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Introducing the Alfa Laval E-PowerPack – a game-changing advance in marine sustainability

As the marine industry works to decarbonize, Alfa Laval is at the forefront of preparing technologies to make it happen. Now the first of many new energy solutions is coming to fruition: the Alfa Laval E-PowerPack. Able to convert waste heat directly into electrical power, the E-PowerPack reduces fuel consumption and CO₂ emissions – creating a simple, cost-saving tool for complying with new sustainability requirements.

Fulfilling the sustainability promise

“Alfa Laval is pursuing a wide range of technologies to support decarbonization, both independently and with partners,” says Lars Skytte Jørgensen, Vice President Technology Development, Energy Systems, Alfa Laval Marine Division. “Fuel cells and many other innovations are in the pipeline, but the first critical step is to leverage the existing energy on board. The E-PowerPack does that in a revolutionary way, while building on Alfa Laval’s many decades of waste heat recovery experience.”

Launching in April, the E-PowerPack is a self-contained solution that can generate electricity from many different heat sources on board. These include exhaust gas waste heat, which accounts for 50% of the energy from combusted fuel, but also liquid sources at lower temperatures, such as engine jacket water. All can make a sizeable difference.

“The versatility and fuel savings will make the E-PowerPack an easy choice for shipowners, who can use it to improve a vessel’s Energy Efficiency Index and Carbon Intensity Indicator,” says Danny Ingemann, Head of Global Sales responsible for the product. “On a wider level, it will be a decisive part of reaching the industry’s common goal of net zero carbon.”

Enabling tomorrow’s zero-carbon operations

Regardless which fuels they operate with today, fleets can use the E-PowerPack to reduce their fuel consumption, emissions and costs. On vessels where moving to low-sulphur fuel has created a surplus of steam, the E-PowerPack will transform the excess into a free source of power. Going forward, the E-PowerPack will also be vital as energy recovery becomes key in transitioning to green methanol and ammonia.

“Savings that offset fuel costs are only one part of the picture, since methanol and ammonia are both more expensive and less energy-rich,” Ingemann explains. “For the amount of fuel they carry to be feasible, vessels will need to utilize all of the energy that methanol and ammonia contain. The E-PowerPack will be a vital part of achieving the energy balance.”

Join the launch from the Alfa Laval Test & Training Centre

The E-PowerPack will launch on 5th of April with a special webinar broadcast from the Alfa Laval Test & Training Centre, a site that is central to Alfa Laval’s sustainability efforts and which hosts a range of industry-spanning projects with decarbonization in focus.

During the webinar, viewers will learn about the product and its use of Organic Rankine Cycle (ORC) technology to turn waste heat into clean electricity. They will discover how the E-PowerPack fits into today's fuel strategies, creating new opportunities by providing free additional power. Moreover, they will see how it improves EEDI/EEEXI and CII, thus supporting compliance and a more favourable rating while paying itself back in as little as 2–3 years.

To learn more about the E-PowerPack launch, please visit and register your participation in the webinar at: <https://alfa-laval-marine-division.adobeconnect.com/alfalavalepowerpacklaunch/event/registration.html>

For further information, please contact:

Lars Skytte Jørgensen

Vice President Technology Development, Energy Systems
Alfa Laval Marine Division
Phone: +45 4025 4426
E-mail: larss.jorgensen@alfalaval.com

Danny Ingemann

Head of Global Sales
Alfa Laval Marine Division
Phone: +45 2223 8698
E-mail: danny.ingemann@alfalaval.com

Anne Henningsen

Marketing Communications Manager
Alfa Laval Marine Division
Phone: +45 7175 0092
E-mail: anne.henningsen@alfalaval.com

Editor's notes

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

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