



June 2023

Alfa Laval to deliver the world's first methanol-fired steam boiler solutions, enhancing fuel flexibility with methanol

Alfa Laval is taking a pivotal role in driving the marine industry's transition to carbon-neutral green methanol with its methanol-capable solutions. The company has expanded its portfolio of alternative fuel solutions with the introduction of methanol-fired Aalborg boiler systems that offer exceptional fuel flexibility, accommodating a wide range of fuel types including methanol. This addition marks a significant milestone in the marine industry as it will be the first time a methanol boiler will be installed onboard a ship.

With the marine industry's increasing focus on low carbon-based solutions, Alfa Laval has secured significant orders for Aalborg boilers operating on methanol. The methanol-fired boiler solutions will be installed, for the first time, on new build container vessels and more deliveries are in the pipeline for cruise ships and tankers. Deliveries of the methanol boilers are scheduled to commence in late 2023.

Fuel flexible & future-ready solution

The Aalborg boiler solutions are specifically designed with decarbonization and fuel transition in mind. Besides operating on today's fuels, including low-sulphur fuels, biofuels and LNG, it is designed for compatibility with methanol and other emission-reducing fuels. Alfa Laval's "ready boiler" concept provides a future-proof platform, allowing for easy adjustments to the existing burner and boiler pressure section as needed.

"Our boiler solutions are designed to meet the growing demand for sustainable shipping and ensure readiness for today's and tomorrow's emission-reducing fuels, including methanol," says Jeppe Jacobsen, Head of Global Sales, Heat & Gas Systems, Alfa Laval. "Having been pioneers in delivering steam boilers for LNG, we are pleased to be the first to support our customers in their fuel transition with our methanol-fired boilers."

Advanced technology for substantial fuel savings

Irrespective of the fuel choice, Aalborg boiler solutions ensure substantial fuel savings through exceptional thermal efficiency and the utilization of the innovative Turbo Clean, intelligent (TCi) technology. The TCi cleaning process not only enhances efficiency but also guarantees a prolonged boiler service life.

Alfa Laval has rigorously tested boiler operations with methanol at the Alfa Laval Test & Training Centre in Aalborg, Denmark since early 2021. In November 2021, the American Bureau of Shipping (ABS) granted Alfa Laval the first marine Approval in Principle for operating boilers on methanol. In less than two years, Alfa Laval is ready to deploy



methanol boiler solutions for some of the largest shipowners, driving the adoption of boilers for alternative fuels across the maritime industry.

Alfa Laval is addressing a wider energy picture with both existing and new solutions. The Alfa Laval FCM Methanol, fuel supply system and a wide range of heat exchangers for methanol have long been proven at sea. With the addition of the Aalborg boiler for methanol, Alfa Laval is supporting shipowners in the design of methanol-fuelled vessels.

To learn more about Alfa Laval solutions for methanol and Alfa Laval's approach to sustainable shipping, please visit: www.alfalaval.com/methanolasfuel

For further information, please contact:

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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 20,300 employees. Annual sales in 2022 were SEK 52.1 billion (approx. EUR 4.9 billion). The company is listed on Nasdaq Stockholm.

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