strengths & Weaknesses

Table 116. BESTAR Basic Information, Manufacturing Base and Competitors

Table 117. BESTAR Major Business

Table 118. BESTAR Liquid Cooling Micropump for Thermal Management Product and Services

Table 119. BESTAR Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. BESTAR Recent Developments/Updates

Table 121. BESTAR Competitive Strengths & Weaknesses

Table 122. Dongguan Xizhe Electronics Basic Information, Manufacturing Base and Competitors

Table 123. Dongguan Xizhe Electronics Major Business

Table 124. Dongguan Xizhe Electronics Liquid Cooling Micropump for Thermal Management Product and Services

Table 125. Dongguan Xizhe Electronics Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Dongguan Xizhe Electronics Recent Developments/Updates

Table 127. Dongguan Xizhe Electronics Competitive Strengths & Weaknesses

Table 128. Jiangsu Ant Power Technology Basic Information, Manufacturing Base and Competitors

Table 129. Jiangsu Ant Power Technology Major Business

Table 130. Jiangsu Ant Power Technology Liquid Cooling Micropump for Thermal Management Product and Services

Table 131. Jiangsu Ant Power Technology Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Jiangsu Ant Power Technology Recent Developments/Updates

Table 133. Jiangsu Ant Power Technology Competitive Strengths & Weaknesses

Table 134. Chengdu Huitong West-electronic Basic Information, Manufacturing Base and Competitors

Table 135. Chengdu Huitong West-electronic Major Business

Table 136. Chengdu Huitong West-electronic Liquid Cooling Micropump for Thermal Management Product and Services

Table 137. Chengdu Huitong West-electronic Liquid Cooling Micropump for Thermal Management Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Chengdu Huitong West-electronic Recent Developments/Updates

Table 139. Chengdu Huitong West-electronic Competitive Strengths & Weaknesses

Table 140. Global Key Players of Liquid Cooling Micropump for Thermal Management Upstream (Raw Materials)

Table 141. Global Liquid Cooling Micropump for Thermal Management Typical Customers

Table 142. Liquid Cooling Micropump for Thermal Management Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Liquid Cooling Micropump for Thermal Management Picture

Figure 2. World Liquid Cooling Micropump for Thermal Management Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Liquid Cooling Micropump for Thermal Management Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Liquid Cooling Micropump for Thermal Management Production (2021-2032) & (K Units)

Figure 5. World Liquid Cooling Micropump for Thermal Management Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Liquid Cooling Micropump for Thermal Management Production Value Market Share by Region (2021-2032)

Figure 7. World Liquid Cooling Micropump for Thermal Management Production Market Share by Region (2021-2032)

Figure 8. North America Liquid Cooling Micropump for Thermal Management Production (2021-2032) & (K Units)

Figure 9. Europe Liquid Cooling Micropump for Thermal Management Production (2021-2032) & (K Units)

Figure 10. China Liquid Cooling Micropump for Thermal Management Production (2021-2032) & (K Units)

Figure 11. Japan Liquid Cooling Micropump for Thermal Management Production (2021-2032) & (K Units)

Figure 12. South Korea Liquid Cooling Micropump for Thermal Management Production (2021-2032) & (K Units)

Figure 13. Southeast Asia Liquid Cooling Micropump for Thermal Management Production (2021-2032) & (K Units)

Figure 14. China Taiwan Liquid Cooling Micropump for Thermal Management Production (2021-2032) & (K Units)

Figure 15. Liquid Cooling Micropump for Thermal Management Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Liquid Cooling Micropump for Thermal Management Consumption (2021-2032) & (K Units)

Figure 18. World Liquid Cooling Micropump for Thermal Management Consumption Market Share by Region (2021-2032)

Figure 19. United States Liquid Cooling Micropump for Thermal Management Consumption (2021-2032) & (K Units)

Figure 20. China Liquid Cooling Micropump for Thermal Management Consumption (2021-2032) & (K Units)

Figure 21. Europe Liquid Cooling Micropump for Thermal Management Consumption (2021-2032) & (K Units)

Figure 22. Japan Liquid Cooling Micropump for Thermal Management Consumption (2021-2032) & (K Units)

Figure 23. South Korea Liquid Cooling Micropump for Thermal Management Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Liquid Cooling Micropump for Thermal Management Consumption (2021-2032) & (K Units)

Figure 25. India Liquid Cooling Micropump for Thermal Management Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Liquid Cooling Micropump for Thermal Management by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Liquid Cooling Micropump for Thermal Management Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Liquid Cooling Micropump for Thermal Management Markets in 2025

Figure 29. United States VS China: Liquid Cooling Micropump for Thermal Management Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Liquid Cooling Micropump for Thermal Management Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Liquid Cooling Micropump for Thermal Management Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Market Share 2025

Figure 33. China Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Liquid Cooling Micropump for Thermal Management Production Market Share 2025

Figure 35. World Liquid Cooling Micropump for Thermal Management Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Liquid Cooling Micropump for Thermal Management Production Value Market Share by Type in 2025

Figure 37. Piezoelectric Micro Liquid Cooling Pumps

Figure 38. Motor-driven Micro Liquid Cooling Pumps

Figure 39. Other Micro Liquid Cooling Pumps

Figure 40. World Liquid Cooling Micropump for Thermal Management Production Market Share by Type (2021-2032)

Figure 41. World Liquid Cooling Micropump for Thermal Management Production Value Market Share by Type (2021-2032)

Figure 42. World Liquid Cooling Micropump for Thermal Management Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Liquid Cooling Micropump for Thermal Management Production Value by Flow Rate, (USD Million), 2021 & 2025 & 2032

Figure 44. World Liquid Cooling Micropump for Thermal Management Production Value Market Share by Flow Rate in 2025

Figure 45. Ultra-low-flow Micro Liquid Cooling Pumps

Figure 46. Low-flow Micro Liquid Cooling Pumps

Figure 47. Medium-flow Micro Liquid Cooling Pumps

Figure 48. High-flow Compact Liquid Cooling Pumps

Figure 49. World Liquid Cooling Micropump for Thermal Management Production Market Share by Flow Rate (2021-2032)

Figure 50. World Liquid Cooling Micropump for Thermal Management Production Value Market Share by Flow Rate (2021-2032)

Figure 51. World Liquid Cooling Micropump for Thermal Management Average Price by Flow Rate (2021-2032) & (US\$/Unit)

Figure 52. World Liquid Cooling Micropump for Thermal Management Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 53. World Liquid Cooling Micropump for Thermal Management Production Value Market Share by Application in 2025

Figure 54. Data Centers and High-performance Computing

Figure 55. Consumer Electronics and Smart Terminals

Figure 56. Automotive Electronics and Robotics

Figure 57. Others

Figure 58. World Liquid Cooling Micropump for Thermal Management Production Market Share by Application (2021-2032)

Figure 59. World Liquid Cooling Micropump for Thermal Management Production Value Market Share by Application (2021-2032)

Figure 60. World Liquid Cooling Micropump for Thermal Management Average Price by Application (2021-2032) & (US\$/Unit)

Figure 61. Liquid Cooling Micropump for Thermal Management Industry Chain

Figure 62. Liquid Cooling Micropump for Thermal Management Procurement Model

Figure 63. Liquid Cooling Micropump for Thermal Management Sales Model

Figure 64. Liquid Cooling Micropump for Thermal Management Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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