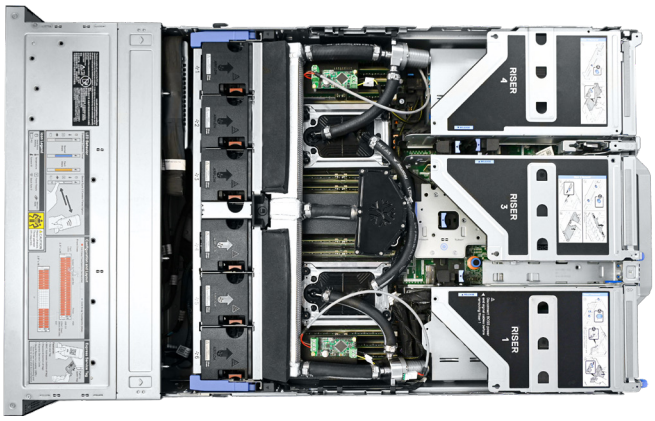
DELL Technologies

Solution overview

Revolutionizing Data Center Cooling: JetCool's Innovative Solution

In the rapidly evolving world of data centers, traditional air-cooling methods are struggling to keep up with the increasing power demands driven by the adoption of artificial intelligence (AI) and other high-performance computing applications. As power levels in data centers continue to rise, the need for more efficient cooling solutions has become critical. Enter JetCool, a Flex company, delivering next-generation liquid cooling solutions that are transforming the data center landscape.



JetCool's SmartPlate™ System for the Dell PowerEdge R760 Server.

Market Needs

The surge in AI applications, powered predominantly by graphics processing units, has significantly increased the power consumption in data centers. GPUs, known for their high performance, are also notorious for their substantial power requirements. This has created a pressing need for more effective cooling solutions that can handle the heat generated by these power-hungry devices. Industries such as finance, high-frequency trading, and federal applications, which are heavily reliant on compute-intensive operations, are particularly affected by these challenges. These sectors require cooling solutions that not only manage the heat but also reduce overall IT power consumption.

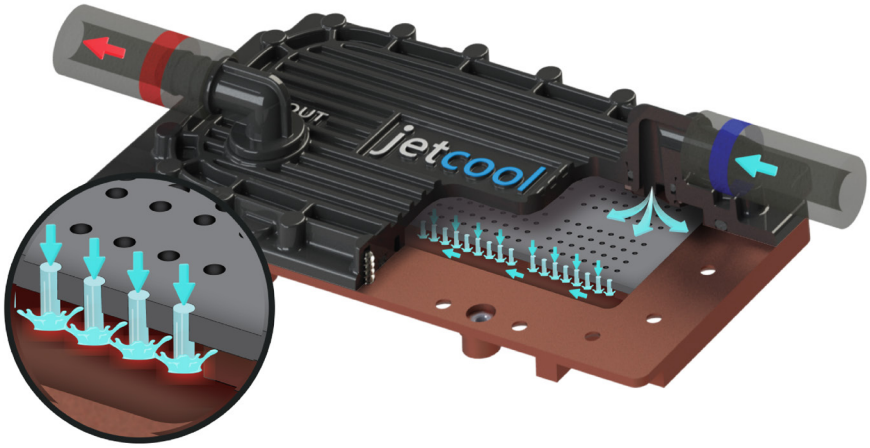
jetcool
A Flex Company

The JetCool Solution

JetCool's innovative liquid cooling solution stands out in the market for its efficiency and ease of integration. Unlike traditional cooling methods, JetCool's system is entirely self-contained within the server. This means that it can be seamlessly integrated into any existing air-cooled data center without the need for extensive facility upgrades. The ability to drop liquid cooling into current infrastructures without significant modifications is a game-changer for many organizations.

JetCool's technology has shown remarkable results, particularly in power-constrained environments. By implementing JetCool's liquid cooling solutions, companies have reported a 15% reduction in overall IT power consumption. This not only addresses the cooling needs but also contributes to significant energy savings, making it an attractive option for industries looking to optimize their operations.

JetCool's Microconvective Cooling Architecture



Partnership with Dell Technologies

JetCool's partnership with Dell Technologies has further strengthened its position in the market. Together, they are bringing advanced products to market at any scale, anywhere on the planet. Dell's OEM Solutions Team, known for their tech-forward approach and best-in-class servers, storage, and networking, complement JetCool's innovative cooling technology. This collaboration leverages Dell's world-class supply chain and delivery capabilities, enabling companies to bring their intellectual property to market efficiently.

Expected Outcomes

The adoption of JetCool's liquid cooling technology is expected to have far-reaching impacts on the data center industry. By addressing the cooling challenges posed by high-performance computing and AI applications, JetCool is enabling these technologies to continue advancing without consuming excessive amounts of electricity. This aligns with the broader goal of promoting sustainable and energy-efficient solutions in the tech industry.