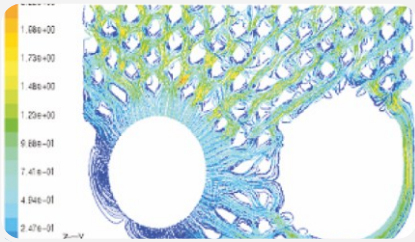


A step towards a more efficient refrigeration industry

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.

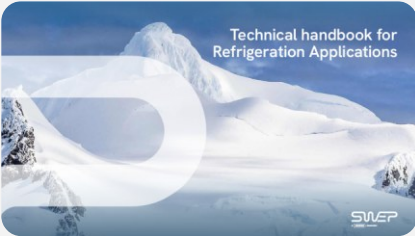
By using standardized components, we can cost-effectively mass customize the product precisely to your needs. We can always offer you more, thanks to our complete program of effective aids. SSP, the SWEP Software package that we have developed for dimensioning exchangers and dynamic drawing generation, 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.



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.

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 1,100 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.

swepgroup.com

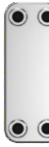


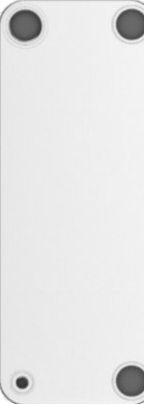
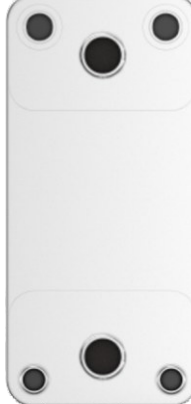
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Brazed plate heat exchangers for refrigeration applications

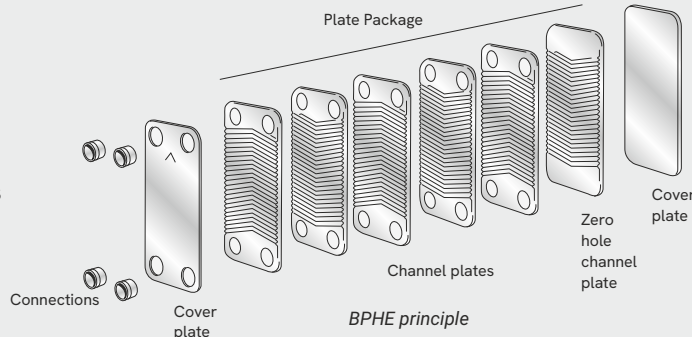
A complete range of dedicated BPHEs for refrigeration applications

														
X3T	X4T	5T	X8T	8T	10T	12	16	25T	30	35T	60	80	80AS	85
Dimension 54,4×119,5 mm 2.14×4.7 inch	Dimension 75×192,6 mm 2.95×7.58 inch	Dimension 76×193 mm 2.99×7.59 inch	Dimension 73×315 mm 2.87×12.4 inch	Dimension 72×310 mm 2.84×12.20 inch	Dimension 117/119×287/289 mm 4.61/4.68×11.31/11.37 inch	Dimension 117×287 mm 4.61×11.31 inch	Dimension 119×376 mm 4.69×14.8 inch	Dimension 117/119×524/526 mm 4.61/4.68×20.65/20.71 inch	Dimension 243×243 mm 9.59×9.59 inch	Dimension 243×393 mm 9.57×15.48 inch	Dimension 364×374 mm 14.34×14.74 inch	Dimension 119×526 mm 4.69×20.71 inch	Dimension 119×526 mm 4.69×20.71 inch	Dimension 119×526 mm 4.69×20.71 inch
Weight 0.11+0.016×(NoP-2) kg 0.24+0.035×NoP lb	Weight 0.26+0.040×NoP kg 0.58+0.089×NoP lb	Weight 0.6+0.044×NoP kg 1.4+0.1×NoP lb	Weight 0.53+0.075×NoP kg 1.16+0.165×NoP lb	Weight 0.9+0.07×NoP kg 2+0.2×NoP lb	Weight 1.4+0.09×NoP kg 3.1+0.2×NoP lb	Weight 1.7+0.116×NoP kg 3.2+0.3×NoP lb	Weight 1.5+0.114×NoP kg 3.8+0.3×NoP lb	Weight 2.1+0.17×NoP kg 4.6+0.4×NoP lb	Weight 5.88+0.180×NoP kg 12.96+0.397×NoP lb	Weight 6.7+0.336×NoP kg 15.4+0.7×NoP lb	Weight 13+0.47×NoP kg 28.7+1×NoP lb	Weight 2,62+0,164 (0.186)×NoP kg 5.78+0.362×NoP lb	Weight 2,09+0.164 (0.186)×NoP kg 4.61+0.362×NoP lb	Weight 2,09+0.137×NoP kg 4.60+0.301×NoP lb
Max. NoP 60	Max. NoP 100	Max. NoP 60	Max. NoP 60	Max. NoP 60	Max. NoP 140	Max. NoP 140	Max. NoP 140	Max. NoP 140	Max. NoP 300	Max. NoP 250	Max. NoP 300	Max. NoP 140	Max. NoP 140	Max. NoP 160

