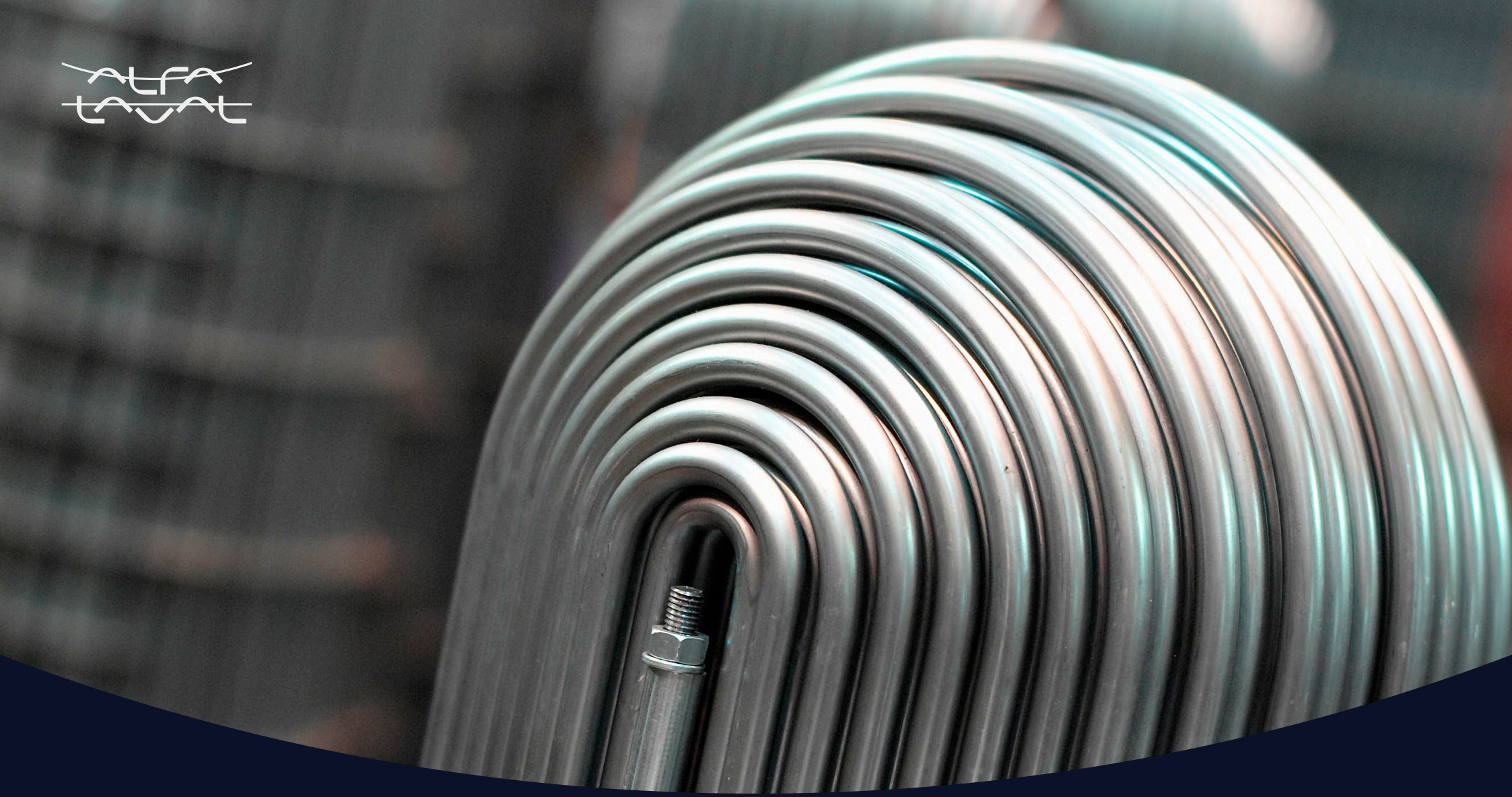


Shell-and-tube heat exchangers

Product range

Bring thermal expertise on board

Alfa Laval Aalborg shell-and-tube heat exchangers

Alfa Laval Aalborg shell-and-tube heat exchangers are an ideal choice for many marine needs. In applications from oil preheating to tank cleaning, they deliver efficiency and reliability with a small footprint.

