

Unique models for CO₂ (R744) now available

Our product range now meets the ever-increasing demand for compact and efficient heat exchangers using CO₂ in transcritical boosters. As the market leaders, we can build in leading-edge technologies that enable us to supply products like our unique B4T, B18, B185 and B285 models. These cover the most common capacity ranges for tap water production, space heating, and supermarket and hypermarket refrigeration. Robust, yet light and compact, they offer design pressures up to 140 bar without needing a bulky, heavy frame.



Easy to buy heat exchangers

The widest choice, from the market leader

- Efficient, rugged, reliable
- Smart choice for new installations
- Simple replacement for competitors' products
- High availability

High availability

Our global logistics system ensures typical delivery times of just 1-2 days. Many SWEP dealers can also supply popular models ex-stock on request.

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 four decades, the SWEP brand has become synonymous with challenging efficiency.

SWEP is a world-leading supplier of brazed plate heat exchangers and prefabricated energy transfer stations for HVAC and industrial applications. With over 1,100 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.



www.swep.net

CHALLENGE EFFICIENCY



Brazed plate heat exchangers for refrigeration applications



Buy from the market leader

Founded in 1983, SWEP has always focused on developing the world's superior brazed plate heat exchanger (BPHE) product line.

Today you will find our BPHEs in virtually every type of application in the global refrigerant market. We are proud of how our modern, high-efficiency BPHEs are displacing older technologies such as shell-and-tube.

Extensive research and development including computational fluid dynamics (CFD) enables us to offer the market's most comprehensive range of condensers, desuperheaters, evaporators, and sub-coolers for all types of refrigerant applications.



Easy to choose the heat exchanger you need

These tables of dimensions and specifications will help you choose the right heat exchanger for your application.

Need advice?

Your SWEP dealer has access to our very latest selection tools and data. Just ask, whether you are buying for a new installation or as a replacement.

Applications for CO₂ (R744)

Space heating

Capacity, kW		Heat exchanger	
R744(1)		SWEP Unit	Article No
7,5		B4Tx30	19222-030
17		B4Tx60	19222-060
27		B4Tx90	19222-090
Connections: ISO-G 3/4" & S16			
35		B18x60	15702-060
48		B18x80	15702-080
60		B18x100	15702-100
Connections: 2xS28.58 & W35.1+2x1 1/2"			
82		B185x60	16530-060
110		B185x80	16530-080
170		B185x120	16530-120
Connections: 2x1 1/2" W42 & S35,1 + 2x2"			
125		B285x60	N/A
260		B285x120	N/A
400		B285x180	N/A
Connections: 2xW48,4 & S 42U + 2x2 1/2"			

Tap water production

Capacity, kW		Heat exchanger	
R744(1)		SWEP Unit	Article No
8,5		B4Tx30	19222-030
19		B4Tx60	19222-060
30		B4Tx90	19222-090
Connections: ISO-G 3/4" & S16			
39		B18x60	15702-060
53		B18x80	15702-080
67		B18x100	15702-100
Connections: 2xS28.58 & W35.1+2x1 1/2"			
90		B185x60	16530-060
122		B185x80	16530-080
190		B185x120	16530-120
Connections: 2x1 1/2" W42 & S35,1 + 2x2"			
135		B285x60	N/A
280		B285x120	N/A
430		B285x180	N/A
Connections: 2x1 1/2" W42 & S35,1 + 2x2"			
Conditions			
(1)	- R744 (CO ₂): 90 bar, T _{in} : 95°C, T _{out} : 30°C - MPG 30%, T _{in} : 25°C, T _{out} : 45°C		
(2)	- R744 (CO ₂): 90 bar, T _{in} : 95°C, T _{out} : 20°C - Water T _{in} : 10°C, T _{out} : 55°C		
(3)	- Water temperature: 12/7°C - Temperature liquid refrigerant before expansion: 43°C - Evaporating temperature: 3.5°C - Superheat: 5K		

Evaporators for
R134a, R404A, R410A

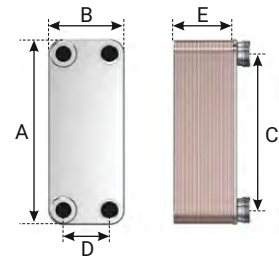
Capacity, kW				Heat exchanger	
R134a/ R1234yf (3)	R404A/ R452a (3)	R404A/ R452a (4)	R410A/ R454B(3)	SWEP Unit	Article No
0.3/0.3	0.5/0.5	0.2/0.2	0.3/0.3	B5T×10	14626-010
0.6/0.6	0.8/0.8	0.3/0.3	0.6/0.6	B5T×16	14626-016
0.8/0.8	1.1/1	0.4/0.4	0.8/0.8	B5T×20	14626-020
1.3/1.2	1.7/1.6	0.7/0.7	1.2/1.1	B5T×30	14626-030
Connections: 4 × ISO G 3/4" & Solder 16U					
0.7/0.7	1.4/1.3	0.8/0.8	1.4/1.3	B8T×10	14361-010
1.1/1	2.2/2.1	1.2/1.1	2.1/2	B8T×14	14361-014
1.7/1.6	3.2/3	2/1.9	3.2/3	B8T×20	14361-020
2/1.9	4/3.8	2.5/2.4	3.9/3.7	B8T×24	14361-024
2.6/2.5	4.9/4.7	3/2.9	5.0/4.8	B8T×30	14361-030
Connections: 4 × ISO G 3/4" & Solder 16U					
2.3/2.2	2.9/2.8	1.5/1.4	2.3/2.2	B10T×14	15371-014
3.4/3.2	4.4/4.2	2/1.9	3.5/3.3	B10T×20	15371-020
4.6/4.4	5.9/5.6	3/2.9	4.7/4.5	B10T×26	15371-026
5.3/5	6.9/6.6	4/3.8	5.5/5.2	B10T×30	15371-030
Connections: 4 × ISO G 1" & Solder 22U					
4/3.8	5/4.8	3/2.9	6/5.7	B25T×10	14131-010
7/6.7	10/9.5	6/5.7	11/10.5	B25T×16	14131-016
9/8.6	12/11.4	7/6.7	14/13.3	B25T×20	14131-020
12/11.4	16/15.2	10/9.5	18/17.1	B25T×26	14131-026
14/13.3	19/18.1	12/11.4	21/20	B25T×30	14131-030
Connections: 4 × ISO G 1" & Solder 22U					
18/17.1	25/23.8	15/14.3	29/27.6	V25T×40	15365-040
22/20.9	31/29.5	18.5/17.6	36/34.2	V25T×50	15365-050
Connections: Solder 22U + Solder 12.8U + 2 × ISO G 1" & Solder 22U					
34/32.3	46/43.7	28/26.6	48/45.6	V120T×40	14172-040
43/40.9	57/54.2	35/33.3	61/58	V120T×50	14172-050
50/47.5	68/64.6	41/39	73/69.4	V120T×60	14172-060
57/54.2	79/75.1	48/45.6	84/79.8	V120T×70	14172-070
64/60.8	88/83.6	54/51.3	96/91.2	V120T×80	14172-080
Connections: Solder 42U + Solder 22U + 2x ISO G 1½" & Solder 35.1					

