



Marine essentials

Equipment and services for marine

e in the areas of Energy, Marine, and Food & expertise, products, and service to a wide range of 100 countries. The company is committed to processes, creating responsible growth, and driving success by going the extra mile to support customers in achieving business goals and sustainability targets.

ative technologies are dedicated to purifying, ing materials, promoting more responsible sources. They contribute to improved energy at recovery, better water treatment, and reduced by, Alfa Laval is not only accelerating success for also for people and the planet. Making the world t's all about Advancing better.[™]

Alfa Laval

Global contact details for all countries are always
available at www.alfalaval.com

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Together for sustainable shipping

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 made over 100 years ago. At sea or in port, on land 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 you to reduce holding tank volumes, freeing up space. You can even achieve fuel savings of up to 0.4% if fuel oil and lube oil waste are stored separately.

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.

Power from waste heat

Sustainability requirements put saving energy in focus. With the Alfa Laval E-PowerPack, vessels have a convenient upgrade that makes a measurable difference to energy efficiency. The E-PowerPack uses Organic Rankine Cycle (ORC) technology to convert waste heat streams into free electrical power. That leads to lower fuel costs, reduced emissions and improved vessel ratings.

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 Alalborg™ economizers are available with smoke tubes or water tubes, and with single or multiple inlets, to suit every retrofit need.



**Enabling
the future today**



StormGeo

Part of Alfa Laval

Wind propulsion

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

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 further alternatives: 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.

Gas combustion

NG carriers must dispose of oil-free gas (OG) 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, built-in system and therefore reliable design. It safely reduces cargo tank pressure or LNG carries with dual-fuel or low-speed dual-fuel engines.

Cargo pumping

FRAMO pumping systems are vital for maximizing the utilization of product and chemical tanks. The hydraulically driven submerged cargo pump provides 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. Cargo pump units other than FRAMO products are sold exclusively by FRAMO AS.

Tank management

Scantech, Alfa Laval brand, offers an extensive range of efficient tank management products and solutions – comprising fixed and portable tank cleaning, tank cleaning, PV valves, tank level monitoring and cargo monitoring systems, as well as tank segregation. Catering to a wide range of marine and offshore applications, Scantech is a pioneer in leading safe and effective tank management solutions.

Biofouling management

Alfa Laval Scanjet uses ultrasound to prevent biofouling on hulls, propellers and cooling systems. It reduces fuel consumption and maintenance costs without chemicals and easily installs, requiring minimal 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 judge our customers on their decarbonization journey, helping them navigate fuel and technology complexities, ensuring operations remain compliant, efficient and future-ready. Whether remote or on board, at our service centres or during drydock, we're there when and where you need us.

