

Data Center Liquid Cooling - Company Evaluation Report, 2025

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Abstracts

The Data Center Cooling Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Data Center Cooling. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 100 companies, of which the Top 23 Data Center Cooling Companies were categorized and recognized as quadrant leaders.

Data center liquid cooling is a method that employs liquids—such as water or refrigerants—instead of air to cool servers within data centers. This technique brings the cooling medium closer to the heat source, reducing the need for fan power and lowering operational expenses. Because liquids conduct heat over 3,000 times more efficiently than air, liquid cooling addresses the challenges of high-density server environments with greater energy efficiency, allowing for increased data center density.

Implementation methods include transferring heat through inductive techniques like cold plates or using immersion cooling, where heat is removed directly from the surfaces of electronic components.

Emerging technologies such as artificial intelligence (AI), the Internet of Things (IoT), and machine learning (ML) demand higher computing power for optimal performance. As computing power grows, so does the heat output and rack density in data centers. Liquid cooling solutions in data centers play a vital role in maintaining optimal temperatures and effectively dissipating the significant heat generated by high-performance equipment.

The 360 Quadrant maps the Data Center Cooling companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for

the market presence of the Data Center Cooling quadrant. The top criteria for product footprint evaluation included By SOLUTION (Air Conditioning, Chilling Units, Cooling Towers, Economizer Systems, Liquid Cooling Systems, Control Systems, Other Solutions), By SERVICES (Consulting, Installation & Deployment, Maintenance & Support), By DATA CENTER TYPE (Mid-Sized Data Centers, Enterprise Data Centers, Large Data Centers), By TYPE OF COOLING (Room-Based Cooling, Row/Rack-Based Cooling), and By END-USE INDUSTRY (BFSI, It & Telecom, Research & Academic, Government & Defense, Retail, Energy, Manufacturing, Healthcare, Other End-Use Industries).

Key Players

Key players in the Data Center Cooling market include major global corporations and specialized innovators such as Vertiv Group Corp., Fujitsu, Stulz Gmbh, Black Box, Green Revolution Cooling Inc., Submer, Asperitas, Midas Immersion Cooling, Iceotope Technologies Limited, Dug Technology, Dcx Liquid Cooling Systems, Rittal Gmbh & Co. Kg, Schneider Electric, Munters, Asetek, Inc., Alfa Laval, Coolcentric, Airedale International Air Conditioning, Ltd., Nortek Air Solutions, Llc., Johnson Controls, Daikin Industries, Ltd., Mitsubishi Electric Corporation, and Hitachi Energy Ltd.. These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

Top 3 Companies

Vertiv Group Corp.

Vertiv Group Corp. excels in the data center liquid cooling market through its comprehensive range of products, including data center racks, power distribution units, cooling systems, and monitoring solutions. The company leverages its vast distribution channels and robust product portfolio to maintain a competitive edge. Vertiv's strategic acquisitions, such as integrating BiXin Energy Technology assets, have enhanced its capabilities to meet the thermal management demands of high-performance computing.

Schneider Electric

Schneider Electric is a prominent player specializing in advanced liquid cooling technologies. It offers a wide array of cooling systems aimed at high-density data centers, emphasizing CPU and GPU cooling efficiencies. The company's expansion

through strategic acquisitions, such as that of Motivair Corporation, bolsters its market share and enhances its product offerings. Schneider Electric's strong market presence is complemented by its focus on sustainable and scalable cooling solutions.

COOLIT SYSTEMS

COOLIT SYSTEMS focuses on delivering high-performance cooling solutions through its modular, rack-based direct contact liquid cooling (DCLC) platform. The company is recognized for its innovation in cooling technology, offering solutions that enhance computing performance while improving energy efficiency. Through strategic partnerships and agreements, COOLIT SYSTEMS continues to expand its market share and diversify its product portfolio, meeting the growing demands for efficient and scalable cooling in data centers.

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