

Optimize



Alfa Laval

Reconditioning plate heat exchanger for dry dock efficiency



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Service product
Reconditioning

Equipment
Plate heat exchanger

Customer
Marine transportation company

↑100%

on time turnaround

↓Cost

drydocking

Insert literature code

Background

A leading marine transportation company in the Middle East, operating a global fleet of 32 vessels, plays a vital role in moving crude oil, refined petroleum products, and liquefied petroleum gas across international waters. With over six decades of experience, the company has built a strong reputation for reliability, safety, and strict adherence to international standards. Maintaining that reputation requires more than just technical expertise at sea. Behind every successful voyage lies careful preparation that includes ensuring critical systems operate at peak efficiency, especially during scheduled drydock periods. That is where Alfa Laval came in as a trusted service partner.

The challenge

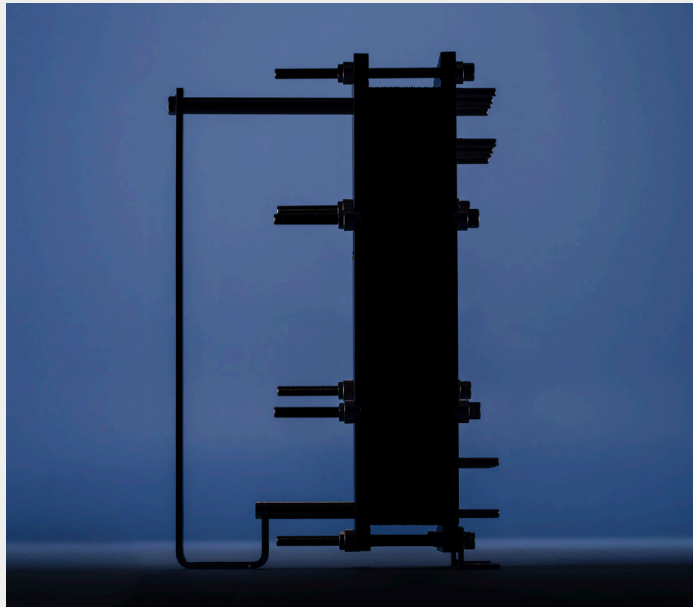
Over time, several of the vessels' onboard plate heat exchangers (PHEs) began to show reduced cooling efficiency and signs of leakage. These units, responsible for central and lube oil cooling, are essential to keeping onboard systems operating within safe temperature ranges. Any drop in performance poses significant risks to operational reliability and schedules. While the customer had access to more economical alternatives through shipyard services, they recognized that only an OEM partner like Alfa Laval could deliver the quality, precision, and turnaround needed to meet strict drydock deadlines.

Our solution

Following a detailed presentation of Alfa Laval's reconditioning process and service capabilities, the customer invited participation in a competitive tender. Alfa Laval was selected to carry out a comprehensive reconditioning project for the vessels' PHEs.

Under the Global Drydock Service Program, Alfa Laval completed full reconditioning of 1,950 PHE plates across five vessels. The project covered thorough inspections, professional cleaning, replacement of worn components, pressure testing, and final certification — all performed in strict accordance with OEM specifications.

Throughout the project, Alfa Laval teams maintained close coordination with the customer to ensure seamless execution within the drydock period. With each day in drydock potentially costing between €10,000 and €120,000, depending on vessel size and location, avoiding delays was critical.



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“Drydock periods leave no room for delays. By combining global expertise with strong local coordination, we ensured 100% on-time turnaround without compromising on quality. The successful reconditioning of over 1,950 PHE plates not only restored performance but also helped our customer reduce drydock costs and operational risks.”

Isis Villarreal

Inside Sales Engineer
Marine Division

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Customer benefit

The reconditioned PHEs restored optimal cooling performance across all five vessels, significantly reducing energy consumption from auxiliary systems and preventing unplanned downtime. This helped the customer maintain operational schedules while reducing fuel consumption, supporting both cost savings and environmental targets. Alfa Laval's proven service frameworks, technical expertise, and global network help customers stay on schedule, avoid costly delays, and extend the lifetime of their equipment. With a 100% on-time turnaround and measurable reduction in drydock costs, Alfa Laval delivers more than service, we deliver certainty.



Beyond technical performance, the customer continues to benefit from:

- Well-coordinated drydock services through Alfa Laval's global expertise and local presence
- Predictable lead times and easy access to genuine spare parts
- Reduced emissions and improved energy efficiency, contributing to sustainability goals
- Minimized maintenance costs and reduced operational risks

Be future ready with Alfa Laval

With critical cooling systems restored and a proven drydock strategy in place, the customer is better prepared for future maintenance cycles and future voyages. Alfa Laval continues to stand as a reliable partner, helping marine operators navigate the challenges of tomorrow with confidence.



Optimize

Ensure lower operational costs and higher uptime in the most sustainable way- from the current performance to the expected stability and efficiency.

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