

Let's level up liquid cooling

Our solutions and expertise for your CDUs

At the heart of modern liquid-cooled data centers sit Coolant Distribution Units (CDUs)—and a substantial potential for optimization in efficiency, control, footprint and integration.

With Danfoss, you get modular solutions and co-development opportunities for almost the entire CDU ecosystem. We are not selling parts. We help you build better CDUs. Let's level up liquid cooling, together.



Welcome to your curated CDU hardware store

From heat exchangers over valves, drives, and sensors to controllers – with Danfoss, you get almost every component to build an efficient, reliable CDU.

Discover a selection of our products here, and find the full portfolio at datacenters.danfoss.com

As global HVAC leaders, we are reknowned for our advanced technologies, quality and strong supply chain. Whatever you need to ensure optimum thermal management in your liquid-cooled data centers, we have you covered.



Temperature and pressure sensors



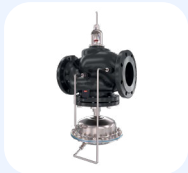
Strainers and shut-off valves



Controllers and software



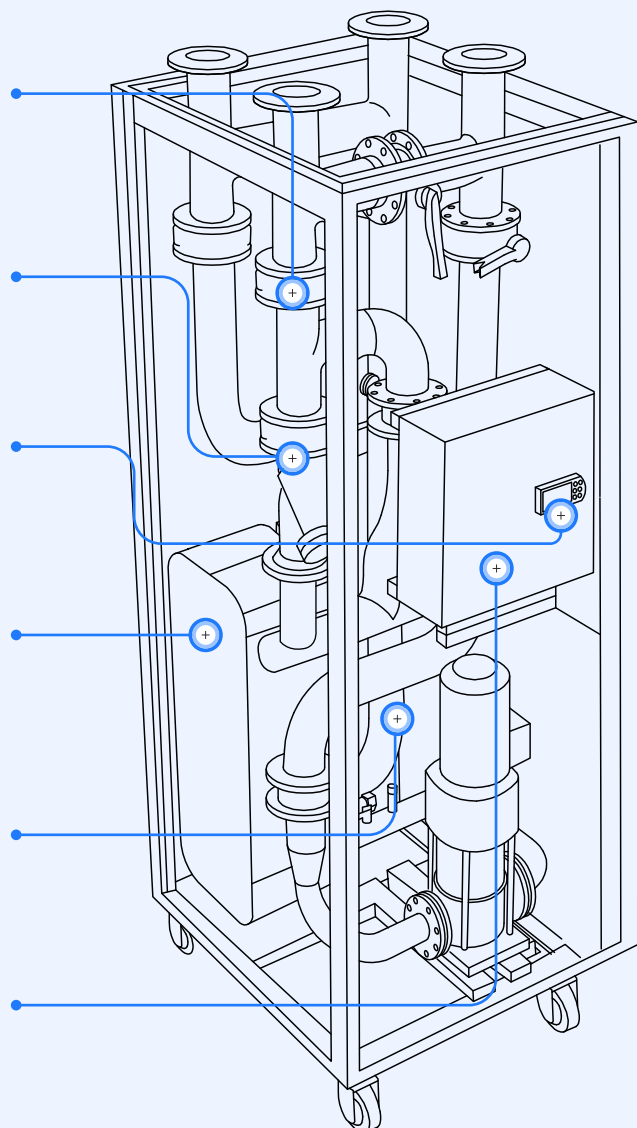
Brazed plate heat exchangers



Pressure independent control valves and actuators



Variable frequency drives





DIGITAL EXPERIENCE
Click/tab the QR codes to learn more about the products



Alsmart® for fast, reliable, and customizable control

Alsmart® gives you a programmable and highly secure HVAC controller platform. With best-in-class hardware, intuitive programming, and remote monitoring, you get an intelligent, compact and powerful brain for your CDU.



Discover Alsmart



Get eBook:
Master your HVAC symphony



Heat exchangers for superior thermal management

Brazed and gasketed heat exchangers provide efficient, tailored solutions for data center applications.



Brazed plate heat exchangers
Optimized for efficient performance in liquid-to-liquid applications. Our CDU optimized portfolio offers approach temperatures of 2°C to 4°C with capacities up to 1.3 MW in a single unit.



Gasketed plate heat exchangers
Diverse range of close approach optimized heat exchangers, engineered to meet the needs of future 2+MW CDUs or deconstructed CDU skid builds, ensuring tailored solutions for your specific requirements.

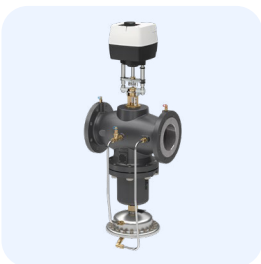


Strainers and shut-off valves for reliable unit operation and serviceability



VFY Strainers
Protect CDU components by preventing particles from being transported and enable the use of draining ball valves to remove them.

VFY-LH butterfly valves
Enable simple temporary flow stops for service or maintenance.



Pressure independent valves for high-accuracy flow control and hydronic independence

Get maximum flow control accuracy and hydronic independence between CDU units with pressure independent valves with 100% authority.

AB-QM with NovoCon®
Balance and control hydronic flows and enable data collection with digital actuators with bus-communication.

AFQM 2 with AME 659SD
Balance and control hydronic flows with modulating gear actuators with TÜV certified Spring Down safety function.



AB-QM



NovoCon®



AFQM 2



AME 659SD



DIGITAL EXPERIENCE
Click/tab the QR codes to learn more about the products



Sensors for reliable operation

DST P110 and DST P140

High-quality pressure sensors for liquid cooling system water cycles. DST P110 ensures superior accuracy for precision cooling, DST P140 brings advanced oil-filled MEMS technology to provide high overload and burst capabilities.



DST P110



DST P140



MBT 3270

Meet highest accuracy standards with temperature sensors for reliable and customized condition monitoring.



MBT 3560

For use in Data Center mission critical applications where reliable, robust and accurate equipment is required.



Variable frequency drives for maximum efficiency and uptime



iC7 series

Meet the most energy-efficient variable frequency drive solution on the market. iC7 drives give you built-in functionalities, such as Automatic Energy Optimization, ensuring optimal pump efficiency and reducing energy consumption and costs.



Harmonic mitigation for cutting the risk of downtime

Harmonic distortion equals downtime. With Danfoss, you get a comprehensive range of harmonic mitigation solutions, including ultra low-harmonic (ULH) drives, active front-end (AFE) drives, and passive filters, to safeguard systems from harmonic-related failures.

In data centers, uptime is paramount. With Danfoss' condition-based monitoring solutions, you can proactively detect potential issues like motor stator winding deterioration, pump load, and cavitation to enhance predictive maintenance and minimize downtime.

Go with the smart flow

– go with ready-built valve trains to connect your CDU to server racks



Smart, customizable valve trains for efficient liquid cooling

With Danfoss CoolTrain™ you get a plug-n-play solution all the way from your CDU to the racks and back. Made of corrosion-resistant material and field-proven in glycol systems up to 40%, these valve trains balance and control hydronic liquid cooling system flows.

Danfoss CoolTrain™ is delivered pre-assembled in any configuration, quality tested, and meticulously cleaned before being PG25 filled and sealed.



Explore our solutions
datacenters.danfoss.com



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