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Alfa Laval and SSAB will support marine decarbonization with the first plate heat exchanger made using fossil-free steel

To decarbonize the marine industry, changes are needed both on board and beyond. As part of reducing carbon footprint throughout the equipment supply chain, Alfa Laval and SSAB are targeting the first plate heat exchanger made using fossil-free steel.

Alfa Laval has signed an agreement with SSAB, the global Swedish steel company, to collaborate on the development and commercialization of the world's first plate heat exchanger to be made using fossil-free steel. The goal is to have the first unit made with hydrogen-reduced steel ready for 2023. The collaboration is also an important step in Alfa Laval's journey to become carbon neutral by 2030 – the same time frame set by IMO for a 40% reduction in carbon emissions from shipping.

Global steel production accounts for 7% of the world's carbon emissions. With a leading position in high-strength steel, SSAB's upcoming fossil-free steel made with HYBRIT technology will be a breakthrough for the industry as it transitions to more sustainable operations. The impact of fossil-free steel will be significant in Alfa Laval marine plate heat exchangers, which can be found on countless vessels worldwide.

Alfa Laval's heat exchanger portfolio – the industry's widest – includes plate heat exchangers that are suitable for both traditional and alternative fuels. Excelling in applications from engine and lube oil cooling to LPG cargo condensing and fuel cells, they possess innovative features that create an all-new level of reliability. Besides saving time and effort during maintenance, their design minimizes fouling and maximizes heat transfer capabilities, which ensures the highest possible energy efficiency with a very small footprint.

"Our marine plate heat exchangers are already key to decarbonizing on board, thanks to their superior level of energy efficiency," says Peter Nielsen, President, Alfa Laval Marine Separation & Heat Transfer Equipment. "Through our collaboration with SSAB, we will minimize their total carbon footprint. Manufactured with fossil-free steel, plate heat exchangers will be as smart in production as they are in operation."

Martin Lindqvist, President and CEO of SSAB says: "We're proud to welcome Alfa Laval as a partner and look forward to jointly exploring ways forward to mitigate climate change. With this collaboration we're reaching new segments, and hopefully inspiring a whole new range of customers."

To learn more about Alfa Laval marine heat exchangers and Alfa Laval's approach to heating and cooling, please visit: www.alfalaval.com/industries/marine-transportation/marine/heating-and-cooling

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Editor's notes

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This is Alfa Laval

Alfa Laval is a world leader in heat transfer, centrifugal separation and fluid handling, and is active in the areas of Energy, Marine, and Food & Water, offering its expertise, products, and service to a wide range of industries in some 100 countries. The company is committed to optimizing processes, creating responsible growth, and driving progress to support customers in achieving their business goals and sustainability targets.

Alfa Laval's innovative technologies are dedicated to purifying, refining, and reusing materials, promoting more responsible use of natural resources. They contribute to improved energy efficiency and heat recovery, better water treatment, and reduced emissions. Thereby, Alfa Laval is not only accelerating success for its customers, but also for people and the planet. Making the world better, every day.

Alfa Laval has 17,900 employees. Annual sales in 2021 were SEK 40.9 billion (approx. EUR 4 billion). The company is listed on Nasdaq Stockholm.

www.alfalaval.com