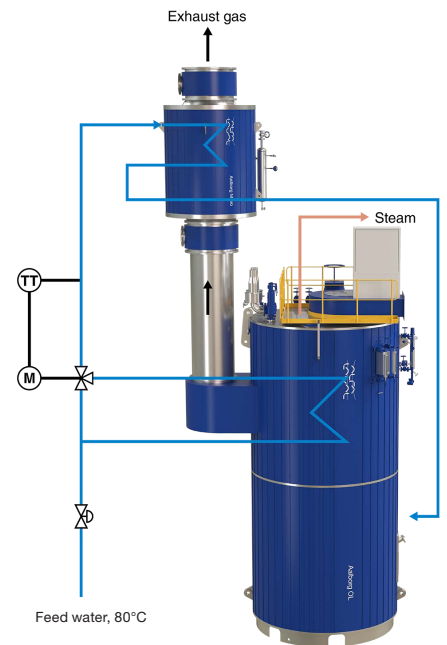


Improve boiler efficiency on your tanker

Decarbonization means reducing energy use on your tanker – and looking beyond the engine to other energy-consuming systems. Whether you need to improve sustainability indexes or simply want to lower OPEX, there are easy options that boost the thermal efficiency of Alfa Laval Aalborg OL boilers.

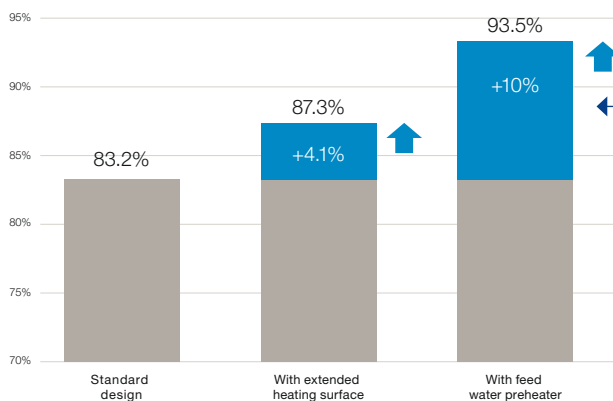


Up to 4% improvement

in thermal efficiency with extended heating surface

The simplest way to boost boiler efficiency is to extend the Aalborg OL heating surface. This increases the evaporation rate, which means less fuel is burned. The investment and space requirements are minimal, but they yield up to 4% greater efficiency.

Thermal efficiency of Aalborg OL boiler (35 t)



Boiler load 100%

VLSFO (LHV=41200 kJ/kg), FF 0.9, PW=16 bar(g), FW=80°C, 25°C air with RH=30.9%

Up to 10% improvement

in thermal efficiency by installing a preheater

Alternatively, you can gain even more by installing a compact Alfa Laval Aalborg Micro as a feed water preheater. The Aalborg Micro is an exhaust gas economizer that offers high performance for its size, which makes it ideal for applications with restricted space.

By recovering heat from the flue gas and using it to heat the feed water, the Aalborg Micro creates a remarkable boost in the boiler's thermal efficiency. That means over 10% less fuel for the same output – and major OPEX savings that could provide payback in just one year.

> 90%

boiler thermal efficiency

On a Suezmax oil tanker with 2 x 35 t Aalborg OL boilers and Aalborg Micro units for preheating, the annual fuel savings could be 276 t. Depending on the fuel type and cost, this would mean average investment payback in just one year.

To take advantage of either solution (they cannot be combined), be sure to speak with your shipyard during the tanker design phase. For more information or support, please contact bjorn.klitgaardperson@alfalaval.com

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