

Global Active Thermal Management Liquid Cooling Micropump Market Growth 2026-2032

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Abstracts

The global Active Thermal Management Liquid Cooling Micropump market size is predicted to grow from US\$ 44.20 million in 2025 to US\$ 63.51 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 2032.

Active Thermal Management Liquid Cooling Micropump 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, Active Thermal Management Liquid Cooling Micropumps 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 Active Thermal Management Liquid Cooling Micropump 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 Active Thermal Management Liquid Cooling Micropumps 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 Active Thermal Management Liquid Cooling Micropumps from standalone components toward customized thermal management modules.

United States market for Active Thermal Management Liquid Cooling Micropump is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Active Thermal Management Liquid Cooling Micropump is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Active Thermal Management Liquid Cooling Micropump is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Active Thermal Management Liquid Cooling Micropump players cover Takasago Fluidic Systems, NITTO KOHKI, Bartels Mikrotechnik, MicroJet Technology, Nippon Keiki Seisakusho, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Active Thermal Management Liquid Cooling Micropump Industry Forecast" looks at past sales and reviews total world Active Thermal Management Liquid Cooling Micropump sales in 2025, providing a comprehensive analysis by region and market sector of projected Active Thermal Management Liquid Cooling Micropump sales for 2026 through 2032. With Active Thermal Management Liquid Cooling Micropump sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Active Thermal Management Liquid Cooling Micropump industry.

This Insight Report provides a comprehensive analysis of the global Active Thermal Management Liquid Cooling Micropump landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest

development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Active Thermal Management Liquid Cooling Micropump portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Active Thermal Management Liquid Cooling Micropump market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Active Thermal Management Liquid Cooling Micropump and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Active Thermal Management Liquid Cooling Micropump.

This report presents a comprehensive overview, market shares, and growth opportunities of Active Thermal Management Liquid Cooling Micropump market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Piezoelectric Micro Liquid Cooling Pumps

Motor-driven Micro Liquid Cooling Pumps

Other Micro Liquid Cooling Pumps

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

Segmentation by Application:

Data Centers and High-performance Computing

Consumer Electronics and Smart Terminals

Automotive Electronics and Robotics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Active Thermal Management Liquid Cooling Micropump market?

What factors are driving Active Thermal Management Liquid Cooling Micropump market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Active Thermal Management Liquid Cooling Micropump market opportunities vary by end market size?

How does Active Thermal Management Liquid Cooling Micropump break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global Active Thermal Management Liquid Cooling Micropump Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for Active Thermal Management Liquid Cooling Micropump by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for Active Thermal Management Liquid Cooling Micropump by Country/Region, 2021, 2025 & 2032

2.2 Active Thermal Management Liquid Cooling Micropump Segment by Type

2.2.1 Piezoelectric Micro Liquid Cooling Pumps

2.2.2 Motor-driven Micro Liquid Cooling Pumps

2.2.3 Other Micro Liquid Cooling Pumps

2.2.4 Active Thermal Management Liquid Cooling Micropump Sales by Type

2.2.4.1 Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Type (2021-2026)

2.2.4.2 Global Active Thermal Management Liquid Cooling Micropump Revenue and Market Share by Type (2021-2026)

2.2.4.3 Global Active Thermal Management Liquid Cooling Micropump Sale Price by Type (2021-2026)

2.3 Active Thermal Management Liquid Cooling Micropump Segment by Flow Rate

2.3.1 Ultra-low-flow Micro Liquid Cooling Pumps

2.3.2 Low-flow Micro Liquid Cooling Pumps

2.3.3 Medium-flow Micro Liquid Cooling Pumps

2.3.4 High-flow Compact Liquid Cooling Pumps

2.3.5 Active Thermal Management Liquid Cooling Micropump Sales by Flow Rate

2.3.5.1 Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Flow Rate (2021-2026)

