

HALO Next Generation Datacenter

Overview

HALO's Next Generation Datacenter represents a significant leap forward in data storage and processing capabilities.

Central to this evolution is Direct Liquid Cooling (DLC) technology, which revolutionizes how servers manage heat generation. DLC involves the direct circulation of liquid coolant through server components, efficiently dissipating heat and minimizing energy consumption.

By adopting DLC, HALO's Next Generation Datacenters can achieve unparalleled levels of energy efficiency and cooling effectiveness. This technology enables higher density server configurations, reducing the physical footprint required for data storage and processing.

Optimizing Performance

By adopting Direct Liquid Cooling (DLC), HALO ensures optimal performance and longevity of server hardware by maintaining consistently lower operating temperatures.

This adoption heralds a new era of efficiency and sustainability in data management. With its ability to mitigate heat-related challenges and enhance server performance, our adoption of DLC emerges as a cornerstone technology in the ongoing evolution of datacenter infrastructure.

Is DLC the Choice for You?

Next Generation Datacenters with Direct Liquid Cooling cater to organizations with high-performance computing needs, including large-scale enterprises, research institutions, and cloud service providers.



HALO's DLC is benefits organizations prioritizing energy efficiency, space optimization, and reliable cooling solutions in their data infrastructure. It easily and efficiently handles the demands of industries requiring intensive computational tasks, such as artificial intelligence, scientific research, and financial analytics.

HALO's DLC solutions helps you reduce your environmental impact through sustainable and efficient data management solutions.

Features

Direct Liquid Cooling

Efficiently dissipate heat by circulating liquid coolant directly through server components.

Enhanced Energy Efficiency

Reduce power consumption by maintaining lower operating temperatures, resulting in significant energy savings.

High Density Configurations

Enable compact server layouts, optimizing space utilization within your datacenter environments.

Improved Server Performance

Ensure consistent and reliable performance while maintaining optimal operating temperatures.

Scalability

Facilitate easy expansion and scaling of your datacenter infrastructure to accommodate growing computational demands.

Where **Innovation**
meets **Infrastructure**
and **Productivity**
meets **Progress**



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Benefits

Energy Savings

DLC reduces energy consumption, efficiently dissipating heat and lowering costs.

Increased Performance

Maintain optimal operating temperatures, enhancing server performance and reliability.

Space Optimization

Minimize high-density configurations to maximize your datacenter space utilization.

Environmental Impact

Reduce your carbon footprint by using less energy and promoting sustainable data management practices.

Scalability and Flexibility

Support easy expansion and scaling of your datacenter infrastructure to meet evolving computational needs.

How HALO Helps You

Consulting Services

HALO delivers expert guidance on implementing Next Generation Datacenters with Direct Liquid Cooling, tailored to your specific business requirements.

Technology Recommendations

Our experts offer you cutting-edge hardware and software solutions to optimize datacenter performance and efficiency.

Implementation Support

We assist you with setup and integration of Direct Liquid Cooling systems into new datacenters or your existing datacenter infrastructure.

Training and Education

We provide basic and advanced training programs to equip IT teams with the necessary skills to manage and maintain Next Generation Datacenters effectively.

Continuous Support

HALO can provide ongoing technical support and troubleshooting assistance to ensure smooth operation and maximize the benefits of your new datacenter technology.

Standards and Best Practices

Green Grid - Power Usage Effectiveness (PUE)

Green Grid's Power Usage Effectiveness (PUE™) has become the industry-preferred metric for measuring infrastructure energy efficiency for data centers. Since its original publication in 2007, PUE has been globally adopted by the industry.

ANSI / ASHRAE Guidelines

ANSI/ASHRAE Standard 90.4-2019, Energy Standard for Data Centers, establishes the minimum energy-efficiency requirements for the design and operation of data centers, and contains specific requirements for mechanical and electrical systems installed in new or upgraded datacenters.

Uptime Institute Tier Standard

Uptime Institute created the datacenter Tier classification levels, with Tier classifications ranging from Tier I to Tier IV, based on redundancy and fault tolerance.

BICSI Data Center Design and Operations

ANSI/BICSI 002-2019, Data Center Design and Implementation Best Practices, and BICSI 009-2019, Data Center Operations and Maintenance Best Practices include the development and maintenance of standards related to the design, implementation, assessment and operations of data centers.

TIA-942 Telecommunications Infrastructure Standard for Data Centers

The TIA-942 Certification Program enables data centers to be reviewed and certified for conformity to the requirements of the globally-recognized ANSI/TIA-942 standard, providing greater assurance to customers and stakeholders.

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