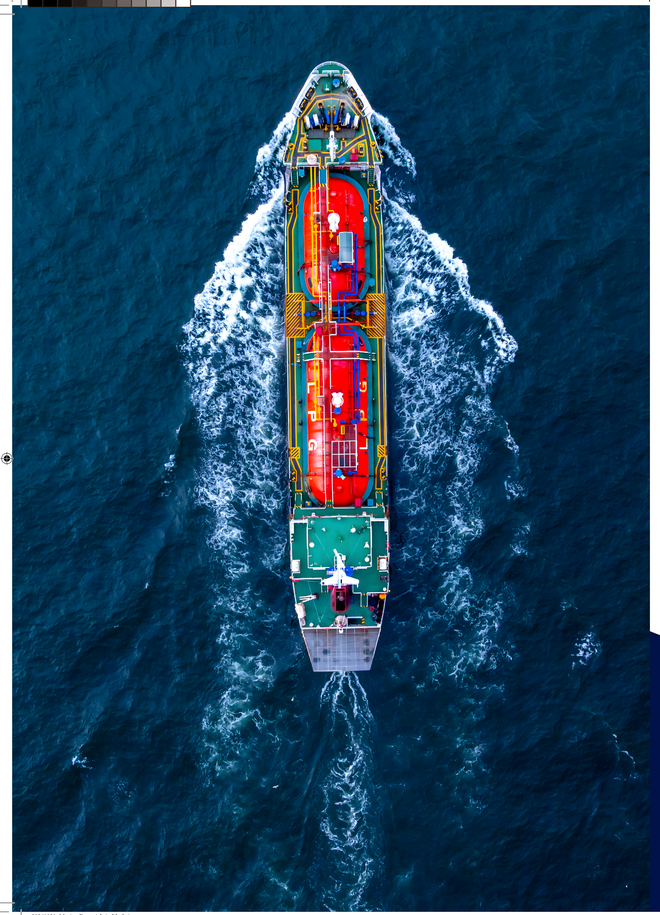

This is Alfa Laval

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™

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com

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Marine essentials

Equipment and services for marine applications

Together for **ocean innovation**

Whether you sail ships or build them, we can help you meet the challenges of today and tomorrow. In this era of decarbonization and compliance, protecting the environment and strengthening your operations go hand in hand.

As fuels, systems and operations evolve, Alfa Laval is delivering the innovation to ensure your efficiency. From the fuel shift to digitalization and beyond, our technologies and insights safeguard your business interests and enable you to navigate new energy pathways, optimize performance and stay future-ready.

Through reliable solutions, worldwide service and connected expertise, we're fulfilling the promise we made over 100 years ago. At sea or in port, on board or online – Alfa Laval is your constant partner.

Solutions to keep you ahead

In a changing industry, count on Alfa Laval for solutions – from bow to stern, above deck and below, as well as far beyond.

Oil cleaning
Alfa Laval separators opened the door for the fuels in common use today, giving us more oil treatment experience than any other marine supplier. Worldwide and on many types of vessels, our compact and cybersecure separators provide highly efficient cleaning of fuel (including biofuels) and lubrication oils. Centrifugal separation is not only the most reliable treatment technology but also the most cost-effective.

Oil filtration
Alfa Laval offers automatic filters for fuel (including biofuels) and lubricating oil, as well as MAN E.S. approved hydraulic oil filters. Their compact design enables flexible installation and requires minimal space in the engine room. They combine high filtration efficiency for reliable engine protection with low maintenance costs.

Fuel supply
Alfa Laval's outstanding experience in fuel supply systems secures peace of mind with both established fuels and newer fuel alternatives. Using cutting-edge automation, Alfa Laval fuel supply solutions ensure smooth changeover between traditional fuels and safe handling of more challenging fuels like LPG, methanol and ammonia.

Sludge dewatering
Minimizing sludge volumes leads to lower costs for waste handling. Alfa Laval PureDry™ is an automated system that removes water content, concentrating the solids into a super-dry sludge. Its efficiency allows a reduction in holding tank volumes, freeing up space. If fuel and lube oil waste are stored separately, it also enables fuel savings of up to 0.5%.