2.3.5.2 Global Active Thermal Management Liquid Cooling Micropump Revenue and Market Share by Flow Rate (2021-2026)

2.3.5.3 Global Active Thermal Management Liquid Cooling Micropump Sale Price by Flow Rate (2021-2026)

2.4 Active Thermal Management Liquid Cooling Micropump Segment by Application

2.4.1 Data Centers and High-performance Computing

2.4.2 Consumer Electronics and Smart Terminals

2.4.3 Automotive Electronics and Robotics

2.4.4 Others

2.4.5 Active Thermal Management Liquid Cooling Micropump Sales by Application

2.4.5.1 Global Active Thermal Management Liquid Cooling Micropump Sale Market Share by Application (2021-2026)

2.4.5.2 Global Active Thermal Management Liquid Cooling Micropump Revenue and Market Share by Application (2021-2026)

2.4.5.3 Global Active Thermal Management Liquid Cooling Micropump Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Active Thermal Management Liquid Cooling Micropump Breakdown Data by Company

3.1.1 Global Active Thermal Management Liquid Cooling Micropump Annual Sales by Company (2021-2026)

3.1.2 Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Company (2021-2026)

3.2 Global Active Thermal Management Liquid Cooling Micropump Annual Revenue by Company (2021-2026)

3.2.1 Global Active Thermal Management Liquid Cooling Micropump Revenue by Company (2021-2026)

3.2.2 Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Company (2021-2026)

3.3 Global Active Thermal Management Liquid Cooling Micropump Sale Price by Company

3.4 Key Manufacturers Active Thermal Management Liquid Cooling Micropump Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Active Thermal Management Liquid Cooling Micropump Product Location Distribution

3.4.2 Players Active Thermal Management Liquid Cooling Micropump Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ACTIVE THERMAL MANAGEMENT LIQUID COOLING MICROPUMP BY GEOGRAPHIC REGION

4.1 World Historic Active Thermal Management Liquid Cooling Micropump Market Size by Geographic Region (2021-2026)

4.1.1 Global Active Thermal Management Liquid Cooling Micropump Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Active Thermal Management Liquid Cooling Micropump Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Active Thermal Management Liquid Cooling Micropump Market Size by Country/Region (2021-2026)

4.2.1 Global Active Thermal Management Liquid Cooling Micropump Annual Sales by Country/Region (2021-2026)

4.2.2 Global Active Thermal Management Liquid Cooling Micropump Annual Revenue by Country/Region (2021-2026)

4.3 Americas Active Thermal Management Liquid Cooling Micropump Sales Growth

4.4 APAC Active Thermal Management Liquid Cooling Micropump Sales Growth

4.5 Europe Active Thermal Management Liquid Cooling Micropump Sales Growth

4.6 Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales Growth

5 AMERICAS

5.1 Americas Active Thermal Management Liquid Cooling Micropump Sales by Country

5.1.1 Americas Active Thermal Management Liquid Cooling Micropump Sales by Country (2021-2026)

5.1.2 Americas Active Thermal Management Liquid Cooling Micropump Revenue by Country (2021-2026)

5.2 Americas Active Thermal Management Liquid Cooling Micropump Sales by Type (2021-2026)

5.3 Americas Active Thermal Management Liquid Cooling Micropump Sales by

Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Active Thermal Management Liquid Cooling Micropump Sales by Region

6.1.1 APAC Active Thermal Management Liquid Cooling Micropump Sales by Region (2021-2026)

6.1.2 APAC Active Thermal Management Liquid Cooling Micropump Revenue by Region (2021-2026)

6.2 APAC Active Thermal Management Liquid Cooling Micropump Sales by Type (2021-2026)

6.3 APAC Active Thermal Management Liquid Cooling Micropump Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Active Thermal Management Liquid Cooling Micropump by Country

