General information
Alfa Laval introduced its first brazed plate heat exchanger (BHE) in 1977 and has since continuously developed and optimized its performance and reliability.

Brazing the stainless steel plates together eliminates the need for gaskets and thick frame plates. The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. The plate design guarantees the longest possible life.

The design options of the brazed heat exchanger are extensive. Different plate patterns are available for various duties and performance specifications. You can choose a standard configuration BHE, or a unit designed according to your own specific needs. The choice is entirely yours.

Typical applications
Thanks to the high pressure performance specially suitable within CO2 applications. Can be used for heat recovery within all refrigeration applications.

Working principles
The heating surface consists of thin corrugated metal plates stacked on top of each other. Channels are formed between the plates and corner ports are arranged so that the two media flow through alternate channels, usually in countercurrent flow for the most efficient heat transfer process.

Standard design
The plate pack is covered by cover plates. Connections are located in the front or rear cover plate. To improve the heat transfer design, the channel plates are corrugated.

Particulars required for quotation
To enable Alfa Laval's representative to make a specific quotation, specify the following particulars in your enquiry:
- Required flow rates or heat load
- Temperature program
- Physical properties of liquids in question
- Desired working pressure
- Maximum permitted pressure drop

Examples of connections*
* More connections are available on request.
Standard dimensions and weight*

A measure mm = 22 + (2.07 * n) (±3 mm or ±1.5 %)
A measure inch = 0.87 + (0.08 * n) (±0.12 inch or ±1.5 %)
Weight* kg = 7.26 + (0.35 * n)
Weight* lb = 16.01 + (0.77 * n)

(n = number of plates)
* Excluding connections and reinforcements

Standard data

Min. working temperature see graph
Max. working temperature see graph
Min. working pressure see graph
Max. working pressure see graph
Volume per channel H, L, M, litres (gal) 0.18 (0.046)
Max. particle size mm (inch) 1 (0.04)
Max. flowrate* m³/h (gpm) 51 (224.4)

(n = number of plates)

Flow direction Parallel

* Water at 5 m/s (16.4 ft/s) (connection velocity)

Standard materials

Cover plates Stainless steel
Connections Stainless steel
Plates Stainless steel
Brazing filler Copper

Standard dimensions

mm (inch)

For exact values please contact your local Alfa Laval representative

Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval
Up-to-date Alfa Laval contact details for all countries are always available on our website on www.alfalaival.com