

SERV PAC Launches Hawaii's Only Tier IV Data Center

Discover how strategic collaboration and advanced VRF cooling technology achieved Hawaii's only Tier IV data center certification.



Quick Facts

Location: Mililani, HI

Industry: Data Center

Products: Trane® / Mitsubishi Electric VRF Systems

Topics: Resiliency | Sustainability | Energy Efficiency

Services: Sustainable System | Innovation

Results

99.995%

Uptime Guarantee (Tier IV Certification)

850 ft

Above Sea Level Provides Natural Protection

Ongoing

Collaboration With Phase 2 Expansion Underway



Highlights

- Hawaii's only data center to receive Tier IV certification.
- Advanced long-term sustainability commitment while lowering operating costs.
- Doubled colocation capacity to meet growing demand for local cloud services.

Challenge

As a locally owned company, SERV PAC is deeply committed to supporting Hawaii businesses and advancing the islands' digital infrastructure. However, Hawaii's data center landscape hadn't seen major investment in 20 years, leaving local organizations dependent on aging systems vulnerable to the islands' unique threats. In their mission to create Hawaii's most reliable data center, SERV PAC faced multiple obstacles.

The remote island location created complex logistics for specialized equipment delivery and installation and the facility needed robust protection against hurricanes, tsunamis, and sea-level rise. Meeting the rigorous requirements for Tier IV certification, (the industry's highest standard) demanded fault-tolerant systems with complete redundancy where every component could be maintained without impacting operations. Additionally, Hawaii's warm climate and high energy costs required cooling solutions that could deliver reliability without excessive operational expenses. Achieving these goals demanded strategic planning to deliver advanced cooling technology and consultative expertise in this challenging environment.

Solution

SERVAPAC's vision required more than just standard equipment. It demanded true collaboration between all parties to navigate unique challenges and achieve operational excellence.

Collaboration Beyond Equipment

The project's success relied on the collective expertise and seamless collaboration of multiple teams, each playing a vital role in achieving Tier IV certification. SERVAPAC brought their vision and deep understanding of Hawaii's unique operational needs. [Insynergy Engineering](#) provided critical mechanical engineering design expertise. [Standard Sheet Metal](#) executed precise installation in challenging island conditions. Trane contributed consultative expertise and advanced VRF equipment tailored to the project's specific requirements.

This integrated approach ensured every system component was carefully coordinated and optimized from initial design through final implementation. Hawaii's first Tier IV certified data center stands as a testament to what can be achieved when dedicated teams work in true collaboration, with each team's expertise proving essential to the project's success.

Data Center Performance Excellence

Executing a Tier IV data center project in Hawaii's remote island environment demanded meticulous planning and flawless implementation.

Innovative Island Answers

The right solution centered on implementing [Trane® / Mitsubishi Electric VRF Systems](#) that are engineered specifically to meet the stringent requirements for Tier IV data center operations in Hawaii's challenging environment. This advanced equipment included Trane® / Mitsubishi Electric Y Series Air-Cooled Condensing Units (ACCUs), City Multi Fan Coil Units (FCUs), and TE-200A Central Controller with duplicate redundant systems throughout the facility, ensuring seamless operation even during maintenance or component failure.

Precision in Every Detail

Achieving the level of resiliency they wanted required fault-tolerant systems where every component must perform flawlessly under any circumstance. The proven reliability and quiet operation of Trane / Mitsubishi units were features that drove the success of this project.

Results

SERVAPAC's MTP Data Center achieved a historic milestone by becoming the first data center in Hawaii to receive the official [Uptime Institute Tier IV Certification of Constructed Facility Award](#), guaranteeing 99.995% uptime with a maximum of 26 minutes of downtime annually. This success extends beyond immediate operational gains, contributing to Hawaii's digital infrastructure resilience, enabling SERVAPAC to operate more sustainably while reducing operational costs. Building on the success of Phase 1, Trane Hawaii's ongoing collaboration spans multiple project phases. Most recently, Trane provided Trane® / Mitsubishi Electric equipment for a new building under construction in 2025, demonstrating the long-term value of this strategic collaboration in advancing Hawaii's technological capabilities.



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