Conditions	
(4)	- Propylene glycol 30% temperature: -4/-8°C - Temperature liquid refrigerant before expansion: 43°C - Evaporating temperature: -12°C - Superheat: 5K
(5)	- Water temperature: 30/35°C - Refrigerant inlet temperature: 90°C - Condensing temperature: 38°C - Sub-cooling: 2K

Condensers for
R134a, R404A, R410A

Capacity, kW			Heat exchanger	
R134a/ R1234yf (3)	R404A/ R452a (3)	R410A /R454B (3)	SWEP Unit	Article No
0.6/0.7	0.5/0.6	0.7/0.8	B5T×10	14626-010
1/1.2	0.9/1	1.2/1.4	B5T×16	14626-016
1.3/1.5	1.2/1.4	1.5/1.7	B5T×20	14626-020
2.1/2.4	1.8/2.1	2.5/2.9	B5T×30	14626-030
2.9/3.3	2.5/2.9	3.4/3.9	B5T×40	14626-040
Connections: 4 × ISO G 3/4" & Solder 16U				
1/1.2	1/1.2	1.5/1.7	B8T×10	14361-010
1.5/1.7	1.5/1.7	2.3/2.6	B8T×14	14361-014
2.3/2.6	2.2/2.5	3.5/4	B8T×20	14361-020
2.8/3.2	2.7/3.1	4.4/5.1	B8T×24	14361-024
3.6/4.1	3.4/3.9	5.6/6.4	B8T×30	14361-030
4.9/5.6	4.7/5.4	7.6/8.7	B8T×40	14361-040
Connections: 4 × ISO G 3/4" & Solder 16U				
2/2.3	2/2.3	3/3.5	B10T×14	15371-014
4/4.6	3/3.5	4/4.6	B10T×20	15371-020
5/5.8	4/4.6	6/6.9	B10T×26	15371-026
6/6.9	5/5.8	7/8.1	B10T×30	15371-030
8/9.2	7/8.1	9/10.4	B10T×40	15371-040
10/11.5	8/9.2	10/11.5	B10T×50	15371-050
12/13.8	10/11.5	13/15	B10T×60	15371-060
14/16.1	12/13.8	15/17.3	B10T×70	15371-070
Connections: 4 × ISO G 1" & Solder 22U				
4/4.6	5/5.8	6/6.9	B25T×10	14131-010
7/8.1	8/9.2	10/11.5	B25T×16	14131-016
9/10.4	10/11.5	13/15	B25T×20	14131-020
12/13.8	14/16.1	17/19.6	B25T×26	14131-026
14/16.1	16/18.4	21/24.2	B25T×30	14131-030
19/21.9	21/24.2	28/32.2	B25T×40	14131-040
Connections: 2 × Solder 22U + 2 × ISO G 1" & Solder 22U				
24/27.6	25/28.8	35/40.3	B25T×50	14147-050
30/34.5	30/34.5	40/46	B25T×60	14147-060
35/40.3	38/43.7	50/57.5	B25T×70	14147-070
40/46	45/51.8	60/69	B25T×80	14147-080
Connections: 2 × Solder 28U + 2 × ISO G 1" & Solder 22U				
13/15	20/23	23/26.5	B120T×20	14171-020
20/23	30/34.5	36/41.4	B120T×30	14171-030
30/34.5	40/46	50/57.5	B120T×40	14171-040
40/46	50/57.5	65/74.8	B120T×50	14171-050
45/51.8	55/63.3	80/92	B120T×60	14171-060
60/69	60/69	90/103.5	B120T×70	14171-070
70/80.5	80/92	110/126.5	B120T×90	14171-090
Connections: 2 × 42U + 2 × 1½" & 35.1				

Measurements (mm)



BPHE	B5T	B8T	B10T	B25T	B120T	B18	B185
A (mm)	193	317	289	526	525	377	425
B (mm)	76	76	119	119	243	119.5	203
C (mm)	154	278	243	479	456	329	354
D (mm)	40	40	72	72	174	72	126
E (mm)	4+2.24×NP			10+2.29×NP		12+2×NP	18+2×NP

The refrigeration cycle

