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Smaller footprint, bigger profit

Alfa Laval printed circuit heat exchangers



First-class efficiency with the smallest possible footprint

Alfa Laval printed circuit heat exchangers combine superior robustness and integrity with an exceptionally high heat transfer rate. 85% smaller and lighter than traditional shell-and-tube exchangers, printed circuit units feature a unique design that offers safe and reliable performance with lower installation and operational costs.

In use in many of today's most demanding applications, Alfa Laval printed circuit heat exchangers offer a compact and highly efficient solution for a wide range of marine, energy and oil & gas duties. Each unit can also be fully customized to meet your exact needs.



OptiBond™

A robust and compact solution for high-pressure needs



3DPlate™

Prevents clogging under freezing conditions

Improving sustainability with Alfa Laval

Printed circuit heat exchangers combine high thermal efficiency with a reduced footprint, reduced weight and reduced structural support costs. With simplified maintenance, they also provide assurance of maximum uptime. As a result, they give you a smart way to improve the sustainability of critical processes.

Safe, robust and reliable technology

Alfa Laval printed circuit heat exchangers can operate in temperatures ranging from -196°C (-320°F) to 800°C (1472°F) and pressures up to 1000 barg (14,500 psi). The robust design is immune to the effects of fluid pressure pulsations and fluid-flow-induced vibration, and the units provide dependably safe operation without the need of a pressure relief valve or additional safety accessories.

Applications

We design printed circuit units to support clean and high-pressure duties that are beyond the capability of other welded heat exchangers. They can deliver unparalleled compactness and efficiency in demanding applications in the marine, energy and oil & gas industries. Typical marine applications include high-pressure vaporization in fuel gas supply systems, LNG regasification, hydrocarbon gas and water dewpointing as well as offshore gas compression.

Leading innovation: OptiBond™ and 3DPlate™

As the global leader in heat transfer technology, Alfa Laval continuously pushes development forward with new innovations for improved performance. Our printed circuit heat exchangers are built using state-of-the-art diffusion bonding known as OptiBond™, which ensures the highest possible durability and

Technical data

Core

316 or 304

Diffusion bonded

Headers and connections

304, 316, Duplex, Super Duplex

Codes – ASME VIII Div. 1 and PED 2014/68/EU + applicable national codes

Design pressure

Full vacuum to 1000 bar (14,500 psi)

Design temperature

-196°C to 800°C (-321°F to $1,472^{\circ}\text{F}$)

efficiency within an ultra-compact footprint. For cryogenic applications, we also offer a patented 3D plate pattern that provides maximum uptime when using water-based fluids like glycols.

Worldwide support

As a truly global supplier, Alfa Laval can provide expertise wherever and whenever you need it. Our local technicians can support you during installation and commissioning, as well as with any service needs you may have during your equipment's long operational life.



Alfa Laval in brief

Alfa Laval is a leading global provider of specialized products and engineered solutions.

Our equipment, systems and services are dedicated to helping customers to optimize the performance of their processes. Time and time again.

We help our customers to heat, cool, separate and transport products such as oil, water, chemicals, beverages, foodstuffs, starch and pharmaceuticals.

Our worldwide organization works closely with customers in almost 100 countries to help them stay ahead.

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