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.

Experience more efficient heat transfer solutions in your heating application

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.

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 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.

92157-9530-EN-R2 Printed on 100% recycled paper SWEP is a ISO 14001 Certified company.

Brazed plate heat exchangers

for Heating 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 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.

swep.net

SWEP
A DOVER COMPANY

SWEP
A DOVER COMPANY

A complete range of dedicated BPHEs for heating applications

E5T

Dimension	73×192 mm 2.87×7.55 inch
Weight	0.33+0.044×(NoP-2) kg 0.7+1×NoP lb
Max NoP	60

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

E8T

Dimension	73×315 mm 2.87×12.40 inch
Weight	0.54+0.7×(NoP-2) kg 1.2+0.2×NoP lb
Max NoP	40

B8T

Dimension	76×317 mm 2.99×12.48 inch
Weight	0.9+0.07×NoP kg 2+0.2×NoP lb
Max NoP	60

B10T

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

B16

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

B16DW

Dimension	119×377 mm 4.69×14.85 inch
Weight	1.6+0.23×NoP kg 3.5+0.5×NoP lb
Max NoP	140

B25T

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

B28

Dimension	119×526 mm 4.69×20.72 inch
Weight	2.1+0.17×NoP kg 5+0.4×NoP lb
Max NoP	140

B35

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 9.57×20.67 inch
Weight	13.8+0.43xNoP kg 34.2+0.9xNoP lb
Max NoP	280

B56

Dimension	243×525 mm 9.57×20.69 inch
Weight	16+0.43×NoP kg 35.3+1×NoP lb
Max NoP	250

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

B65

Dimension	363×864 mm 14.29×34.01 inch
Weight	42.757+1.03xNP kg 94.263+2.271xNP lb
Max NoP	360

B120T

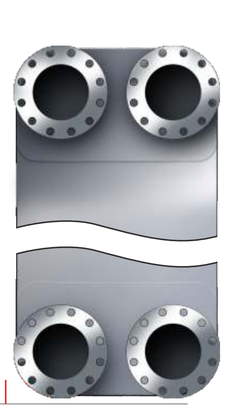
Dimension	243×525 mm 9.50×20.65 inch
Weight	10+0.374×NoP kg 22+0.8×NoP lb
Max NoP	250

B427

Dimension	304×694 mm 11.97×27.32 inch
Weight	29+0.62×NoP kg 63.9+1.4×NoP lb
Max NoP	280

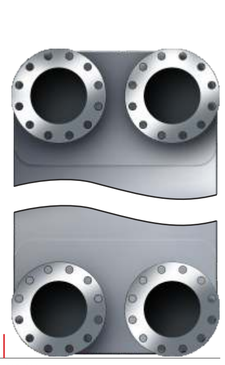
B439

Dimension	304×979 mm 11.98×38.57 inch
Weight	21+0.93×NoP kg 46.3+2.1×NoP lb
Max NoP	360



B649

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

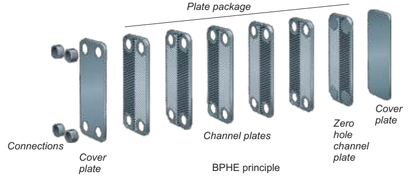


B633

Dimension	537×830 mm 21.14×32.67 inch
Weight	82.5+1.224×NoP kg 181.8+2.69×NoP lb
Max NoP	344

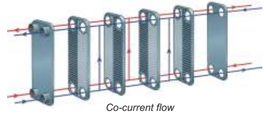
The concept

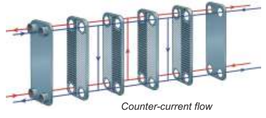
In principle, a BPHE is constructed as a plate package of corrugated channel plates between front and rear cover-plate packages. The cover plate packages consist of sealing plates, blind rings and cover plates. During the vacuum-brazing process, a brazed joint is formed at every contact point between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



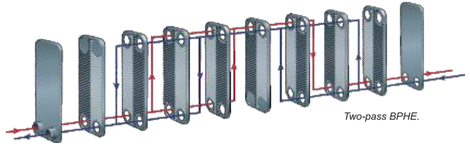
BPHE principle

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.


Co-current flow


Counter-current flow

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


Two-pass BPHE.