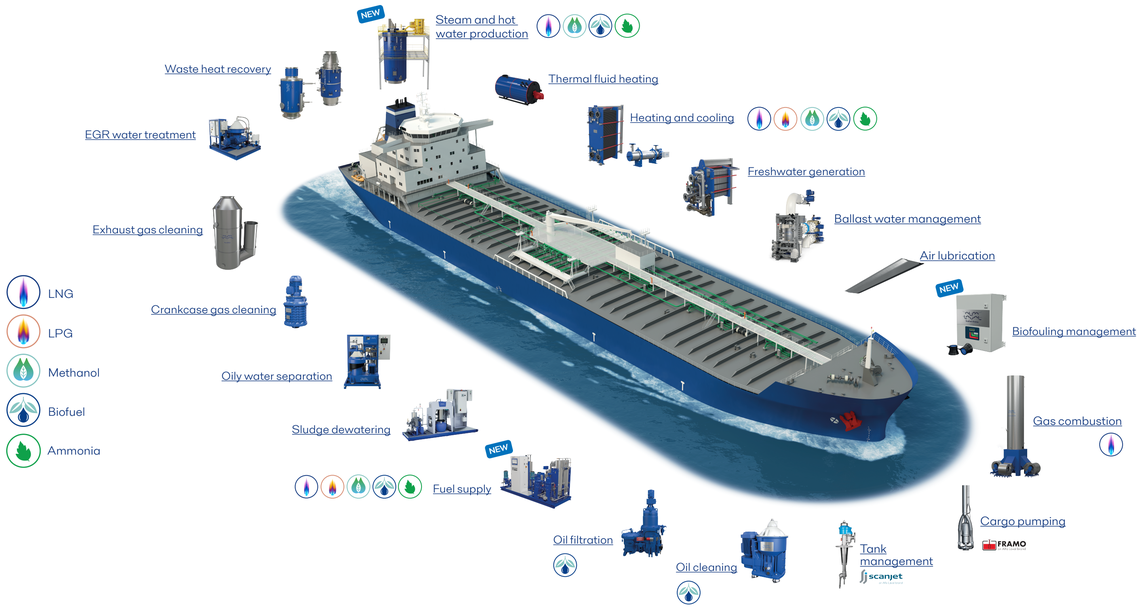
Oily water separation
Alfa Laval PureBilge™ is a fully automated and cybersecure centrifugal separation system for cleaning oily water. By effectively removing oil pollution to a level well below 15 ppm, it sets a new standard in making water safe and compliant for discharge overboard. PureBilge operates continuously and is unaffected by feed variations, oil shocks and rough weather conditions.

Crankcase gas cleaning
The oil and particles in crankcase gas are a threat to the environment and human health. Alfa Laval PureVent™ is a compact solution for removing them, developed in cooperation with a major engine manufacturer. Using centrifugal separation instead of filters, PureVent returns virtually oil-free air while allowing collected oil to be recirculated as lubrication.

Exhaust gas cleaning
By scrubbing harmful SOx from their exhaust gas, vessels can continue to use economical high-sulphur fuel. Alfa Laval PureSOx® is the proven and trusted scrubber solution, backed up by experience and a comprehensive service offering. Available in open-loop, closed-loop and hybrid configurations, it provides reliable compliance with both sulphur limits and water discharge regulations.

EGR water treatment
In Exhaust Gas Recirculation (EGR), cleaned exhaust gas is used to reduce the engine's combustion temperature and the formation of NOx. To safeguard EGR operation and ensure discharge compliance, the process requires water treatment. Alfa Laval PureNOx™ technology offers an effective solution with more time at sea than any other, built on Alfa Laval's centrifugal separation expertise.

Waste heat recovery
Half the energy from combusted fuel is released as heat, so it makes sense to reclaim as much of it as possible. Alfa Laval has a full portfolio of waste heat recovery solutions, not only for main engines but also for auxiliary engines. Alfa Laval Aalborg® economizers are available with smoke tubes or water tubes, and with single or multiple inlets, to suit every retrofit need.



New technologies. New solutions. New possibilities.

Wind propulsion
Through Oceanbird, a joint venture with Wallenius, Alfa Laval is enabling wind-assisted and wind propulsion.

