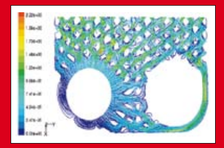


Simulation is one of the most important stages in the development of new and existing CBEs. The ability to evaluate different plate patterns by simulating flow rate and directions offers great opportunities for improved functionality.

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

Our "Technical Handbook about Industrial 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.

Experience more efficient heat transfer solutions in your industrial application

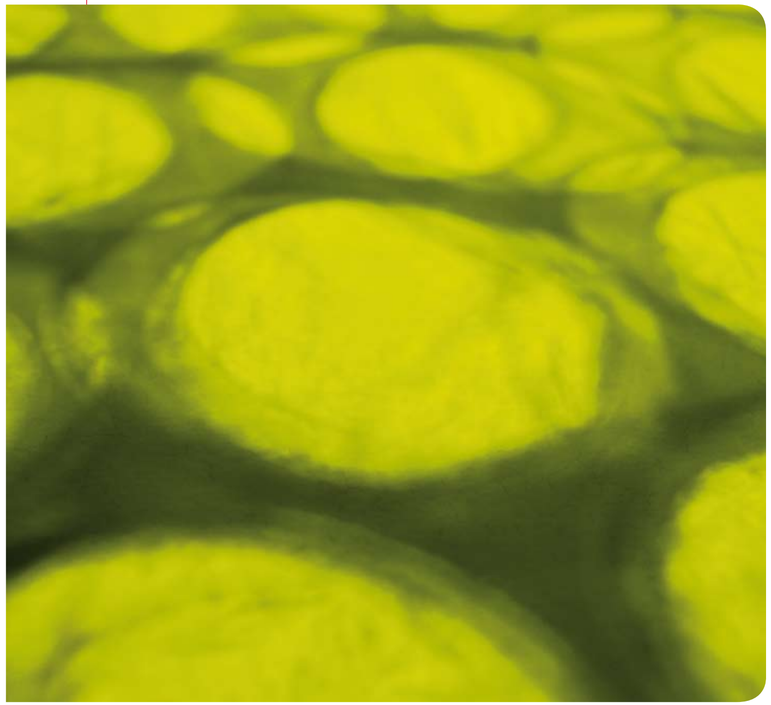
The list of applications that operate more efficiently with compact brazed heat exchangers, CBEs, is a long one: boilers, steam, snow melting, floor heating, solar panels, cooling towers, district heating and sanitary water applications. New applications are added constantly, and today you will find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

SWEP
A DOVER COMPANY

SWEP is the world's leading supplier of compact brazed heat exchangers (CBEs). 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.

www.swep.net

Compact brazed heat exchangers
For industrial applications



92156-9530-R3

SWEP
A DOVER COMPANY

A complete range of dedicated CBEs for industrial applications

B5

Dimension	72 x 187 mm 2.84 x 7.45 in
Weight	0.6+0.044xNoP kg 1.4+0.1x NoP lb
Max NoP	60

B8

Dimension	72 x 310 mm 2.84 x 12.20 in
Weight	0.9+0.07xNoP kg 2+0.2xNoP lb
Max NoP	60

B10T

Dimension	117/119 x 287/289 mm 4.61/4.68 x 11.31/11.37 in
Weight	1.4+0.09xNoP kg 3.1+0.2xNoP lb
Max NoP	140

B12

Dimension	117 x 287mm 4.61 x 11.31 in
Weight	1.7+0.116xNoP kg 3.2+0.3xNoP lb
Max NoP	140

B15

Dimension	72 x 465mm 2.84 x 18.32 in
Weight	1.3+0.106xNoP kg 2.9+0.2xNoP lb
Max NoP	60

B16

Dimension	119 x 376mm 4.69 x 14.8 in
Weight	1.5+0.114xNoP kg 3.8+0.3xNoP lb
Max NoP	140

B25T

Dimension	117/119 x 524/526mm 4.61/4.68 x 20.65/20.71 in
Weight	2.1+0.17xNoP kg 4.6+0.4xNoP lb
Max NoP	140

B28

Dimension	119 x 526mm 4.69 x 20.72 in
Weight	2.1+0.17xNoP kg 5+0.4xNoP lb
Max NoP	140

B35

Dimension	243 x 393mm 9.57 x 15.48 in
Weight	6.7+0.336xNoP kg 15.4+0.7xNoP lb
Max NoP	250

B50

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

B56

Dimension	243 x 525mm 9.57 x 20.69 in
Weight	16+0.431xNoP kg 35.3+1xNoP lb
Max NoP	250

B57

Dimension	243 x 693 mm 9.57 x 27.30 in
Weight	16+0.565xNoP kg 35.3+1.2xNoP lb
Max NoP	280

B60

Dimension	364 x 374 mm 14.34 x 14.74 in
Weight	13+0.47xNoP kg 28.7+1xNoP lb
Max NoP	300

B120T

Dimension	243 x 525mm 9.50 x 20.65 in
Weight	10+0.374xNoP kg 22+0.8xNoP lb
Max NoP	250

DB200

Dimension	243 x 525 mm 9.57 x 20.69 in
Weight	10,9+0,37xNoP kg 24+0,8xNoP lb
Max NoP	202

DB400

Dimension	304 x 694 mm 11.98 x 27.34 in
Weight	15,4+0,58xNoP kg 34+1.3xNoP lb
Max NoP	282

B427

Dimension	304 x 694mm 11.97 x 27.32 in
Weight	29+0,62xNoP kg 63.9+1.4xNoP lb
Max NoP	280

B439

Dimension	304 X 979mm 38.57 x 11.98 in
Weight	21+0,93xNoP kg 46.3+2.1xNoP lb
Max NoP	360

The concept

In principle, a CBE 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.

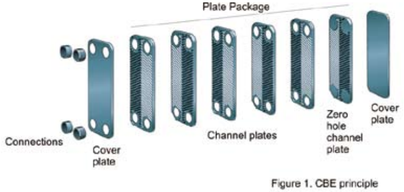
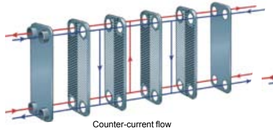
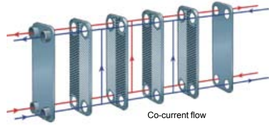


Figure 1. CBE principle

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





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

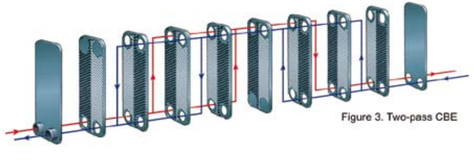


Figure 3. Two-pass CBE