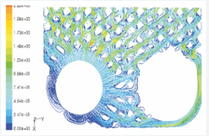
Experience more efficient heat transfer solutions in your District energy application

The list of applications that operate more efficiently with compact brazed heat exchangers, BPHEs, is a long one: boilers, steam, snow melting, floor heating, solar panels, cooling towers, district heating, district cooling and sanitary water applications. New applications are added constantly, and today you will find SWEP BPHEs 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 BPHEs 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 BPHEs and more efficient heat transfer 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 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.

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 district energy applications

SWEP
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A complete range of dedicated BPHEs for District energy applications

E5AS

Dimension	73×192 mm 2.87×7.56 inch
Weight	0.29+0.044×(NoP-2) kg 0.63+0.097×(NoP-2) lb
Max NoP	40

E5T

Dimension	73×192 mm 2.87×7.56 inch
Weight	0.29+0.044×(NoP-2) kg 0.63+0.097×(NoP-2) lb
Max NoP	40

5T

Dimension	72.5×187.5 mm 2.85×7.38 inch
Weight	0.30+0.040×NoP kg 0.67+0.088×NoP lb
Max NoP	60

E8AS

Dimension	74×315 mm 2.91×12.4 inch
Weight	0.45+0.059×(NoP-2) kg 1.00+0.130×(NoP-2) lb
Max NoP	42

E8LAS

Dimension	74×316 mm 2.91×12.44 inch
Weight	0.42+0.059×(NoP-2) kg 0.93+0.130×(NoP-2) lb
Max NoP	70

E8T

Dimension	74×315 mm 2.91×12.4 inch
Weight	0.45+0.059×(NoP-2) kg 1.00+0.130×(NoP-2) lb
Max NoP	42

B8T

Dimension	76×317 mm 2.99×12.48 inch
Weight	0.85+0.075×(NoP-2) kg 1.88+0.165×(NoP-2) lb
Max NoP	60

B8LAS

Dimension	76.2×317.7 mm 3×12.51 inch
Weight	0.84+0.059×NoP kg 1.85+0.130×NoP lb
Max NoP	70

B10T

Dimension	119×289 mm 4.68×11.37 inch
Weight	1.14+0.096×NoP kg 2.51+0.21×NoP lb
Max NoP	140

B12

Dimension	117×287 mm 4.60×11.29 inch
Weight	1.17×0.120 ×NoP kg 2.58×0.26×NoP lb
Max NoP	140

B15T

Dimension	72×468 mm 2.83×18.42 inch
Weight	1.25×0.104 ×NoP kg 2.76×0.229×NoP lb
Max NoP	60

B16

Dimension	119×376 mm 4.69×14.8 inch
Weight	1.48+0.120×NoP kg 3.25+0.265×NoP lb
Max NoP	140

B16DW

Dimension	119.5×377 mm 4.70×14.85 inch
Weight	1.62+0.22×NoP kg 3.57+0.48×NoP lb
Max NoP	140

B35T

Dimension	243×393 mm 9.57×15.47 inch
Weight	15.8+0.256×NoP kg 34.7+0.564×NoP lb
Max NoP	260

B35TDW

Dimension	243×393 mm 9.57×15.47 inch
Weight	12.3+0.494×NoP kg 27.1+1.089×NoP lb
Max NoP	260

B28

Dimension	119×526 mm 4.69×20.71 inch
Weight	2.09+0.164×NoP kg 4.61+0.362×NoP lb
Max NoP	140

B80

Dimension	119×526 mm 4.69×20.71 inch
Weight	2.09+0.164×NoP kg 4.61+0.362×NoP lb
Max NoP	140

B80AS

Dimension	119×526 mm 4.69×20.71 inch
Weight	2.09+0.164×NoP kg 4.61+0.362×NoP lb
Max NoP	140

B85

Dimension	119×526 mm 4.69×20.71 inch
Weight	2.09+0.137×NoP kg 4.61+0.301×NoP lb
Max NoP	160

B86

Dimension	119×526 mm 4.69×20.71 inch
Weight	2.09+0.137×NoP kg 4.61+0.301×NoP lb
Max NoP	160

B220

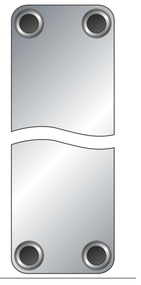
Dimension	202×524 mm 7.95×20.63 inch
Weight	12.1+0.321×NoP kg 26.7+0.708×NoP lb
Max NoP	300

B320HT

Dimension	243×525 mm 9.57×20.67 inch
Weight	9.61+0.389×NoP kg 21.19+0.858×NoP lb
Max NoP	300

B320LT

Dimension	243×525 mm 9.57×20.67 inch
Weight	13.1+0.432×NoP kg 28.9+0.952×NoP lb
Max NoP	260

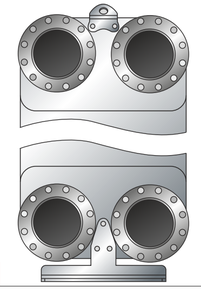


B427

Dimension	304×694 mm 11.97×27.32 inch
Weight	21.9+0.590×NoP kg 48.3+1.301×NoP lb
Max NoP	420

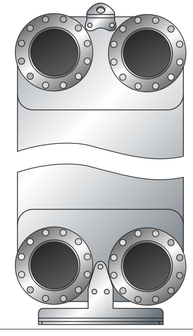
B439

Dimension	304×979 mm 11.96×38.54 inch
Weight	15.7+0.890×NoP kg 34.7+1.962×NoP lb
Max NoP	420



B633

Dimension	537×830 mm 21.14×32.68 inch
Weight	80.3+1.224×NoP kg 177.1+2.698×NoP lb
Max NoP	320

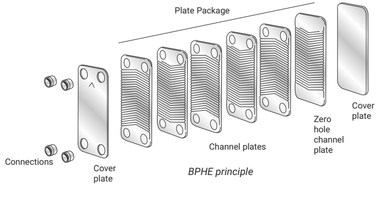


B649

Dimension	537×1232 mm 21.14×48.50 inch
Weight	101.27+1.941xNP 223.2+4.27×NoP lb
Max NoP	420

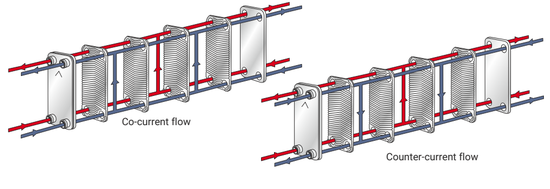
The concept

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.



BPHE principle

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.