

Press release

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New 1500 m³/h reactor for Alfa Laval PureBallast 3 will handle large ballast water flows with even greater efficiency

Alfa Laval is introducing a new UV reactor size to the Alfa Laval PureBallast 3 family. Optimized for 50% more flow than the current largest reactor size, the 1500 m³/h version will enable streamlined and cost-effective configurations for tankers and other vessels with large ballast water flows.



PureBallast family

The 1500 m³/h reactor will join an existing PureBallast 3 range that comprises 170, 300, 600 and 1000 m³/h reactor sizes. Alone or in combination, the reactors enable PureBallast 3 system flows of 32–3000 m³/h, with multiple systems handling even larger capacities.

With the introduction of the 1500 m³/h reactor, PureBallast 3 systems will become even more optimized for large ballast water flows of 1000 m³/h or more. A 3000 m³/h system will be achieved with just two reactors, for example, while a 1500 m³/h system will go from two reactors to one.

Having fewer reactors will reduce the complexity and cost of installing a large-flow ballast water treatment system. Since UV systems are already smaller and more cost-effective to install than electrochlorination systems, this may further shift the balance towards UV among tankers and other vessels with large ballast water flows.

“Many ship owners are reconsidering what they’ve been told about ballast water treatment for large flows,” says Anders Lindmark, Head of Alfa Laval PureBallast. “Heating needs, tanks for high-salinity water and the management of chemicals add size, complexity and cost for electrochlorination systems. PureBallast 3 is already highly competitive for large flows – and will be even more so with the 1500 m³/h reactor.”

In the case of a 1500 m³/h system, the new reactor will mean not only a reduction in footprint, but also improved OPEX through a substantial reduction in power consumption. When updating the range of PureBallast 3 configurations, however, Alfa Laval has kept lifecycle cost in focus. Although it could be constructed with the 1500 m³/h reactor, a 1200 m³/h system will be more energy efficient with two 600 m³/h reactors, thus ensuring the lowest costs over time.

“With five reactor sizes, we can fine-tune PureBallast 3 systems for any flow range,” says Lindmark. “When it comes to ballast water treatment for large flows, the 1500 m³/h reactor doesn’t just strengthen our offering. It truly changes the equation for UV.”

To learn more about Alfa Laval PureBallast 3 and Alfa Laval’s approach to ballast water treatment, visit www.alfalaval.nl/pureballast

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You can also stay up-to-date with marine industry news at Alfa Laval by visiting the [Marine Division’s LinkedIn page](#).

Editor's notes

About Alfa Laval

Alfa Laval is a leading global provider of specialized products and engineering solutions based on its key technologies of heat transfer, separation and fluid handling.

The company's equipment, systems and services are dedicated to assisting customers in optimizing the performance of their processes. The solutions help them to heat, cool, separate and transport products in industries that produce food and beverages, chemicals and petrochemicals, pharmaceuticals, starch, sugar and ethanol.

Alfa Laval's products are also used in power plants, aboard ships, oil and gas exploration, in the mechanical engineering industry, in the mining industry and for wastewater treatment, as well as for comfort climate and refrigeration applications.

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