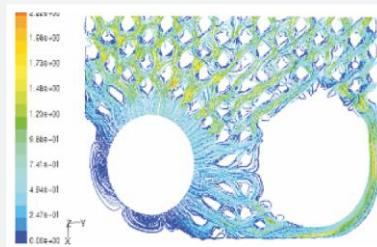


A step towards a more efficient refrigeration industry

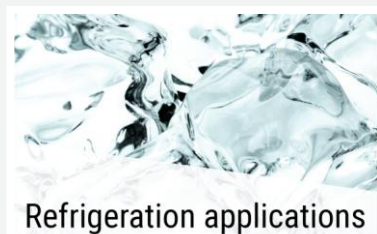
Air dryers, chillers, cascade heat pumps and refrigeration systems are typical examples of applications that operate more efficiently using brazed plate heat exchangers (BPHEs). The list of new applications is growing continuously, and today you will find SWEP BPHEs in virtually all kinds/sorts of applications in the global refrigeration market. Alongside the increase in the areas of use, there is also a rapid technological changeover to modern high-efficiency SWEP BPHEs where 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 condensers, desuperheaters, evaporators and subcoolers for all types of refrigeration applications. 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 in-depth reading in our refrigeration Handbook, the complete handbook for BPHE refrigeration applications? Contact one of our expert heat transfer consultants today to find out more about SWEP BPHEs and energy-saving solutions.



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



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



Refrigeration applications

Our "Technical Handbook about refrigeration 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.

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, diversified manufacturer of a wide range of proprietary products and components for industrial and commercial use.

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Brazed plate heat exchangers for refrigeration applications

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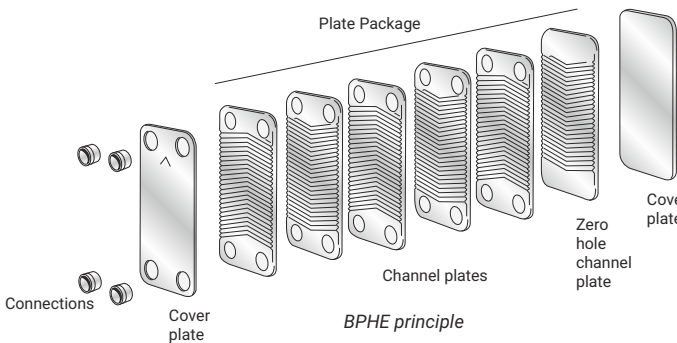
A complete range of dedicated BPHEs for refrigeration applications

3		Dimension	54.4×119.4 mm 2.14×4.7 inch	Weight	0.12±0.018×NoP kg 0.26±0.040×NoP lb	Max NoP	60
X4T		Dimension	75×192.6 mm 2.95×7.58 inch	Weight	0.26±0.040×NoP kg 0.58.4±0.089×NoP lb	Max. NoP	100
5T		Dimension	76×193 mm 2.99×7.59 inch	Weight	0.6±0.044×NoP kg 1.4±0.1×NoP lb	Max. NoP	60
X8T		Dimension	73×315 mm 2.87×12.4 inch	Weight	0.53±0.075×NoP kg 1.16±0.165×NoP lb	Max. NoP	60
8T		Dimension	72×310 mm 2.84×12.20 inch	Weight	0.9±0.07×NoP kg 2±0.2×NoP lb	Max. NoP	60
10T		Dimension	117/119×287/289 mm 4.61/4.68×11.31/11.37 inch	Weight	1.4±0.09×NoP kg 3.1±0.2×NoP lb	Max. NoP	140
12		Dimension	117×287 mm 4.61×11.31 inch	Weight	1.7±0.116×NoP kg 3.2±0.3×NoP lb	Max. NoP	140
16		Dimension	119×376 mm 4.69×14.8 inch	Weight	1.5±0.114×NoP kg 3.8±0.3×NoP lb	Max NoP	140
25T		Dimension	117/119×524/526 mm 4.61/4.68×20.65/20.71 inch	Weight	2.1±0.17×NoP kg 4.6±0.4×NoP lb	Max. NoP	140
30		Dimension	243×243 mm 9.59×9.59 inch	Weight	5.88±0.180×NoP kg 12.96±0.397×NoP lb	Max NoP	300
35T		Dimension	243×393 mm 9.57×15.48 inch	Weight	6.7±0.336×NoP kg 15.4±0.7×NoP lb	Max. NoP	250
60		Dimension	364×374 mm 14.34×14.74 inch	Weight	13±0.47×NoP kg 28.7±1×NoP lb	Max. NoP	300

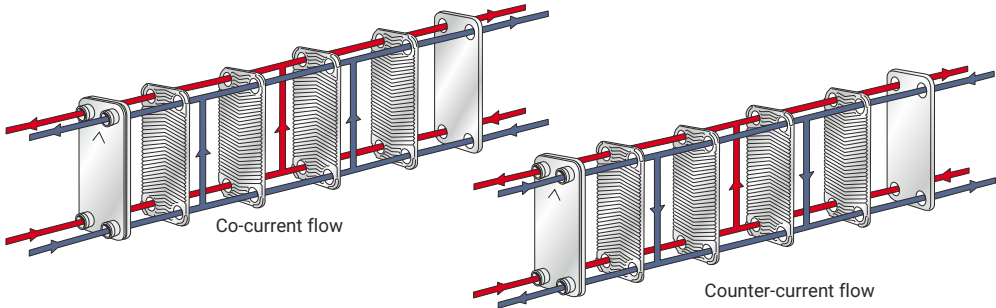
80		Dimension	119×526 mm 4.69×20.712 inch	Weight	2.62±0.164 (0.186)×NoP kg 5.78±0.362×NoP lb	Max. NoP	140
80AS		Dimension	119×526 mm 4.69×20.71 inch	Weight	2.09±0.164 (0.186)×NoP kg 4.61±0.362×NoP lb	Max. NoP	140
120T		Dimension	243×525 mm 9.50×20.65 inch	Weight	10±0.374×NoP kg 22±0.8×NoP lb	Max. NoP	250
250AS		Dimension	202×620 mm 7.95×24.41 inch	Weight	8.40±0.337×NoP kg 18.52±0.743×NoP lb	Max. NoP	300
D300		Dimension	243×525 mm 9.57×20.67 inch	Weight	7.75±0.331×NoP kg 17.08±0.730×NoP lb	Max NoP	346
400T		Dimension	304×694 mm 11.98×27.34 inch	Weight	17±0.6 (0.63)×NoP kg 37.5±1.3×NoP lb	Max. NoP	300
D400		Dimension	304×694 mm 11.98×27.34 inch	Weight	15.4±0.58×NoP kg 34±1.3×NoP lb	Max. NoP	282
500T		Dimension	304×980 mm 11.98×38.59 inch	Weight	21±0.96×NoP kg 43.6±2.1×NoP lb	Max. NoP	300
D500		Dimension	304×980 mm 11.98×38.59 inch	Weight	20±0.93 (0.96)×NoP kg 44.1±2.1×NoP lb	Max. NoP	294

The concept

In principle, a BPHE 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.



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.



There are several different versions of the channel plate packages. The right illustration is just one example.

