FUTURE PROOF YOUR DATACENTER *WITH* DDC S-SERIES

ANY HARDWARE. ANY DENSITY. ANYWHERE.

Award-winning DDC cabinet technology enables the deployment of HPC and AI infrastructure at the industry's highest density without compromising performance, efficiency, or reliability.

85 KW
AIR-COOLED DENSITY

75%
REDUCED DEPLOYMENT TIME

40%
BUILD/RETROFIT CAPEX SAVINGS

INDUSTRY FACT

Large corporations are finding it increasingly difficult to find enough datacenter capacity. Low supply, construction delays, and power challenges are impacting all markets.[1]

—*Global Datacenter Trends, CBRE*

BY THE NUMBERS

DDC S-Series delivers:

- 85-kilowatt liquid/air-cooled density
- 75% reduced deployment time
- 40% build/retrofit CapEx savings
- Industry-leading PUE delivering energy OpEx savings
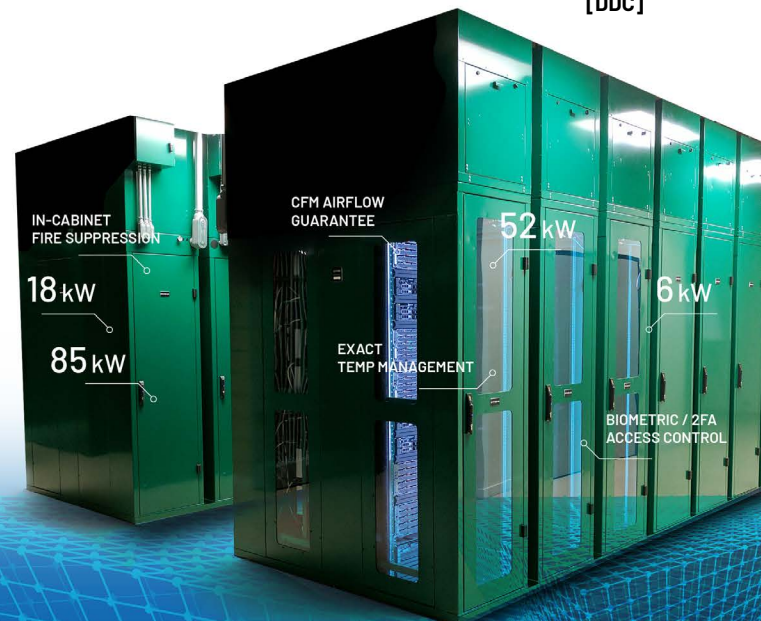- No makeup water required

Challenge

Datacenter demand is surging as AI and big data analytics drive unprecedented increases in high-performance computing workloads. The time to upgrade, retrofit, or build your datacenter is now. But there are space limitations, resource sustainability concerns, and an increasing need for efficiency. *How can companies meet capacity and density needs without sacrificing performance?* By taking advantage of innovations in Datacenter design and technology.

Solution Overview

The Scalable S-Series Datacenter Cabinet Platform from DDC Cabinet Technology (DDC) features the highest-density liquid/air-cooled system in the world. The closed-loop, modular design allows your company to scale your deployment, adding capacity as demand grows and reducing capital expenditure costs. DDC combines the efficiency of water cooling with the risk-free flexibility of air. Patented DDC technology adjusts airflow and water flow in real time based on equipment loads, delivering better hardware performance, fewer component failures, and unbeatable future-proofing. In addition to the efficiencies of liquid performance, the S-Series also features fire suppression, security, monitoring, and efficiency tools.

DYNAMIC DENSITY CONTROL™ [DDC]

IN-CABINET FIRE SUPPRESSION
18 kW
85 kW
CFM AIRFLOW GUARANTEE
52 kW
EXACT TEMP MANAGEMENT
6 kW
BIOMETRIC / 2FA ACCESS CONTROL

1. https://www.cbre.com/insights/reports/global-data-center-trends-2023

BETTER *THAN* LIQUID
WITH VELOCITY AUGMENTATION BY DDC

"DDC allowed Tierpoint to deliver the **highest density infrastructure** with the lowest cost to build."
—Tierpoint

Business Value

DDC's Scalable S-Series is the ideal solution for building new datacenter capacity and for modernization or retrofit projects, delivering the following benefits:

- **Manage DYNAMIC DENSITIES** with DDC by supporting mixed hardware and density deployments seamlessly in any cabinet while future-proofing for higher densities down the road without compromising efficiency, sustainability, or reliability.

- **SCALE your enterprise Datacenter operations** as demand grows, cooling only what's needed. The modular DDC design enables cost-effective capital outlay, with *an average of 40% lower cost per megawatt to build.*

- **UPGRADE your Datacenter** at every level. Improve power efficiency, increase density supporting up to 85kW per cabinet, and eliminate water waste with DDC's closed-loop cooling design.

- **BOOST HARDWARE PERFORMANCE** with DDC technology that senses thermal changes at the rack level and adjusts cooling to maintain optimal processing capabilities while avoiding the design challenges of raised floors, liquid cooling, or hot/cold row containment.

- **Maintain PRECISION environmental control** with less than 2-degree temperature variation from top to bottom of rack, dust and debris protection within the enclosed cabinet, and individual fire suppression to ensure the safety of your critical infrastructure.

AI ANYWHERE™

How it Works

The DDC Scalable S-Series cabinets combine the flexibility and reduced risks of air cooling with the efficiency and thermal density of pure liquid cooling without all the hassle.

- **Modularity:** DDC's modular design enables scalable implementation—cooling only what's in the cabinet instead of the entire facility. Modularity also allows you to match build-out timelines to IT and budget demands. You can connect to an existing building management system or use it as a stand-alone system to match resource demand with supply, creating a zero-waste environment.

- **Scalability:** Scalable density means you can move from 1kW to 85kW seamlessly and automatically, ensuring your business is future-proofed. You only need space and power to deploy the S-Series in your datacenter, lab environment, warehouse, hospital, or other location without worrying about noise or heat.

- **Efficiency:** For managing your datacenter, DDC's single pane of glass DCIM, provides granular control plus real-time and historical performance data. DDC provides turnkey datacenter solutions complete with cabinets, chillers, and water systems. The platform uses this data to ensure your deployed infrastructure's most efficient management automatically.

- **Dependability:** DDC's proven system is engineered to provide years of trouble-free operations. Unlike open-air, DDC cabinets give each rack customized cooling, targeting and eliminating datacenter hot spots. With only five moving parts, DDC reduces maintenance efforts and helps ensure best-in-class uptime.

- **Velocity Augmentation:** An innovative liquid heat exchange within each cabinet removes heat and improves thermal density. The patented dual-fan design delivers airflow velocity augmentation, helping remove heat from high-density workloads, in many cases, and eliminating the need for additional liquid cooling at the hardware level.

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DDC™ SOLUTIONS