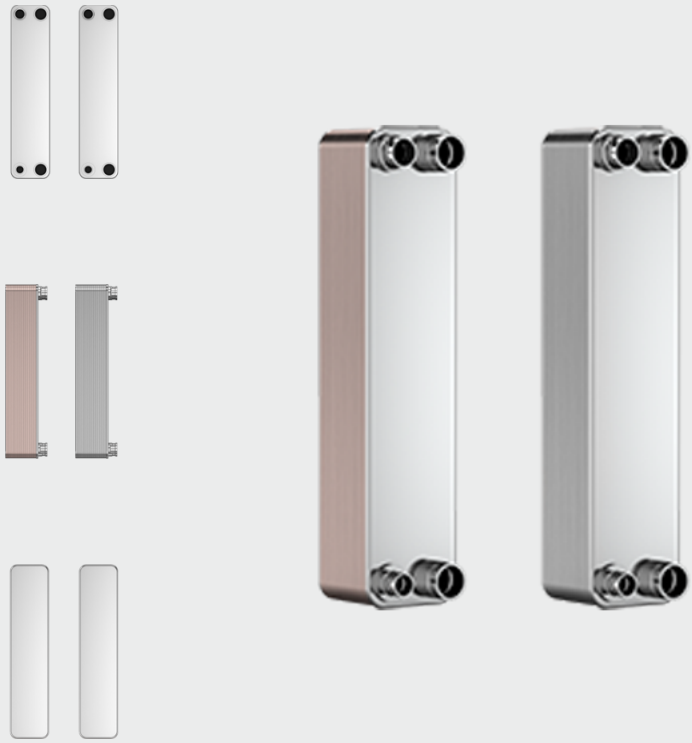
P80 High-pressure



The P80 is designed for lower capacity evaporators using the refrigerant R410A. The optimization enables a significant increase in heat flux, saving energy and giving impressive efficiency gains – up to 20-25% higher efficiency than the V80.

SWEP's versatile High-pressure products enable efficient heat exchange in applications combining small flows and particularly high pressures. The product is approved for pressures up to 45 bar (650 psi), so it can be used with the majority of current high-pressure refrigerants.

Standard connections

For specific dimensions, or information about other types of connections, please contact your SWEP sales

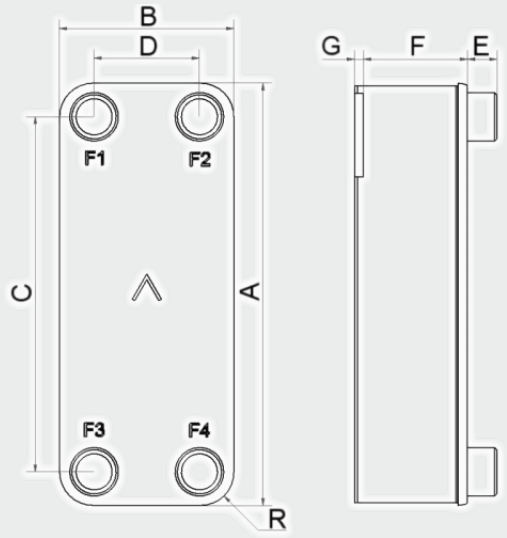
Externally Threaded Connections (Male)

Victualic connections

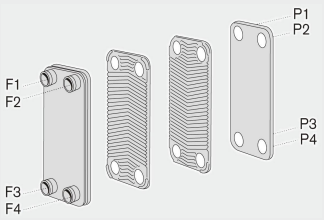
Soldering Connections (Sweat Connections)

Internally Threaded Connections (Female) of Standard Type

P80 High-pressure



Measurements	(inches)	Tolerance
A	20.71	+0.08 /-0.08
B	4.69	+0.04 /-0.04
C	18.50	+0.04 /-0.04
D	2.48	+0.04 /-0.04
E	1.07 (opt. 1.78)	+0.04 /-0.04
F	0.472+0.088 xNoP	+0.5% /-1.5%
G	0.08	+0.04 /-0.04
R	0.91	
Port size F/P	1.3	



Technical data

Working conditions	Inner circuit	Secondary circuit
Max working pressure at311°F	725 psi	507 psi
Max working pressure at437°F	652 psi	449 psi
Test pressure	1174 psi	812 psi

Min temperature: -320.8°F

Max temperature: 437°F

Max number of plates (NoP): 140

BPHE weight: 12.952 + NoP x 0.428 lb

Plate material: AISI 316

Brazing material: Pure Copper

Standard connection material: AISI 316

SSP calculator software
With SWEP's unique SSP G7, the SWEP Software Package, you can do advanced heat transfer calculations yourself, and choose the product solution that suits your application best. It's also easy to choose connections and generate drawings of the complete product. If you would like advice, or you would like to discuss different product solutions, SWEP offers all the service and support your need.

Third party approvals
SWEP BPHEs are generally approved by below certification organizations.

Europe, Pressure Equipment Directive (PED)
America, Underwriters Laboratories Inc (UL)
Japan, Kouatsu-Gas Hoan Kyoukai (KHK)

Additionally SWEP holds approvals from a vast variety of other certification organizations. For approval information regarding a specific product please contact your local SWEP representative. SWEP reserves the right to make changes without prior notice.

Material disclaimer
The information and recommendations in regards to the products are presented in good faith, however, SWEP makes no representations or warranties as to the completeness or accuracy of the information. Information is supplied upon the condition that the purchasers will make their own determination as to the products' suitability for their purposes prior to use. Purchasers should note that the properties of the products are both application and material selection dependent and that products containing stainless steel, both 316 and 304 families, are still subject to corrosion if used in unsuitable environments. Purchasers should also be advised that stainless steel from the 304 family can be more sensitive in regards to corrosion than stainless steel from the 316 family. By purchasing products displayed here upon SWEP disclaims all responsibility due to corrosion of the products and/or other materials attached to the products and also for any damages resulting from the use of the products.

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