

Simulation is one of the most important stages in the development of new and existing CBHEs. The ability to evaluate different plate patterns by simulating flow rate and directions offers great opportunities for improved functionality.



Each SWEP CBHE is delivered with full traceability and verified functionality. A SWEP CBHE is approved by leading independent international bodies, such as PED, UL, KHK and CSA.



Our "Technical Handbook about Heating Applications" offers you every opportunity to broaden your competence, with first-class information about everything from basic heat transfer to gas boilers and district heating systems.

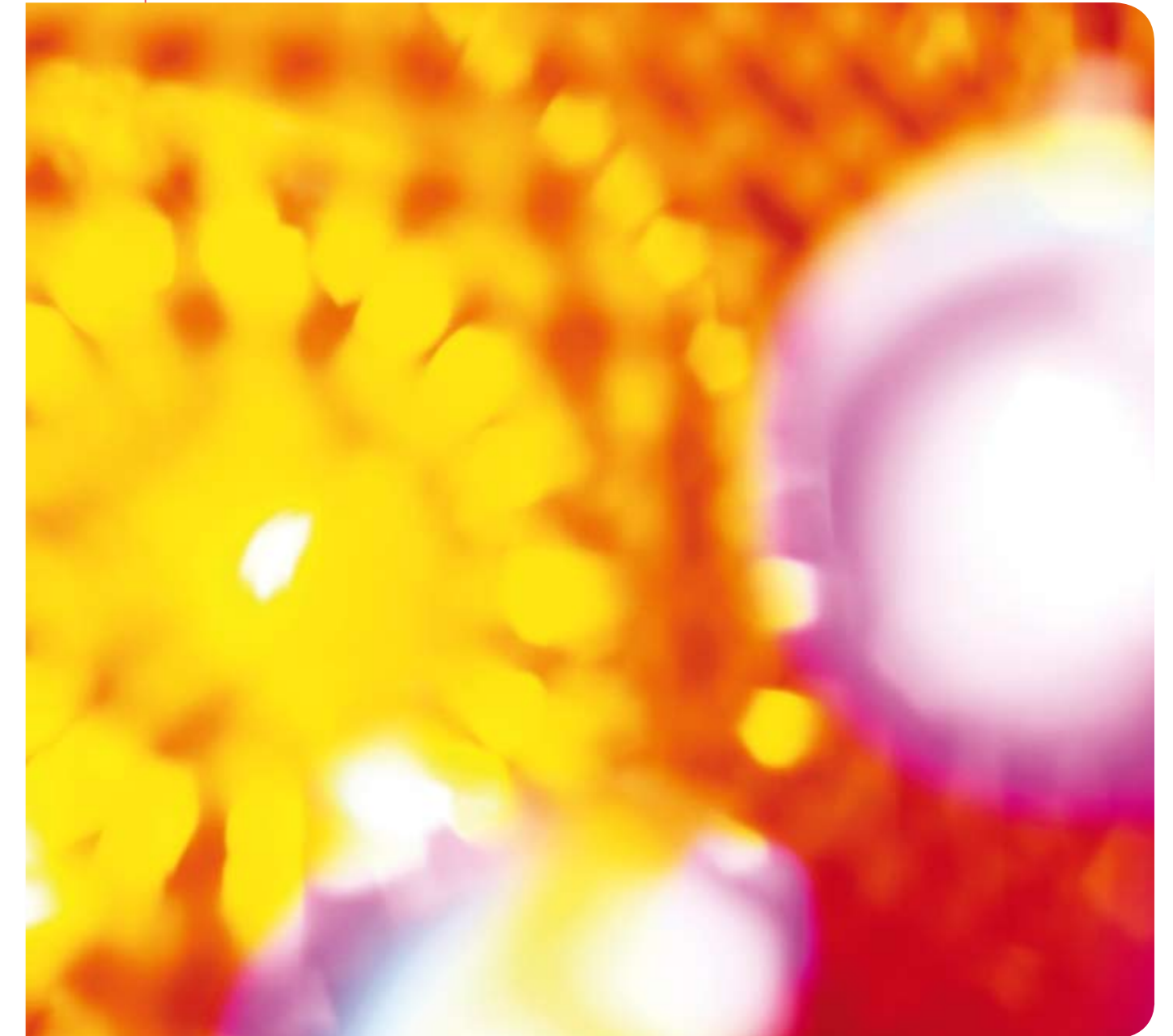
## Experience more efficient heat transfer solutions in your heating application