7.1.1 Europe Active Thermal Management Liquid Cooling Micropump Sales by Country (2021-2026)

7.1.2 Europe Active Thermal Management Liquid Cooling Micropump Revenue by Country (2021-2026)

7.2 Europe Active Thermal Management Liquid Cooling Micropump Sales by Type (2021-2026)

7.3 Europe Active Thermal Management Liquid Cooling Micropump Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Active Thermal Management Liquid Cooling Micropump by Country

8.1.1 Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales by Country (2021-2026)

8.1.2 Middle East & Africa Active Thermal Management Liquid Cooling Micropump Revenue by Country (2021-2026)

8.2 Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales by Type (2021-2026)

8.3 Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Active Thermal Management Liquid Cooling Micropump

10.3 Manufacturing Process Analysis of Active Thermal Management Liquid Cooling Micropump

10.4 Industry Chain Structure of Active Thermal Management Liquid Cooling Micropump

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Active Thermal Management Liquid Cooling Micropump Distributors

11.3 Active Thermal Management Liquid Cooling Micropump Customer

12 WORLD FORECAST REVIEW FOR ACTIVE THERMAL MANAGEMENT LIQUID COOLING MICROPUMP BY GEOGRAPHIC REGION

12.1 Global Active Thermal Management Liquid Cooling Micropump Market Size Forecast by Region

12.1.1 Global Active Thermal Management Liquid Cooling Micropump Forecast by Region (2027-2032)

12.1.2 Global Active Thermal Management Liquid Cooling Micropump Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Active Thermal Management Liquid Cooling Micropump Forecast by Type (2027-2032)

12.7 Global Active Thermal Management Liquid Cooling Micropump Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Takasago Fluidic Systems

13.1.1 Takasago Fluidic Systems Company Information

13.1.2 Takasago Fluidic Systems Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

13.1.3 Takasago Fluidic Systems Active Thermal Management Liquid Cooling Micropump Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Takasago Fluidic Systems Main Business Overview

13.1.5 Takasago Fluidic Systems Latest Developments

13.2 NITTO KOHKI

13.2.1 NITTO KOHKI Company Information

13.2.2 NITTO KOHKI Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

13.2.3 NITTO KOHKI Active Thermal Management Liquid Cooling Micropump Sales,

Revenue, Price and Gross Margin (2021-2026)

13.2.4 NITTO KOHKI Main Business Overview

13.2.5 NITTO KOHKI Latest Developments

13.3 Bartels Mikrotechnik

13.3.1 Bartels Mikrotechnik Company Information

13.3.2 Bartels Mikrotechnik Active Thermal Management Liquid Cooling Micropump

Product Portfolios and Specifications

13.3.3 Bartels Mikrotechnik Active Thermal Management Liquid Cooling Micropump

Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Bartels Mikrotechnik Main Business Overview

13.3.5 Bartels Mikrotechnik Latest Developments

13.4 MicroJet Technology

13.4.1 MicroJet Technology Company Information

13.4.2 MicroJet Technology Active Thermal Management Liquid Cooling Micropump

Product Portfolios and Specifications

13.4.3 MicroJet Technology Active Thermal Management Liquid Cooling Micropump

Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 MicroJet Technology Main Business Overview

13.4.5 MicroJet Technology Latest Developments

13.5 Nippon Keiki Seisakusho

13.5.1 Nippon Keiki Seisakusho Company Information

13.5.2 Nippon Keiki Seisakusho Active Thermal Management Liquid Cooling

Micropump Product Portfolios and Specifications

13.5.3 Nippon Keiki Seisakusho Active Thermal Management Liquid Cooling

Micropump Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Nippon Keiki Seisakusho Main Business Overview

13.5.5 Nippon Keiki Seisakusho Latest Developments

13.6 PiezoData

13.6.1 PiezoData Company Information

13.6.2 PiezoData Active Thermal Management Liquid Cooling Micropump Product

Portfolios and Specifications

13.6.3 PiezoData Active Thermal Management Liquid Cooling Micropump Sales,

Revenue, Price and Gross Margin (2021-2026)

