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 Refrigerant 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.

A step towards a more efficient refrigerant 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 refrigerant market. Alongside the increase in the areas of use, there is also a rapid technological changeover to modern high-efficiency SWEP BPHEs where shell-andtubes 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 refrigerant 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 Refrigerant Handbook, the complete handbook for BPHE refrigerant applications? Contact one of our expert heat transfer consultants today to find out more about SWEP BPHEs and energy-saving solutions.

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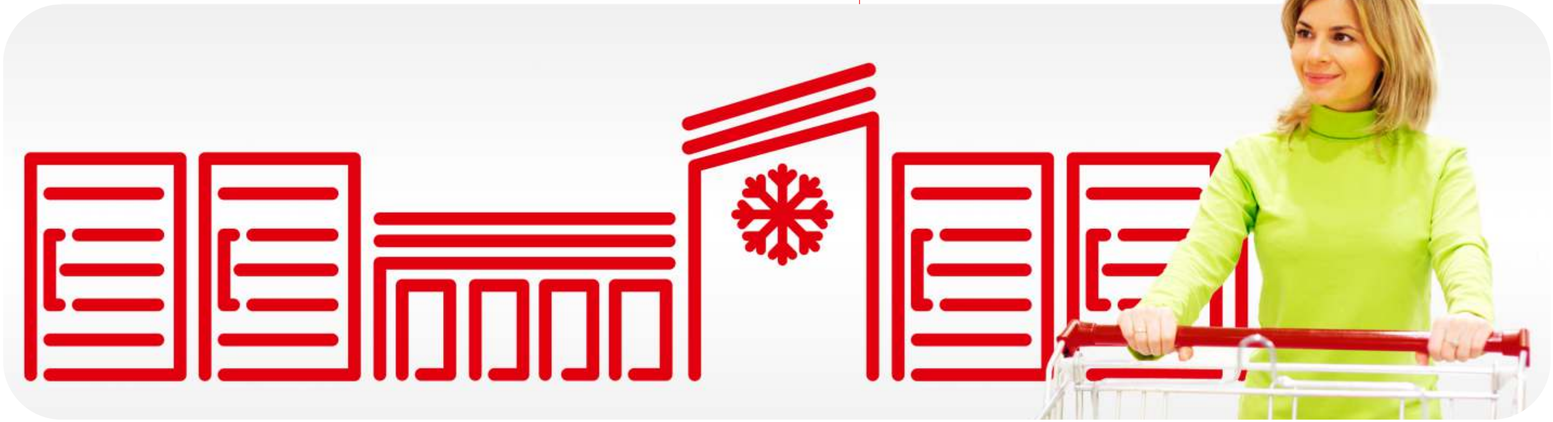
Brazed plate heat exchangers



For refrigerant applications

SWEP is the world's leading supplier of compact brazed heat exchangers (BPHEs). 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 represen-tation 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.

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A complete range of dedicated BPHEs for refrigerant applications

B5T

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

B8T

Dimension	72×310 mm 2.84×12.20 inch
Weight	0.9+0.07×NoP kg 2+0.2×NoP lb
Max. NoP	60

B10T
V10T

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

B12

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

B15

Dimension	72×465 mm 2.84×18.32 inch
Weight	1.3+0.106×NoP kg 2.9+0.2×NoP lb
Max. NoP	60

B25T
V25T

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

B35
V35

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

B50

Dimension	243×525 mm 9.57×20.62 inch
Weight	13.8+0.43×NoP kg 34.2+0.9×NoP lb
Max. NoP	280

B57

Dimension	243×693 mm 9.57×27.30 inch
Weight	16+0.565×NoP kg 35.3+1.2×NoP lb
Max. NoP	280

B60

Dimension	364×374 mm 14.34×14.74 inch
Weight	13+0.47×NoP kg 28.7+1×NoP lb
Max. NoP	300

B80
V80
P80
Q80

Dimension	119×526 mm 4.69×20.72 inch
Weight	2.1+0.17 (0.186)×NoP kg 4.6+0.4×NoP lb
Max. NoP	140

B120T
P120T
V120T

Dimension	243×525 mm 9.50×20.65 inch
Weight	10+0.374×NoP kg 22+0.8×NoP lb
Max. NoP	250

B200T
V200T
P200T

Dimension	243×525 mm 9.50×20.65 inch
Weight	10.7+0.37×NoP kg 23.6+0.8×NoP lb
Max. NoP	250

DB200
DV200
DP200

Dimension	243×525 mm 9.57×20.69 inch
Weight	10.9+0.42×NoP kg 24+0.9×NoP lb
Max. NoP	202

B400T
V400T
P400T
S400T
VH400T

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

DB400
DS400
DV400
DP400

Dimension	304×694 mm 11.98×27.34 inch
Weight	15.4+0.58×NoP kg 34+1.3×NoP lb
Max. NoP	282

B500T
S500T
VH500T

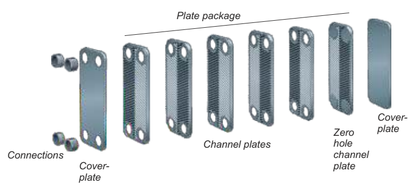
Dimension	304×980 mm 11.98×38.59 inch
Weight	21+0.96×NoP kg 43.6+2.1×NoP lb
Max. NoP	300

DB500
DS500

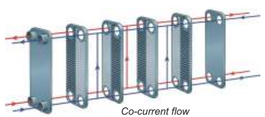
Dimension	304×980 mm 11.98×38.59 inch
Weight	20+0.93 (0.96)×NoP kg 44.1+2.1×NoP lb
Max. NoP	294

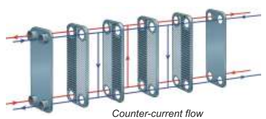
The concept

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.

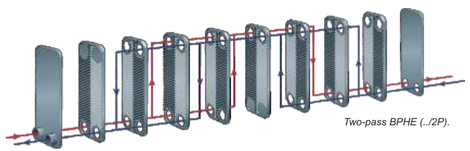


The fluids can pass through the heat exchanger in different ways. For parallel flow BPHEs, there are two different flow configurations: cocurrent or counter-current.


Co-current flow


Counter-current flow

There are several different versions of the channel plate packages.


Two-pass BPHE (../2P).