Alfa Laval PureCool further expands Alfa Laval’s leadership in marine environmental solutions

**A new system for reducing marine emissions has entered Alfa Laval’s Pure Thinking portfolio. Targeting methane slip from LNG engines, the Alfa Laval PureCool system continues a leadership journey of nearly two decades. At the same time, it points the way forward into a new era of customer-focused environmental work.**

**A unified push for green solutions**

Over 15 years ago, Alfa Laval set a bar with the Pure Thinking concept. Pure Thinking defined an organized effort to pursue environmental solutions and help marine customers meet new legislation. Key systems like Alfa Laval PureBallast and PureSOx were introduced well ahead of respective regulations, ensuring that customers had proven solutions when the time for compliance arrived.

“We recognize our responsibility, both to our customers and to generations to come,” says Sameer Kalra, President, Alfa Laval Marine Division. “Alfa Laval is committed to meeting environmental challenges, which have grown more diverse and interconnected. Between our depth of experience and our involvement with many different onboard applications, we can take a comprehensive approach.”

**Tackling methane slip**

The new Alfa Laval PureCool system targets an unaddressed emission source: methane slip. This is the small percentage of unburned methane that escapes through the engine when LNG is used as fuel. Although no regulations currently exist for it, there is growing awareness of methane slip’s climate impact.

“LNG is proving an important bridge fuel in the transition to a zero-carbon future,” says Søren Hjorth Krarup, Business Unit President. “When combusted, LNG releases less CO2 than other fossil fuels. However, methane has a higher global warming potential than CO2, which makes the unburned fraction a concern. Regulations may or may not appear, but methane slip must be addressed if we are to reach a 50% reduction in marine greenhouse gas emissions by 2050.”

**Partnering across the marine industry**

PureCool exemplifies Alfa Laval’s forward thinking, but also the cooperation needed to meet ambitious environmental goals. Realized in partnership with engine developer WinGD, it is the main component of iCER technology, an option for next-generation WinGD X-DF engines where exhaust gas is recirculated at low pressure. With PureCool as the vital cascade exhaust gas cooling system, iCER slashes methane slip by up to 50% ­– while creating a 3% gain in fuel efficiency.

“Partnerships can bring the dramatic results needed to fight climate change,” says Kalra. “This is why Alfa Laval joined the Getting to Zero Coalition, and it is why we pursue joint projects with suppliers and research partners at the Alfa Laval Test & Training Centre. By pulling together across the industry, we can solve our planet’s problems while protecting – or even improving – vessel operations and economy.”

**A solution for a new era**

The PureCool system is a continuation of Alfa Laval’s long-term efforts, but Kalra notes it is also an important turn. PureCool fits neatly alongside Alfa Laval PureBallast (ballast water treatment), PureBilge (bilge water treatment), PureNOx LS & HS (NOx abatement), PureSOx (SO abatement) and PureVent (crankcase gas cleaning). However, it is the first Pure Thinking solution specifically for LNG and a new fuel era.

“Emission restrictions are influencing fuel selection, which in turn affects so much else on board,” says Kalra. “Getting to 2050 will require even more fuel choices, including biofuels, which we will soon be testing at the Alfa Laval Test & Training Centre. Whether customers select LNG or another option, we will help them get the most benefit from it – environmentally and otherwise.”

“Every choice matters,” Kalra concludes, “and Alfa Laval can support every choice.”

To learn more about Alfa Laval PureCool and Alfa Laval’s approach to methane slip reduction, please visit: [www.alfalaval.com/purecool](http://www.alfalaval.com/purecool)

More about Alfa Laval’s other marine environmental solutions can be found at: [www.alfalaval.com/marine](http://www.alfalaval.com/marine)

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**Editor’s notes**

**About Alfa Laval PureBallast**

PureBallast, which was the first commercially available ballast water treatment solution, is a chemical-free technology sold and serviced by Alfa Laval. A vital component of PureBallast is the enhanced UV reactor, which was developed jointly by Alfa Laval and Wallenius Water based on Wallenius Water technology. All PureBallast systems are available with both IMO and U.S. Coast Guard type approvals.

**This is Alfa Laval**

Alfa Laval 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 – always going the extra mile 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. It’s all about *Advancing better*™.

Alfa Laval has 17,500 employees. Annual sales in 2019 were SEK 46.5 billion (approx. EUR 4.4 billion). The company is listed on Nasdaq OMX.

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