13.6.4 PiezoData Main Business Overview

13.6.5 PiezoData Latest Developments

13.7 VITO Fluid

13.7.1 VITO Fluid Company Information

13.7.2 VITO Fluid Active Thermal Management Liquid Cooling Micropump Product

Portfolios and Specifications

13.7.3 VITO Fluid Active Thermal Management Liquid Cooling Micropump Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 VITO Fluid Main Business Overview

13.7.5 VITO Fluid Latest Developments

13.8 Huake Cold Core (Shanghai) Power Technology

13.8.1 Huake Cold Core (Shanghai) Power Technology Company Information

13.8.2 Huake Cold Core (Shanghai) Power Technology Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

13.8.3 Huake Cold Core (Shanghai) Power Technology Active Thermal Management Liquid Cooling Micropump Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Huake Cold Core (Shanghai) Power Technology Main Business Overview

13.8.5 Huake Cold Core (Shanghai) Power Technology Latest Developments

13.9 BESTAR

13.9.1 BESTAR Company Information

13.9.2 BESTAR Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

13.9.3 BESTAR Active Thermal Management Liquid Cooling Micropump Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 BESTAR Main Business Overview

13.9.5 BESTAR Latest Developments

13.10 Dongguan Xizhe Electronics

13.10.1 Dongguan Xizhe Electronics Company Information

13.10.2 Dongguan Xizhe Electronics Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

13.10.3 Dongguan Xizhe Electronics Active Thermal Management Liquid Cooling Micropump Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Dongguan Xizhe Electronics Main Business Overview

13.10.5 Dongguan Xizhe Electronics Latest Developments

13.11 Jiangsu Ant Power Technology

13.11.1 Jiangsu Ant Power Technology Company Information

13.11.2 Jiangsu Ant Power Technology Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

13.11.3 Jiangsu Ant Power Technology Active Thermal Management Liquid Cooling Micropump Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Jiangsu Ant Power Technology Main Business Overview

13.11.5 Jiangsu Ant Power Technology Latest Developments

13.12 Chengdu Huitong West-electronic

13.12.1 Chengdu Huitong West-electronic Company Information

13.12.2 Chengdu Huitong West-electronic Active Thermal Management Liquid Cooling

Micropump Product Portfolios and Specifications

13.12.3 Chengdu Huitong West-electronic Active Thermal Management Liquid Cooling
Micropump Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Chengdu Huitong West-electronic Main Business Overview

13.12.5 Chengdu Huitong West-electronic Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Active Thermal Management Liquid Cooling Micropump Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Active Thermal Management Liquid Cooling Micropump Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Piezoelectric Micro Liquid Cooling Pumps

Table 4. Major Players of Motor-driven Micro Liquid Cooling Pumps

Table 5. Major Players of Other Micro Liquid Cooling Pumps

Table 6. Global Active Thermal Management Liquid Cooling Micropump Sales by Type (2021-2026) & (K Units)

Table 7. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Type (2021-2026)

Table 8. Global Active Thermal Management Liquid Cooling Micropump Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Type (2021-2026)

Table 10. Global Active Thermal Management Liquid Cooling Micropump Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Ultra-low-flow Micro Liquid Cooling Pumps

Table 12. Major Players of Low-flow Micro Liquid Cooling Pumps

Table 13. Major Players of Medium-flow Micro Liquid Cooling Pumps

Table 14. Major Players of High-flow Compact Liquid Cooling Pumps

Table 15. Global Active Thermal Management Liquid Cooling Micropump Sales by Flow Rate (2021-2026) & (K Units)

Table 16. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Flow Rate (2021-2026)

Table 17. Global Active Thermal Management Liquid Cooling Micropump Revenue by Flow Rate (2021-2026) & (\$ million)

Table 18. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Flow Rate (2021-2026)

Table 19. Global Active Thermal Management Liquid Cooling Micropump Sale Price by Flow Rate (2021-2026) & (US\$/Unit)