Flexible, cost-effective solutions

Marine customer requirements are the starting point for all Aalborg shell-and-tube heat exchangers. The resulting solutions combine a custom fit with off-the-shelf delivery times and prices. You can count on:

- Compact design
- Ease of installation and use
- High thermal efficiency
- Reliable performance

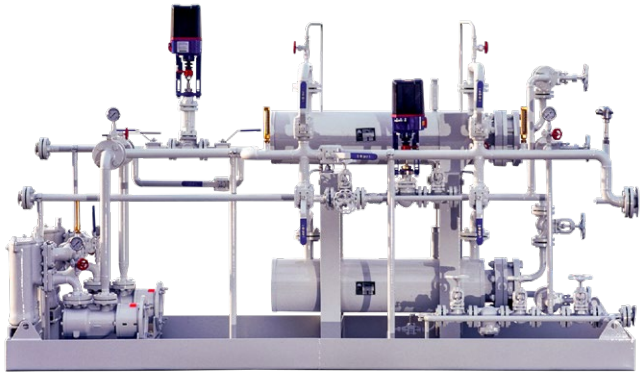
Made for marine applications

Thoroughly tested and proven at sea, Aalborg shell-and-tube heat exchangers are trusted by shipyards and owners in applications such as:

- Cargo heating
- Tank cleaning
- Fuel oil and lubrication oil heating and purifying
- Engine cooling/preheating
- Fresh water heating
- Steam generation
- Dump condensing / drain cooling

Always at your service

You can be sure of our fast and thorough support, from specifying your equipment to rapid delivery and a smooth start-up. Our team will remain at your side through many years of operation, ensured by Alfa Laval's global service network.



Shell-and-tube heat exchangers

Product range

MODEL	AALBORG MX	AALBORG MC	AALBORG MD-T	AALBORG MP-C
Type	Heat exchanger with U-tubes	Heat exchanger with U-tubes	Seawater heating by means of steam	Heat exchanger with U-tubes
Application	Heating/cooling of oil or other fluids by means of steam or thermal oil	Steam dumping / condensate cooling / cooling of oil or other fluids by means of water, thermal oil or seawater	Steam heater for seawater heating	Heating/cooling of aggressive fluids, e.g. in chemical applications
Capacity	10–5000 kW	Steam dumping 400–5000 kg/h	Seawater flow 180–380 m^3/h	300–2000 kW
Materials	Carbon steel (other materials on request)	Cu/Ni 90/10 alloy or similar for aggressive fluids in tubes, other parts in carbon steel	Cu/Ni 70/30 alloy or similar for aggressive fluids in tubes, other parts in carbon steel	Stainless steel
Design pressure /temperature	12 bar(g)/300°C 16 bar(g)/160°C 32 bar(g)/195°C	13 bar(g)/300°C	16 bar(g)/204°C	14 bar(g)/100°C
Installation	Horizontal or vertical	Horizontal or vertical	Horizontal	Horizontal or vertical
Size	Ø100 x L600 to Ø500 x L3000 mm	Ø150 x L600 to Ø500 x L3000 mm	Ø400 x L1000 to Ø500 x L3000 mm	Ø150 x L600 to Ø500 x L3000 mm

MODEL	AALBORG EH	AALBORG EH-U	AALBORG EH-W
Type	Electric flow-through, outflow or immersion heater with ceramic elements	Electric heater unit with control cabinet and pump	Electric flow-through, outflow or immersion heater with stainless steel elements
Application	Heating of oil and other viscous fluids	Heating of jacket water for diesel engines	Heating of water and non-viscous fluids
Capacity	5–235 kW	15–270 kW	15–486 kW
Materials	Carbon steel (other materials on request)	Carbon steel with wetted parts in stainless steel	Carbon steel with heating elements in stainless steel (other materials on request)
Design pressure /temperature	16 bar(g)/160°C	10 bar(g)/95°C	10 bar(g)/95°C
Installation	Horizontal or vertical	Horizontal	Horizontal or vertical
Size	Ø270 x L900 to Ø510 x L2500 mm	Ø270 x L1200 to Ø440 x L2000 mm	Ø270 x L1300 to Ø510 x L2000 mm

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