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BaseLine Plate Heat Exchangers

Application

Cooling and heating of dairy, brewery, beverage and viscous products and pasteurization in some applications.

Working principle

The plate heat exchanger consists of a pack of corrugated metal plates with portholes for the passage of two fluids between which heat transfer will take place.

The plate pack is assembled between a frame plate and a pressure plate and compressed by tightening bolts.

The plates are fitted with a gasket which seals the channel and directs the fluids into alternate channels. The number of plates are determined by the flow rate, physical properties of the fluids, pressure drop and temperature program. The plate corrugations promote fluid turbulence and support the plates against differential pressure.

Gaskets

The plates are supplied with glue-free Clip-On gaskets, which are easy to replace even with the plates still standing in the frame.

Plate Types

M3, M3G, M6, M6M, M6MG, M10B, M10M, TL10B and TL10P

Standard Materials

Plates Stainless steel AISI 304, AISI 316 or titanium

Gaskets Nitrile-FDA, EPDM or EPDM-FDA.
Clip-On design.

Frame Frame and pressure plate in solid stainless steel for Base 3, 6 and 10. Outer surfaces in various grades of stainless steel. Movable nuts on tightening bolts in chromium plated brass

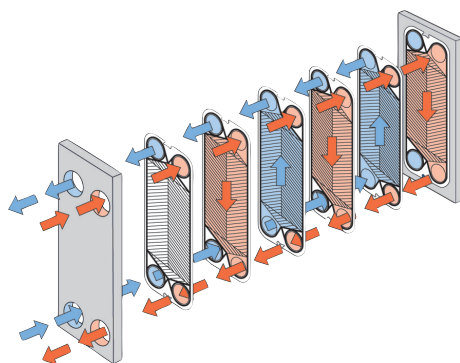
Technical Data

Mechanical design pressure (g) / Temperature

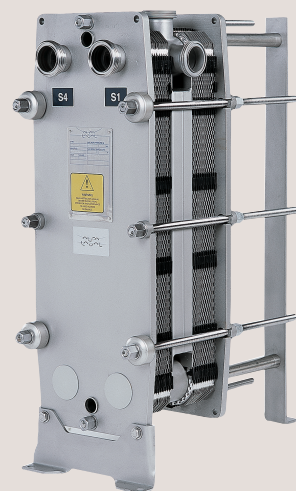
10 bar/160°C

According to European pressure vessel directive (PED).

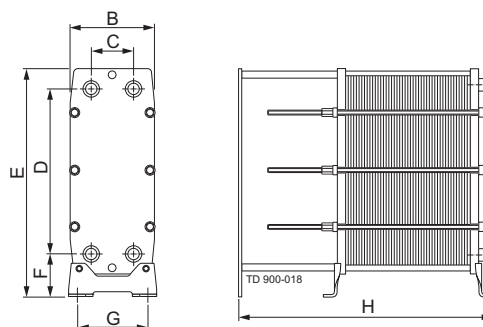
Complies with Alfa Laval Sound Engineering Standard (ALS).



Flow principle of a plate heat exchanger



Dimensions



Dimensions [mm]	BASE-3	BASE-6	BASE-10	BASE-11
B	180	304	446	473
C	60	140	223	218
D	357	640	719	1338
E	545	909	1053	2087
F	141	181	214	430
G	176	290	430	590
H	250-510	575-1,925	700-2,200	1,100-3,000
Connection [mm]				
Diameter	25	51	76/101.6	76/101.6
Capacity [l/h]				
Pasteurization	-	11,000	15,000	45,000
Heating/Cooling	4,500	15,000	65,000	70,000
Water	8,800	35,000	130,000	130,000

1) Adjustable feet ± 30 mm on BASE-3, BASE-6 and BASE-10.

2) Adjustable feet ± 50 mm on BASE-11

The number of tightening bolts vary for different types. Recommended free space around the unit is 1.0 meter at sides and frame head end.

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