Table 20. Global Active Thermal Management Liquid Cooling Micropump Sale by Application (2021-2026) & (K Units)

Table 21. Global Active Thermal Management Liquid Cooling Micropump Sale Market Share by Application (2021-2026)

Table 22. Global Active Thermal Management Liquid Cooling Micropump Revenue by Application (2021-2026) & (\$ million)

Table 23. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Application (2021-2026)

Table 24. Global Active Thermal Management Liquid Cooling Micropump Sale Price by Application (2021-2026) & (US\$/Unit)

Table 25. Global Active Thermal Management Liquid Cooling Micropump Sales by Company (2021-2026) & (K Units)

Table 26. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Company (2021-2026)

Table 27. Global Active Thermal Management Liquid Cooling Micropump Revenue by Company (2021-2026) & (\$ millions)

Table 28. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Company (2021-2026)

Table 29. Global Active Thermal Management Liquid Cooling Micropump Sale Price by Company (2021-2026) & (US\$/Unit)

Table 30. Key Manufacturers Active Thermal Management Liquid Cooling Micropump Producing Area Distribution and Sales Area

Table 31. Players Active Thermal Management Liquid Cooling Micropump Products Offered

Table 32. Active Thermal Management Liquid Cooling Micropump Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 33. New Products and Potential Entrants

Table 34. Market M&A Activity & Strategy

Table 35. Global Active Thermal Management Liquid Cooling Micropump Sales by Geographic Region (2021-2026) & (K Units)

Table 36. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share Geographic Region (2021-2026)

Table 37. Global Active Thermal Management Liquid Cooling Micropump Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 38. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Geographic Region (2021-2026)

Table 39. Global Active Thermal Management Liquid Cooling Micropump Sales by Country/Region (2021-2026) & (K Units)

Table 40. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Country/Region (2021-2026)

Table 41. Global Active Thermal Management Liquid Cooling Micropump Revenue by Country/Region (2021-2026) & (\$ millions)

Table 42. Global Active Thermal Management Liquid Cooling Micropump Revenue

Market Share by Country/Region (2021-2026)

Table 43. Americas Active Thermal Management Liquid Cooling Micropump Sales by Country (2021-2026) & (K Units)

Table 44. Americas Active Thermal Management Liquid Cooling Micropump Sales Market Share by Country (2021-2026)

Table 45. Americas Active Thermal Management Liquid Cooling Micropump Revenue by Country (2021-2026) & (\$ millions)

Table 46. Americas Active Thermal Management Liquid Cooling Micropump Sales by Type (2021-2026) & (K Units)

Table 47. Americas Active Thermal Management Liquid Cooling Micropump Sales by Application (2021-2026) & (K Units)

Table 48. APAC Active Thermal Management Liquid Cooling Micropump Sales by Region (2021-2026) & (K Units)

Table 49. APAC Active Thermal Management Liquid Cooling Micropump Sales Market Share by Region (2021-2026)

Table 50. APAC Active Thermal Management Liquid Cooling Micropump Revenue by Region (2021-2026) & (\$ millions)

Table 51. APAC Active Thermal Management Liquid Cooling Micropump Sales by Type (2021-2026) & (K Units)

Table 52. APAC Active Thermal Management Liquid Cooling Micropump Sales by Application (2021-2026) & (K Units)

Table 53. Europe Active Thermal Management Liquid Cooling Micropump Sales by Country (2021-2026) & (K Units)

Table 54. Europe Active Thermal Management Liquid Cooling Micropump Revenue by Country (2021-2026) & (\$ millions)

Table 55. Europe Active Thermal Management Liquid Cooling Micropump Sales by Type (2021-2026) & (K Units)

Table 56. Europe Active Thermal Management Liquid Cooling Micropump Sales by Application (2021-2026) & (K Units)

