

Global Active Liquid Cooling Micro Pump Market Growth 2026-2032

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Abstracts

The global Active Liquid Cooling Micro Pump 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 Liquid Cooling Micro Pump 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 Liquid Cooling Micro Pumps 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 Liquid Cooling Micro Pump 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 Liquid Cooling Micro Pumps 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 Liquid Cooling Micro Pumps from standalone components toward customized thermal management modules.

United States market for Active Liquid Cooling Micro Pump 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 Liquid Cooling Micro Pump 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 Liquid Cooling Micro Pump 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 Liquid Cooling Micro Pump 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 Liquid Cooling Micro Pump Industry Forecast" looks at past sales and reviews total world Active Liquid Cooling Micro Pump sales in 2025, providing a comprehensive analysis by region and market sector of projected Active Liquid Cooling Micro Pump sales for 2026 through 2032. With Active Liquid Cooling Micro Pump sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Active Liquid Cooling Micro Pump industry.

This Insight Report provides a comprehensive analysis of the global Active Liquid Cooling Micro Pump 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 Liquid Cooling Micro Pump portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Active Liquid Cooling Micro Pump

market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Active Liquid Cooling Micro Pump 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 Liquid Cooling Micro Pump.

This report presents a comprehensive overview, market shares, and growth opportunities of Active Liquid Cooling Micro Pump 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 Liquid Cooling Micro Pump market?

What factors are driving Active Liquid Cooling Micro Pump market growth, globally and by region?

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

How do Active Liquid Cooling Micro Pump market opportunities vary by end market size?

How does Active Liquid Cooling Micro Pump break out by Type, by Application?

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