



SCALABLE, EFFICIENT & RELIABLE

Silent-Aire's Coolant Distribution Units (CDUs) provide an impressive 1050kW cooling capacity (using 25% Propylene Glycol) with a 9.4°F (5.2°C) approach temperature, delivering an efficient and precise cooling solution. Our CDU is a versatile alternative to traditional air conditioning systems, specifically designed to meet the high-performance demands of our mission-critical customers. By enabling placement near the equipment that requires cooling (such as in a rack row), it conserves energy by eliminating the need to circulate coolant over a large area. This optimization of power consumption and enhancement of system reliability contribute to significant long-term operating expense reductions.

1 MW NORTH AMERICA SPECIFICATION

Dimensions (H x W x D)	84" x 35" x 48"
Weight (lbs)	2935 (2180 shipped)
Power Supply	480V/3Ph/60Hz
Power Draw at 480V/3/60	21 kW
Cooling Capacity	1050 kW with ATD 9.4°F
Primary Coolant	Propylene Glycol 25%
Secondary Coolant	Propylene Glycol 25%
Primary Side Total Flow rate	327 usgpm
Secondary Side Total Flow rate	417 usgpm
Max Secondary Total Flow rate	480 usgpm
Primary Side (FW) Pressure Drop	13 PSI
Secondary Side Pressure Drop	30 PSI
Secondary Side Filtration	25 Micron



GLYCOL DESIGN

Capacity	1050 kW at 9.4°F (5.2°C) approach
Primary Glycol side	327 gpm of 25% PG at 13 psi PD
Secondary Coolant side	417 gpm of 25% PG at 30 psi supply

WATER DESIGN

Capacity	1400 kW at 6.3°F (3.5°C) approach
Primary Water side	420 gpm of water at 20 psi PD
Secondary Coolant side	420 gpm of water at 32 psi supply

Silent-Aire and Johnson Controls combine decades of expertise in thermal management, controls engineering, and advanced manufacturing to meet the evolving demands of today's global data center landscape. Together, we are positioned to be the design and manufacturing partner of choice, delivering scalable, high-performance solutions- such as our Coolant Distribution Unit (CDU) platform- that reflect our commitment to innovation, reliability, and global reach.

Engineering & Design

- Modular configurations
- Smart controls for optimization
- Customization to hyperscale and co-location

Scalable Options

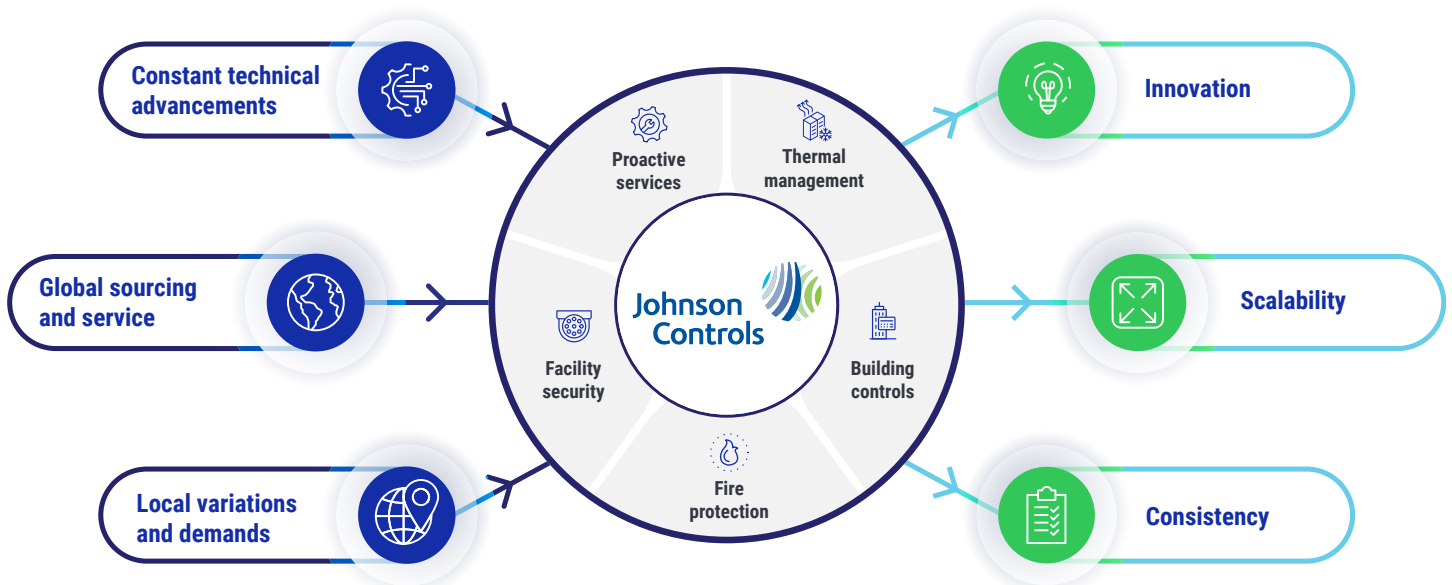
- In Row Deployment from 500kW to 1050kW
- CDU scalable from 1050 kW to 10MW

Manufacturing & Scale

With over 1.8 million square feet of production floorspace worldwide, Silent-Aire and Johnson Controls deliver manufacturing capacity and quality systems that exceed industry standards for CDU production. Our resilient global supply chain, robust compliance infrastructure, and ability to scale rapidly give us a distinct competitive edge- especially as demand for liquid cooling solutions accelerates across the data center landscape.

Johnson Controls Thermal Management Ecosystem

Silent-Aire's Coolant Distribution Unit (CDU) solutions are backed by the full strength of the Johnson Controls Thermal Management Ecosystem, integrating cutting-edge technologies and deep expertise from industry-leading brands such as YORK® and M&M Carnot®. This powerful ecosystem enables continuous technical advancement, delivering reliable, scalable, and energy-efficient cooling solutions tailored to the evolving needs of global data centers.



York® provides high-efficiency chillers and HVAC systems for mission-critical environments. Silent-Aire's CDU solutions are designed to integrate seamlessly with York® advanced cooling technologies, ensuring compatibility with facility-wide thermal infrastructure.



M&M CARNOT

M&M Carnot® specializes in refrigerant systems and ultra-low temperature solutions that will support future CDU deployments.