Table 57. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales by Country (2021-2026) & (K Units)

Table 58. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Country (2021-2026)

Table 59. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales by Type (2021-2026) & (K Units)

Table 60. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales by Application (2021-2026) & (K Units)

Table 61. Key Market Drivers & Growth Opportunities of Active Thermal Management Liquid Cooling Micropump

Table 62. Key Market Challenges & Risks of Active Thermal Management Liquid Cooling Micropump

Table 63. Key Industry Trends of Active Thermal Management Liquid Cooling Micropump

Table 64. Active Thermal Management Liquid Cooling Micropump Raw Material

Table 65. Key Suppliers of Raw Materials

Table 66. Active Thermal Management Liquid Cooling Micropump Distributors List

Table 67. Active Thermal Management Liquid Cooling Micropump Customer List

Table 68. Global Active Thermal Management Liquid Cooling Micropump Sales Forecast by Region (2027-2032) & (K Units)

Table 69. Global Active Thermal Management Liquid Cooling Micropump Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 70. Americas Active Thermal Management Liquid Cooling Micropump Sales Forecast by Country (2027-2032) & (K Units)

Table 71. Americas Active Thermal Management Liquid Cooling Micropump Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 72. APAC Active Thermal Management Liquid Cooling Micropump Sales Forecast by Region (2027-2032) & (K Units)

Table 73. APAC Active Thermal Management Liquid Cooling Micropump Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 74. Europe Active Thermal Management Liquid Cooling Micropump Sales Forecast by Country (2027-2032) & (K Units)

Table 75. Europe Active Thermal Management Liquid Cooling Micropump Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales Forecast by Country (2027-2032) & (K Units)

Table 77. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. Global Active Thermal Management Liquid Cooling Micropump Sales Forecast by Type (2027-2032) & (K Units)

Table 79. Global Active Thermal Management Liquid Cooling Micropump Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 80. Global Active Thermal Management Liquid Cooling Micropump Sales Forecast by Application (2027-2032) & (K Units)

Table 81. Global Active Thermal Management Liquid Cooling Micropump Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 82. Takasago Fluidic Systems Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 83. Takasago Fluidic Systems Active Thermal Management Liquid Cooling

Micropump Product Portfolios and Specifications

Table 84. Takasago Fluidic Systems Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 85. Takasago Fluidic Systems Main Business

Table 86. Takasago Fluidic Systems Latest Developments

Table 87. NITTO KOHKI Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 88. NITTO KOHKI Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 89. NITTO KOHKI Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. NITTO KOHKI Main Business

Table 91. NITTO KOHKI Latest Developments

Table 92. Bartels Mikrotechnik Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 93. Bartels Mikrotechnik Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 94. Bartels Mikrotechnik Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Bartels Mikrotechnik Main Business

Table 96. Bartels Mikrotechnik Latest Developments

Table 97. MicroJet Technology Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 98. MicroJet Technology Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 99. MicroJet Technology Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. MicroJet Technology Main Business

Table 101. MicroJet Technology Latest Developments

Table 102. Nippon Keiki Seisakusho Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 103. Nippon Keiki Seisakusho Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 104. Nippon Keiki Seisakusho Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Nippon Keiki Seisakusho Main Business

Table 106. Nippon Keiki Seisakusho Latest Developments

Table 107. PiezoData Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 108. PiezoData Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 109. PiezoData Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. PiezoData Main Business

Table 111. PiezoData Latest Developments

Table 112. VITO Fluid Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 113. VITO Fluid Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 114. VITO Fluid Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. VITO Fluid Main Business

Table 116. VITO Fluid Latest Developments

Table 117. Huake Cold Core (Shanghai) Power Technology Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 118. Huake Cold Core (Shanghai) Power Technology Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 119. Huake Cold Core (Shanghai) Power Technology Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. Huake Cold Core (Shanghai) Power Technology Main Business

Table 121. Huake Cold Core (Shanghai) Power Technology Latest Developments

Table 122. BESTAR Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 123. BESTAR Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 124. BESTAR Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. BESTAR Main Business

