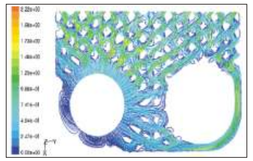
EXPERIENCE MORE EFFICIENT HEAT TRANSFER SOLUTIONS IN YOUR HEATING APPLICATION

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 change-over 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 in-depth 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.



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 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.

SWEP is a rapidly growing international company in the heat transfer field. Decades of creative work, leading-edge competence and committed SWEP people have resulted in the world's most effective offer of products. World-leading within its field, SWEP constantly advances the front line in order to be able to use the very latest technology. SWEP's aim is constantly to offer its customers excellent performance, economy and service. Today, SWEP is close to its customers, with representation in more than 50 countries and its own dedicated salesforce in more than 20 countries. With highly efficient production units in Sweden, Switzerland, USA and Malaysia it is possible to serve customers all over the world. The company is part of the global Dover Corporation.

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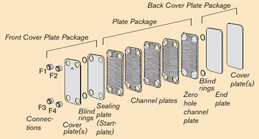
COMPACT BRAZED HEAT EXCHANGERS

FOR HEATING APPLICATIONS

A COMPLETE RANGE OF DEDICATED CBEs FOR HEATING APPLICATIONS

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.



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.

Counter-current flow

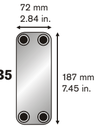
Co-current flow

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

Two-stage CBE (..2S).

Max. heat loads are based on applicable optimal water-to-water applications.

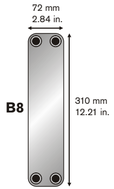
B5



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
16	¾"	4	18	0.70	7.5

0 20 40 60 80 100 120 kW
0 68 137 205 273 342 410 kBTU/h

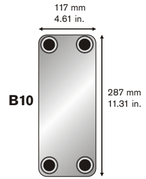
B8



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
16	¾"	4	18	1.4	15

0 20 40 60 80 100 120 kW
0 68 137 205 273 342 410 kBTU/h

B10



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
24	1"	12	53	3.8	41

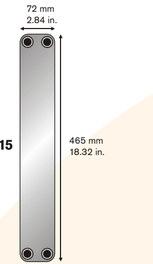
0 60 120 180 240 300 360 kW
0 205 410 615 820 1025 1230 kBTU/h

B12

Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
33	1¼"	22	97	3.2	34

0 60 120 180 240 300 360 kW
0 205 410 615 820 1025 1230 kBTU/h

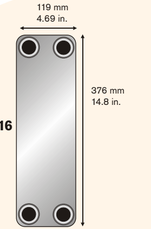
B15



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
16	¾"	4	18	2.2	24

0 60 120 180 240 300 360 kW
0 205 410 615 820 1025 1230 kBTU/h

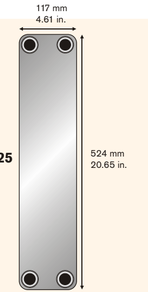
B16



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
33	1¼"	22	97	6.2	67

0 100 200 300 400 500 600 kW
0 342 683 1025 1366 1708 2049 kBTU/h

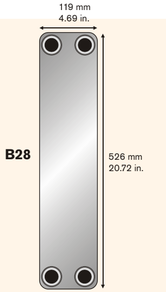
B25



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
24	1"	12	53	7.6	82

0 100 200 300 400 500 600 kW
0 342 683 1025 1366 1708 2049 kBTU/h

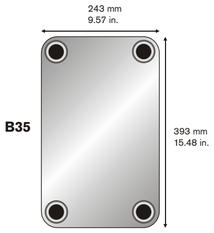
B28



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
33	1¼"	22	97	9.0	97

0 150 300 450 600 750 900 kW
0 512 1024 1536 2049 2561 3074 kBTU/h

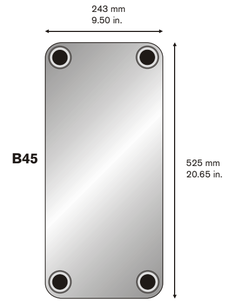
B35



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
35	1½"	35	154	23	250

0 500 1000 2000 4000 6000 8000 kW
0 1706 3412 6824 1.3648 2.0472 2.7297 kBTU/h

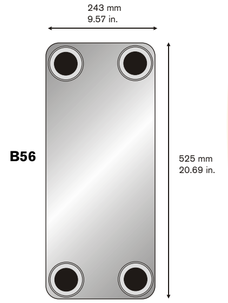
B45



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
39	1½"	35	154	32	340

0 500 1000 2000 4000 6000 8000 kW
0 1706 3412 6824 1.3648 2.0472 2.7297 kBTU/h

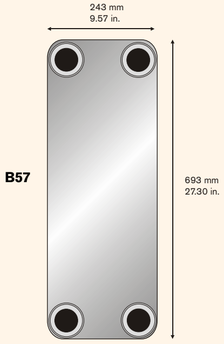
B56



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
70	2¾"	78	340	27	290

0 500 1000 2000 4000 6000 8000 kW
0 1706 3412 6824 10364 20047 20729 kBTU/h

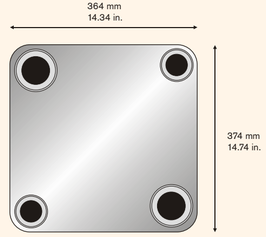
B57



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
70	2¾"	78	340	46	500

0 500 1000 2000 4000 6000 8000 kW
0 1706 3412 6824 10364 20047 20729 kBTU/h

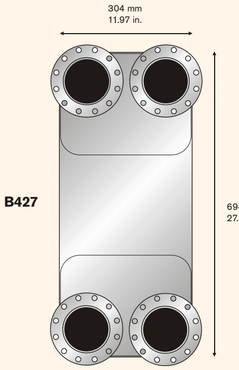
B60



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
70/55 2¾"/2"		78	340	34	370

0 500 1000 2000 4000 6000 8000 kW
0 1706 3412 6824 10364 20047 20729 kBTU/h

B427



Port diameter		Max flow rate		Max heat transfer area	
mm	inch	m³/h	usg/min	m²	ft²
100	4"	160	704	55	592

0 500 1000 2000 4000 6000 8000 kW
0 1706 3412 6824 10364 20047 20729 kBTU/h