Voyage Intelligence
StormGeo, part of Alfa Laval, empowers smarter voyage decisions through advanced weather intelligence, connected solutions, and expert decision support across every stage of the voyage.

Welcome aboard

Steam and hot water production
Alfa Laval Aalborg boilers have led the way for over 100 years. Today, our boiler platform is fuel-flexible and future-proof. Besides using traditional oils and biofuels, boilers can be equipped for a further alternative: LNG, methanol or ammonia. Likewise, they can be prepared as electric hybrids for use with shore power. Both configuration possibilities are available as ready-boiler options, allowing easy conversion later.

Thermal fluid heating
Thermal fluid heating systems are a smart application of Alfa Laval's thermal expertise. They combine superior heat transport efficiency with low system pressure, as well as low costs for installation and maintenance. Our complete thermal fluid heating systems include the Alfa Laval Aalborg TFO thermal fluid heater, waste heat recovery units, pumps, valves, accessories and intelligent control.

Heating and cooling
Alfa Laval has the marine industry's widest portfolio of heat exchangers. Our offering covers every possible onboard application, from engine and lube oil cooling to LPG/ammonia cargo condensing and fuel cells. Suitable for alternative fuels as well as traditional options, our heat exchangers handle temperatures from cryogenic to 800°C and pressures up to 1250 bar.

Freshwater generation
Having pioneered freshwater generation over a half-century ago, Alfa Laval has a solution for all capacities. The AQUA™ Blue family cuts seawater and electrical power requirements in half using 3-in-1 AQUA plate technology, and the non-glued gaskets allow easy maintenance on board. A two-stage version is also available, providing the same quantity of high-quality fresh water while needing just half the waste heat.

Ballast water management
Alfa Laval pioneered ballast water management, and we still set the benchmark with our latest system, Alfa Laval PureBallast® 3 Ultra. Compact and easy to install, this automated inline treatment solution offers unmatched performance in challenging waters, thanks to enhanced UV technology and improved filter performance at low power consumption. It is connectivity-ready and designed to last the vessel lifetime.

Air lubrication
Alfa Laval OceanGlide is a unique air lubrication system based on fluidic technology. Ideal for retrofits as well as newbuilds, it creates an even and controllable air layer across the entire flat bottom of the vessel – with very little compressor power. This reduces specific drag, which results in substantial propulsion power savings, lower emissions and improved sustainability scores.

Gas combustion
LNG carriers must dispose of boil-off gas (BOG) when it cannot be used for propulsion, or when the tank is prepared for inspection. The Alfa Laval Gas Combustion Unit (GCU) is a high-capacity solution, built with a simple – and therefore reliable – design. It safely regulates cargo tank pressure on LNG carriers with dual-fuel or low-speed dual-fuel engines.

Cargo pumping
Framo® pumping systems are vital for maximizing the utilization of product and chemical tankers. The hydraulically driven submerged cargo pumps provide safe, efficient and flexible cargo handling of any type of liquid cargo. Improved cargo handling performance gives quicker turnaround time and fewer voyages in ballast.

Framo cargo pumps and other Framo products are sold exclusively by Framo AS.

Tank management
Scanjet, an Alfa Laval brand, is a pioneer and leader in safe and effective tank management. With an extensive range of efficient tank management solutions, Scanjet caters to both marine and offshore applications. The products comprise fixed and portable tank cleaning equipment, PV valves and systems for tank venting, tank level gauging, cargo monitoring and tank segregation.

Biofouling management
Alfa Laval Sonihull uses ultrasound to prevent biofouling on hulls, propellers and cooling systems. It reduces fuel and maintenance costs without chemicals or coatings. Easy to install, it requires no through-hull fittings or dry docking, minimizing disruption to operations.

Service
All equipment needs attention over its lifetime. Our Alfa Laval Marine Service network is always on the job, coordinating across oceans, continents and time zones to provide 24/7 Service & Support.
As trusted partners, we proactively guide our customers on their decarbonization journey, helping them navigate fuel and technology complexities. We ensure their operations remain compliant, efficient, and future-ready. Whether remotely, on board, at our service centres or in dry dock, we are there when and where our customers need us.

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