Table 126. BESTAR Latest Developments

Table 127. Dongguan Xizhe Electronics Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 128. Dongguan Xizhe Electronics Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 129. Dongguan Xizhe Electronics Active Thermal Management Liquid Cooling

Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Dongguan Xizhe Electronics Main Business

Table 131. Dongguan Xizhe Electronics Latest Developments

Table 132. Jiangsu Ant Power Technology Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 133. Jiangsu Ant Power Technology Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 134. Jiangsu Ant Power Technology Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Jiangsu Ant Power Technology Main Business

Table 136. Jiangsu Ant Power Technology Latest Developments

Table 137. Chengdu Huitong West-electronic Basic Information, Active Thermal Management Liquid Cooling Micropump Manufacturing Base, Sales Area and Its Competitors

Table 138. Chengdu Huitong West-electronic Active Thermal Management Liquid Cooling Micropump Product Portfolios and Specifications

Table 139. Chengdu Huitong West-electronic Active Thermal Management Liquid Cooling Micropump Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 140. Chengdu Huitong West-electronic Main Business

Table 141. Chengdu Huitong West-electronic Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Active Thermal Management Liquid Cooling Micropump
- Figure 2. Active Thermal Management Liquid Cooling Micropump Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Active Thermal Management Liquid Cooling Micropump Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Active Thermal Management Liquid Cooling Micropump Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Active Thermal Management Liquid Cooling Micropump Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Active Thermal Management Liquid Cooling Micropump Sales Market Share by Country/Region (2025)
- Figure 10. Active Thermal Management Liquid Cooling Micropump Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Piezoelectric Micro Liquid Cooling Pumps
- Figure 12. Product Picture of Motor-driven Micro Liquid Cooling Pumps
- Figure 13. Product Picture of Other Micro Liquid Cooling Pumps
- Figure 14. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Type in 2026
- Figure 15. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Ultra-low-flow Micro Liquid Cooling Pumps
- Figure 17. Product Picture of Low-flow Micro Liquid Cooling Pumps
- Figure 18. Product Picture of Medium-flow Micro Liquid Cooling Pumps
- Figure 19. Product Picture of High-flow Compact Liquid Cooling Pumps
- Figure 20. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Flow Rate in 2026
- Figure 21. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Flow Rate (2021-2026)
- Figure 22. Active Thermal Management Liquid Cooling Micropump Consumed in Data Centers and High-performance Computing
- Figure 23. Global Active Thermal Management Liquid Cooling Micropump Market: Data Centers and High-performance Computing (2021-2026) & (K Units)

Figure 24. Active Thermal Management Liquid Cooling Micropump Consumed in Consumer Electronics and Smart Terminals

Figure 25. Global Active Thermal Management Liquid Cooling Micropump Market: Consumer Electronics and Smart Terminals (2021-2026) & (K Units)

Figure 26. Active Thermal Management Liquid Cooling Micropump Consumed in Automotive Electronics and Robotics

Figure 27. Global Active Thermal Management Liquid Cooling Micropump Market: Automotive Electronics and Robotics (2021-2026) & (K Units)

Figure 28. Active Thermal Management Liquid Cooling Micropump Consumed in Others

Figure 29. Global Active Thermal Management Liquid Cooling Micropump Market: Others (2021-2026) & (K Units)

Figure 30. Global Active Thermal Management Liquid Cooling Micropump Sale Market Share by Application (2025)

Figure 31. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Application in 2025

Figure 32. Active Thermal Management Liquid Cooling Micropump Sales by Company in 2025 (K Units)

Figure 33. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Company in 2025

Figure 34. Active Thermal Management Liquid Cooling Micropump Revenue by Company in 2025 (\$ millions)

Figure 35. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Company in 2025

Figure 36. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share by Geographic Region (2021-2026)

Figure 37. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Geographic Region in 2025

