

# Press release

## Alfa Laval and Aalborg CSP launch header-and-coil heat exchanger for large-scale energy storage systems

**Alfa Laval Aalborg Header-Coil A/S, a joint venture between heat exchanger manufacturers Alfa Laval and Aalborg CSP, has launched its first product in energy storage. The header-and-coil heat exchanger is specifically designed for use in large-scale thermal energy storage systems, offering high thermal efficiency, a compact footprint, and high reliability under cyclic operating conditions.**

**Lund, Sweden, 1. July 2025**

### **Designed for cyclic operation**

The fully welded header-and-coil design features a unique serpentine tube configuration that provides a large heat transfer surface in a compact footprint. Combined with a tube-shaped header, the serpentine tubes provide flexibility to absorb thermal expansion during cyclic operation, ensuring reliable performance over time.

### Tailored for thermal energy storage

Header-and-coil heat exchangers also handle high temperatures and pressures, making them ideally suited for thermal energy storage systems with intermittent operation – for example molten salt-based systems.

“With the header-and-coil technology, we are introducing a solution that addresses the specific challenges of thermal energy storage,” says Alasdair MacIver, Head of Energy Storage at Alfa Laval. “The fluctuating nature of renewable energy sources like wind and solar often leads to fatigue issues in conventional heat exchangers. Our unique design overcomes this, offering high capacity, compact size, and unmatched reliability. We are convinced it will be a valuable asset for system builders developing next-generation sustainable energy infrastructure.”

### Available as complete systems

Header-and-coil heat exchangers can function as economizers, evaporators, superheaters, and reheaters. They are available either as individual components or as complete, fully customized steam generation systems, including all necessary heat exchangers, a steam drum, and piping. Based on natural circulation, these systems ensure stable operation with low OPEX and CAPEX.

To learn more about Alfa Laval Aalborg header-and-coil heat exchangers, please visit: [www.alfalaval.com/header-and-coil](http://www.alfalaval.com/header-and-coil)

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Alfa Laval header-and-coil heat exchanger

**This is Alfa Laval**

The ability to make the most of what we have is more important than ever. Together with our customers, we're innovating the industries that society depends on and creating lasting positive impact. We're set on helping billions of people to get the energy, food, and clean water they need. And, at the same time, we're decarbonizing the marine fleet that's the backbone of global trade.

We pioneer technologies and solutions that free our customers to unlock the true potential of resources. As our customers' businesses grow stronger, the goal of a truly sustainable world edges closer. The company is committed to optimizing processes, creating responsible growth, and driving progress to support customers in achieving their business goals and sustainability targets. Together, we're pioneering positive impact.

Alfa Laval was founded 140 years ago, has customers in 100 countries, employs more than 22,300 people, and annual sales were SEK 66.9 billion (5.8 BEUR) in 2024. The company is listed on Nasdaq Stockholm.

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