The list of applications that operate more efficiently with compact brazed heat exchangers, CBHEs, is a long one: boilers, steam, snow melting, floor heating, solar panels, cooling towers, district heating and sanitary water applications. New applications are added constantly, and today you will find SWEP CBHEs in virtually all kinds of solutions in the global market. Alongside the increase in the areas of use, there is also a rapid technological changeover to modern high-efficiency SWEP CBHEs where traditional rubber-gasketed plate heat exchangers and shell-and-tubes were previously used. Extensive research and development combined with effective use of CFD (Computational Fluid Dynamics) have enabled us to offer the market's most comprehensive range of products for all types of heat transfer applications. And by using standardized components, we can cost-effectively mass customize the product precisely to your needs. We can always offer you more, thanks to our complete program of effective aids. SSP, the SWEP Software package that we have developed for dimensioning exchangers and dynamic drawing generation, is the soft way to get hard facts. Or why not do some indepth reading in advanced heat transfer theory in one of our handbooks? Contact one of our expert heat transfer consultants today to find out more about SWEP CBHEs and more efficient heat transfer solutions.



SWEP is the world's leading supplier of compact brazed heat exchangers (CBHEs). These products are used where heat needs to be transferred efficiently in air conditioning, refrigeration, heating and industrial applications. SWEP has annual sales of USD 250 million and is close to its customers, with representation in more than 50 countries and its own dedicated sales force in more than 20 countries. Highly efficient production units in Sweden, Switzerland, the USA, Malaysia, Slovakia and China enable SWEP to serve customers all over the world. SWEP is part of the global Dover Corporation, which is a multi-billion-dollar, NYSE-traded, diversified manufacturer of a wide range of proprietary products and components for industrial and commercial use.

## Compact brazed heat exchangers For heating applications



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# A complete range of dedicated CBEs for heating applications



## The concept

In principle, a CBE is constructed as a plate package of corrugated channel plates between front and rear cover-plate packages. The cover plate packages consist of sealing plates, blind rings and cover plates. During the vacuum-brazing process, a brazed joint is formed at every contact point between the base and the filler material.

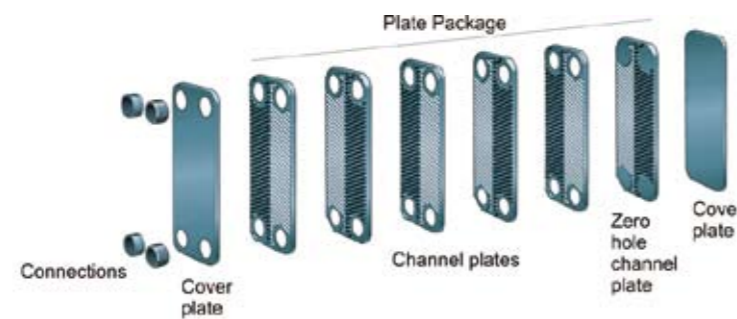
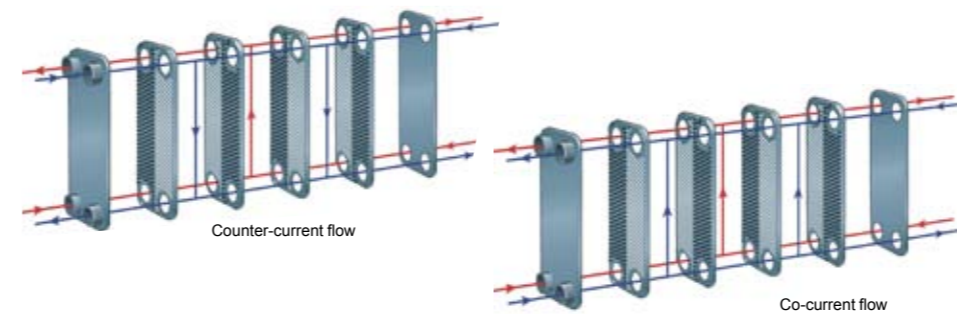


Figure 1. CBE principle

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



There are several different versions of the channel plate packages. Below is one example.

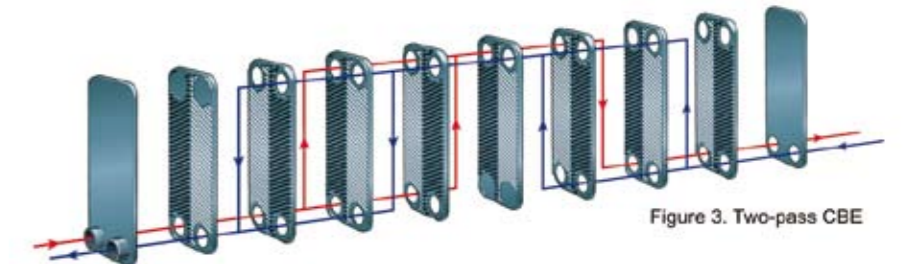


Figure 3. Two-pass CBE