Figure 38. Americas Active Thermal Management Liquid Cooling Micropump Sales 2021-2026 (K Units)

Figure 39. Americas Active Thermal Management Liquid Cooling Micropump Revenue 2021-2026 (\$ millions)

Figure 40. APAC Active Thermal Management Liquid Cooling Micropump Sales 2021-2026 (K Units)

Figure 41. APAC Active Thermal Management Liquid Cooling Micropump Revenue 2021-2026 (\$ millions)

Figure 42. Europe Active Thermal Management Liquid Cooling Micropump Sales 2021-2026 (K Units)

Figure 43. Europe Active Thermal Management Liquid Cooling Micropump Revenue 2021-2026 (\$ millions)

Figure 44. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales 2021-2026 (K Units)

Figure 45. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Revenue 2021-2026 (\$ millions)

Figure 46. Americas Active Thermal Management Liquid Cooling Micropump Sales Market Share by Country in 2025

Figure 47. Americas Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Country (2021-2026)

Figure 48. Americas Active Thermal Management Liquid Cooling Micropump Sales Market Share by Type (2021-2026)

Figure 49. Americas Active Thermal Management Liquid Cooling Micropump Sales Market Share by Application (2021-2026)

Figure 50. United States Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 51. Canada Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 52. Mexico Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 53. Brazil Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 54. APAC Active Thermal Management Liquid Cooling Micropump Sales Market Share by Region in 2025

Figure 55. APAC Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Region (2021-2026)

Figure 56. APAC Active Thermal Management Liquid Cooling Micropump Sales Market Share by Type (2021-2026)

Figure 57. APAC Active Thermal Management Liquid Cooling Micropump Sales Market Share by Application (2021-2026)

Figure 58. China Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 59. Japan Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 60. South Korea Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 61. Southeast Asia Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 62. India Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 63. Australia Active Thermal Management Liquid Cooling Micropump Revenue

Growth 2021-2026 (\$ millions)

Figure 64. China Taiwan Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 65. Europe Active Thermal Management Liquid Cooling Micropump Sales Market Share by Country in 2025

Figure 66. Europe Active Thermal Management Liquid Cooling Micropump Revenue Market Share by Country (2021-2026)

Figure 67. Europe Active Thermal Management Liquid Cooling Micropump Sales Market Share by Type (2021-2026)

Figure 68. Europe Active Thermal Management Liquid Cooling Micropump Sales Market Share by Application (2021-2026)

Figure 69. Germany Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 70. France Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 71. UK Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 72. Italy Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 73. Russia Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 74. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales Market Share by Country (2021-2026)

Figure 75. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales Market Share by Type (2021-2026)

Figure 76. Middle East & Africa Active Thermal Management Liquid Cooling Micropump Sales Market Share by Application (2021-2026)

Figure 77. Egypt Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 78. South Africa Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 79. Israel Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 80. Turkey Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 81. GCC Countries Active Thermal Management Liquid Cooling Micropump Revenue Growth 2021-2026 (\$ millions)

Figure 82. Manufacturing Cost Structure Analysis of Active Thermal Management Liquid Cooling Micropump in 2026

Figure 83. Manufacturing Process Analysis of Active Thermal Management Liquid Cooling Micropump

Figure 84. Industry Chain Structure of Active Thermal Management Liquid Cooling Micropump

Figure 85. Channels of Distribution

Figure 86. Global Active Thermal Management Liquid Cooling Micropump Sales Market Forecast by Region (2027-2032)

Figure 87. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share Forecast by Region (2027-2032)

Figure 88. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share Forecast by Type (2027-2032)

Figure 89. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share Forecast by Type (2027-2032)

Figure 90. Global Active Thermal Management Liquid Cooling Micropump Sales Market Share Forecast by Application (2027-2032)

Figure 91. Global Active Thermal Management Liquid Cooling Micropump Revenue Market Share Forecast by Application (2027-2032)

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