

ScaleMatrix Expands DDC-Enabled Data Center Footprint from Coast to Coast

Client

ScaleMatrix



The Challenge

As demand for high-density computing and AI-ready infrastructure surged, ScaleMatrix needed a cooling solution that could support extreme rack densities while maintaining energy efficiency and operational flexibility. Their goal was to future-proof their facilities and deliver a consistent, high-performance colocation experience across multiple U.S. regions.



The Solution

ScaleMatrix was the original creator of the DDC (Dynamic Density Control) technology and the first to deploy it commercially. Their San Diego facility became the proving ground for what would evolve into the S-Series Cooling Platform—a cabinet-based, high-efficiency cooling solution designed to support extreme rack densities and mission-critical workloads.

As the longest-standing user of DDC Solutions products, ScaleMatrix has played a pivotal role in shaping the evolution of the S-Series. Since that initial deployment, the platform has continued to advance in capability, flexibility, and scale. By 2025, DDC Solutions has deployed over 1,500 S-Series cabinets across a growing number of data centers nationwide.

Building on the success in San Diego, ScaleMatrix partnered with TierPoint to bring DDC-enabled infrastructure to the East Coast, launching a second high-density, future-ready data center in North Carolina. This expansion marked a significant milestone in delivering scalable, AI-ready infrastructure to a broader market.



The Results

- High-Density Support: Enabled rack densities of 50kW+ without the need for raised floors or traditional CRAC/CRAH systems.
- Scalable Deployment: Rapid rollout of DDC cabinets across multiple sites, ensuring consistent performance and design.
- Energy Efficiency: Reduced cooling energy consumption through targeted, in-cabinet airflow management.
- Future-Proof Infrastructure: Positioned ScaleMatrix to meet the growing demands of AI, machine learning, and GPU-intensive workloads.



Looking Ahead

With DDC's S-Series platform at the core of its infrastructure strategy, ScaleMatrix continues to lead the way in delivering high-performance, sustainable colocation services. The partnership with TierPoint opens the door for further expansion, bringing next-generation cooling to more regions across the U.S.

