

Global Active Liquid Cooling Micropump Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Active Liquid Cooling Micropump 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).

Active 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 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 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 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 Liquid Cooling Micropumps from standalone components toward customized thermal management modules.

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

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

Highlights and key features of the study

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

Global Active Liquid Cooling Micropump total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Active Liquid Cooling Micropump 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 Active Liquid Cooling Micropump 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 Active Liquid Cooling Micropump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Active Liquid Cooling Micropump Market, Segmentation by Type:

Piezoelectric Micro Liquid Cooling Pumps

Motor-driven Micro Liquid Cooling Pumps

Other Micro Liquid Cooling Pumps

Global Active Liquid Cooling Micropump 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 Active Liquid Cooling Micropump 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 Active Liquid Cooling Micropump market?
2. What is the demand of the global Active Liquid Cooling Micropump market?
3. What is the year over year growth of the global Active Liquid Cooling Micropump market?
4. What is the production and production value of the global Active Liquid Cooling Micropump market?
5. Who are the key producers in the global Active Liquid Cooling Micropump market?
6. What are the growth factors driving the market demand?

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