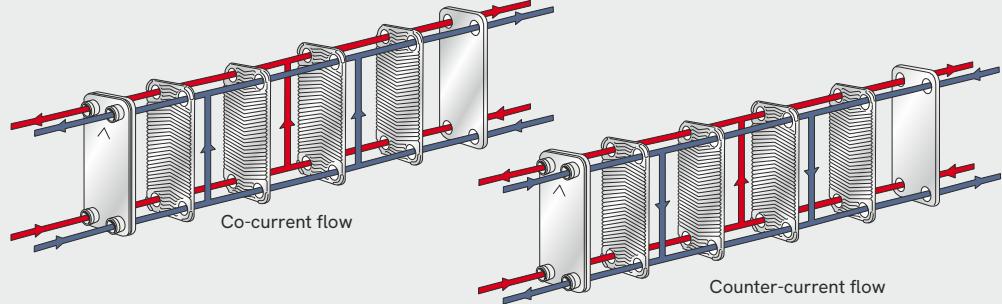
											
85AS	120T	D190	FI190	200T	250AS	D300	400T	D400	500T	D500	D650
Dimension 119×526 mm 4.69×20.71 inch	Dimension 243×525 mm 9.50×20.65 inch	Dimension 202×525 mm 7.95×20.67 inch	Dimension 202×524 mm 7.95×20.65 inch	Dimension 243×525 mm 9.57×20.67 inch	Dimension 202×620 mm 7.95×24.41 inch	Dimension 243×525 mm 9.57×20.67 inch	Dimension 304×694 mm 11.98×27.34 inch	Dimension 304×694 mm 11.98×27.34 inch	Dimension 304×980 mm 11.98×38.59 inch	Dimension 304×980 mm 11.98×38.59 inch	Dimension 365,6×744,6 mm 14.39×29.31 inch
Weight 2.09+0.137×NoP kg 4.60+0.301×NoP lb	Weight 10+0.374×NoP kg 22+0.8×NoP lb	Weight 6.19+0.285×NoP kg 13.64+0.628×NoP lb	Weight 6.46+0.289×NoP kg 14.22+0.637×NoP lb	Weight 20+0.400×NoP kg 45.5+0.882×NoP lb	Weight 8.40+0.337×NoP kg 18.52+0.743×NoP lb	Weight 7.75+0.331×NoP kg 17.08+0.730×NoP lb	Weight 17+0.6 (0.63)×NoP kg 37.5+1.3×NoP lb	Weight 15.4+0.58×NoP kg 34+1.3×NoP lb	Weight 21+0.96×NoP kg 43.6+2.1×NoP lb	Weight 20+0.93 (0.96)×NoP kg 44.1+2.1×NoP lb	Weight 14,6+0.939×NoP kg 32.2+2.070×NoP lb
Max. NoP 140	Max. NoP 250	Max. NoP 190	Max. NoP 140	Max. NoP 250	Max. NoP 300	Max. NoP 346	Max. NoP 300	Max. NoP 282	Max. NoP 300	Max. NoP 294	Max. NoP 346

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.

