Press release

Alfa Laval introduces CB450, its largest copper-brazed plate heat exchanger

The new Alfa Laval brazed plate heat exchanger CB450 delivers liquid-to-liquid cooling of up to 2.5 MW of capacity in a compact format. It has been developed for data centers, industrial heat pumps and district heating applications.

Lund, Sweden, 17. November 2026

High capacity in a compact format
Developed in response to market demand for a high-capacity copper-brazed plate heat exchanger, the Alfa Laval CB450 delivers up to 2.5 MW and enables high-capacity systems to use fewer heat exchangers. This can reduce system size and weight, simplify layouts and assembly, and lower production costs.

The CB450's design flexibility meets a wide range of application requirements and can be optimized to deliver reliable performance across various operating conditions. It will be available with AHRI certification for liquid-to-liquid cooling.

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Designed for data center cooling

The growing cooling requirements of AI data centers are accelerating the development of compact, high-capacity liquid-cooling systems in which the CB450 can be used in coolant distribution units (CDU), central coolant distribution units (CCDU) and free cooling chillers.

"With every new generation of AI chips, data center cooling systems must handle significantly more heat. The challenge is to remove that heat without allowing the cooling systems to take up too much space, since every square meter in a data center is extremely valuable," says Filippo Bragantini, Global Product & Application Expert, Data Center.

"The Alfa Laval CB450 offers new possibilities to design coolant distribution units, larger central coolant distribution units and free cooling chillers that combine high capacity with a compact footprint, while minimizing the number of components and overall system complexity," he says.

Supporting industrial heat pumps, district heating and organic Rankine cycle systems

The CB450 is also targeting applications beyond data center cooling. In industrial heat pumps, it is well suited as a condenser in systems delivering 1–2 MW of heat at output temperatures of 100–200 °C using hydrocarbon or HFO refrigerants. Its long thermal length supports high-temperature duties, including heat pumps used for steam generation. It will be a ready-for-use solution to match 2000 mc/h screw compressor developments that will enhance gas boiler replacement. Additional benefits include a small refrigerant charge and low pressure drop.

In larger district heating substations, the CB450 can be used at capacities of approximately 2–5 MW. Its long thermal length supports efficient heat transfer at lower primary temperatures.

In organic Rankine cycle (ORC) systems, the CB450 is designed to handle the large water flows commonly required by the process.

To learn more about Alfa Laval CB450, please visit: https://www.alfalaval.com/CB450/

For further information, please contact:

Richard Torssell, Product Manager, BU Brazed and Fusion Bonded Heat Exchangers
richard.torssell@alfalaval.com

Henrik Nasvall, Global Business Developer Data Center
Henrik.nasvall@alfalaval.com

Filippo Bragantini, Global Product & Application Expert, Data center
Filippo.bragantini@alfalaval.com

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Alfa Laval CB450 heat exchanger

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This is Alfa Laval
Working closely with customers and partners worldwide, Alfa Laval challenges conventional thinking on engineering, quality, and innovation. Together driving the solutions of the future, inspiring progress towards a more resourceful, less wasteful world.

Alfa Laval is set on creating positive impact in areas that society depends on, including energy, food, water, medicine, maritime transport and offshore operations. As a leading global provider of solutions in heat transfer, separation, and fluid handling, the company collaborates closely with many industries to optimize efficiency, reduce emissions and increase yields.

Alfa Laval was founded more than 140 years ago, has customers in over 100 countries, employs more than 23,500 people, and annual sales were 69.6 BSEK (6.6 BEUR) in 2025. The company is listed on Nasdaq Stockholm.

www.alfalaval.com

For further information, please contact:

Richard Torssell
Product Manager, BU Brazed and Fusion Bonded Heat Exchangers
E-mail: richard.torssell@alfalaval.com

Henrik Nasvall
Global Business Developer Data Center
E-mail: Henrik.nasvall@alfalaval.com

Filippo Bragantini
Global Product & Application Expert Data center
E-mail:
Filippo.bragantini@alfalaval.com

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