

The BPHE concept

The compact brazed plate heat exchanger (BPHE) is constructed as a plate package of corrugated channel plates with a filler material between each plate. During the vacuum brazing process, the filler material forms a brazed joint at every contact point between the plates, creating complex channels. The BPHE allows medias at different temperatures to come into close proximity, separated only by channel plates that enable heat from one media to be transferred to the other with very high efficiency. The concept is similar to the older plate and frame technology, but without the gaskets and frame parts.

The channel plates form separate circuits for each media. The number, type, and configuration of the channel plates are easy to vary to provide the thermal characteristics required.

Efficient and reliable

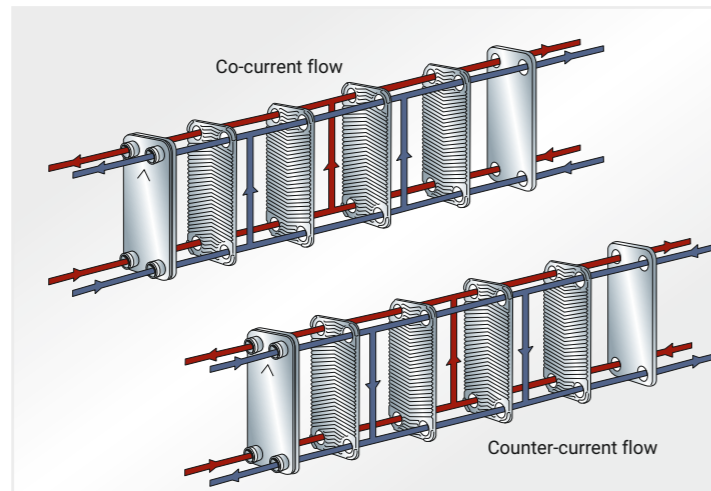
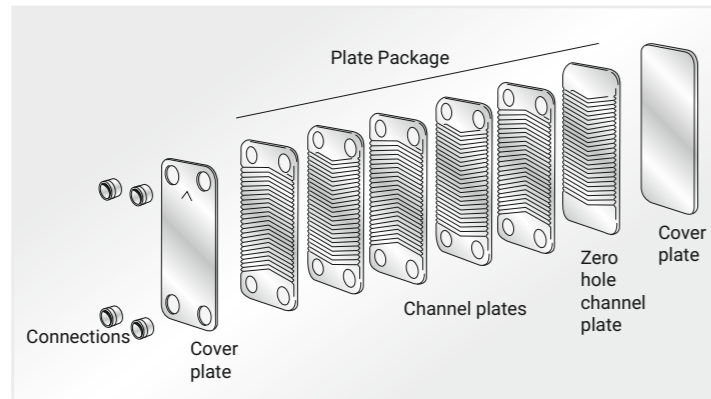
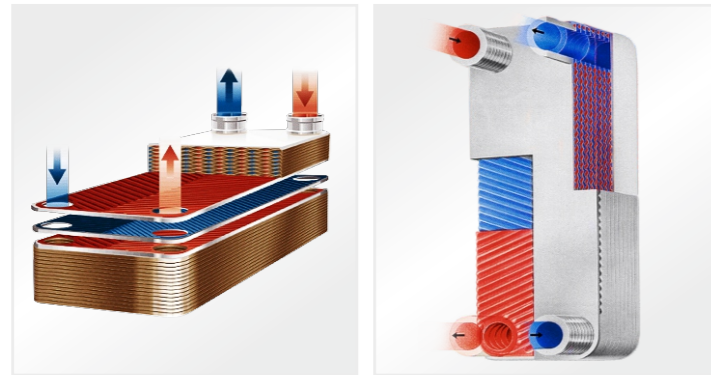
More and more people are discovering the advantages of brazed technology. Energy efficiency is higher because 95% of the material is used for heat transfer. No gaskets are required, which increases operational reliability, minimizes maintenance, and eliminates the risk of leakage. You get efficient, stable, and reliable performance in a robust and easily handled unit.

Reduced costs

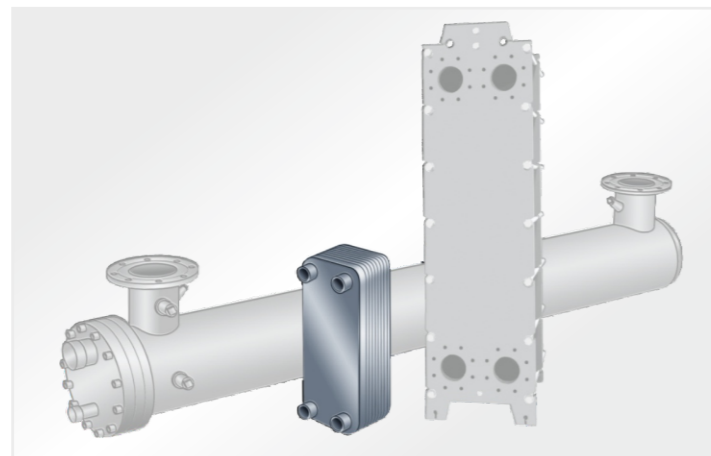
You save money in every area: energy consumption, maintenance, spare parts, space, transportation, and installation. The life cycle cost over a period of 15-20 years can often be halved compared with gasketed solutions.

Easy installation

Our BPHEs are extremely compact compared with other technologies. The footprint can be as little as one tenth that of a shell & tube heat exchanger or half that of a gasket PHE. The compact design gives you greater freedom and more efficient use of space when you are designing your system. Our modular concept enables you to perform major installations unit by unit, using standard doors and elevators.



The fluids can pass through the heat exchanger in different ways. For parallel flow BPHEs, there are two different flow configurations: co-current or counter-current.



Challenge efficiency

At SWEP, we believe our future rests on giving more energy than we take – from our planet and our people. That's why we pour our energy into leading the conversion to sustainable energy usage in heat transfer. Over three decades, the SWEP brand has become synonymous with challenging efficiency.

SWEP is a world-leading supplier of brazed plate heat exchangers for HVAC and industrial applications. With over 1,000 dedicated employees, carefully selected business partners, global presence with production, sales and heartfelt service, we bring a level of expertise and customer intimacy that's redefining competitive edge for a more sustainable future. SWEP is part of Dover Corporation, a multi-billion-dollar, NYSE-traded, diversified manufacturer of a wide range of proprietary products and components for industrial and commercial use.

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