



CB62 / CBH62

Brazed Plate Heat Exchanger

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.

The design options of the brazed heat exchanger are extensive. Different plate patterns are available for various duties and performance specifications. CB62 will be available in two versions - CB62 with design pressure 32 bar to work with R407C - R404A - R134a and other low pressure refrigerants and CBH62 with design pressure 45/48 bar (depending on design temperature) to work primarily with R410A. You can choose a standard configuration BHE, or a unit designed according to your own specific needs. The choice is entirely yours.

Typical applications

- Air conditioning
- Air / water heat pumps
- Brine / water heat pumps
- Chillers
- Economizers

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.

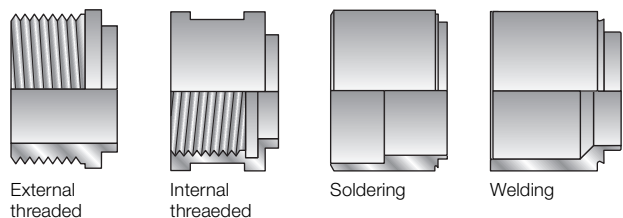
Particulars required for quotation

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

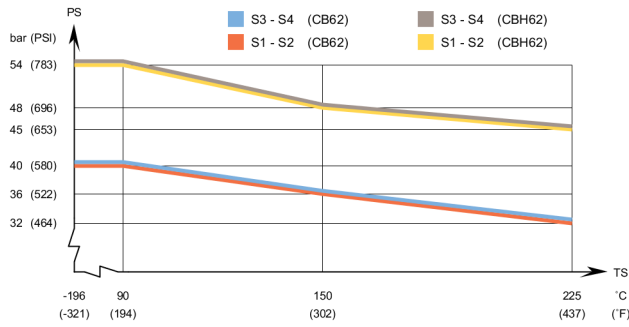


Examples of connections

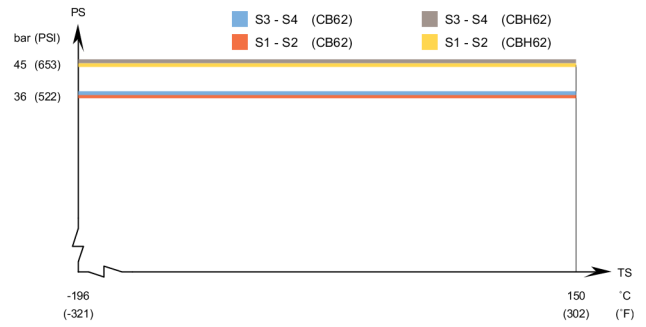


* More connections are available on request.

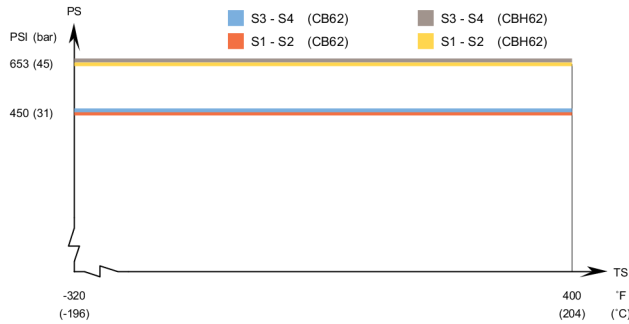
CB62 / CBH62 - PED approval pressure/temperature graph



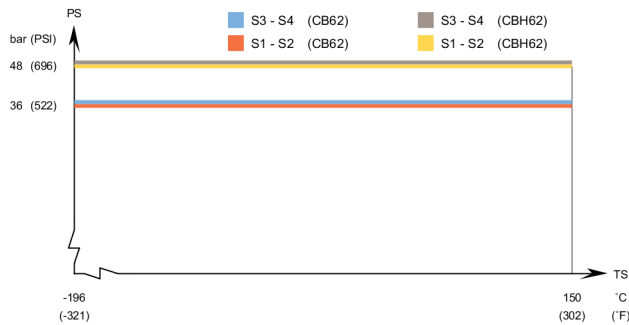
CBH62 / CBH62 - CRN approval pressure/temperature graph



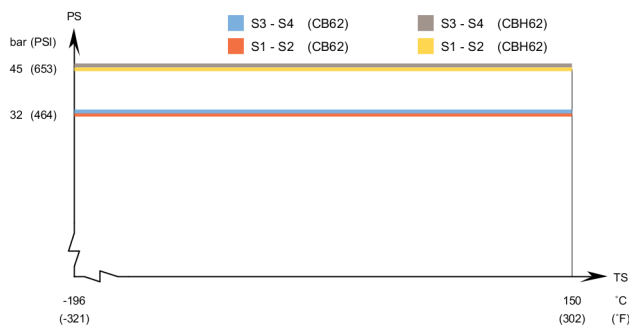
CBH62 / CBH62 - UL approval pressure/temperature graph



CB62 / CBH62 - KHK approval pressure/temperature graph



CB62 / CBH62 - KRA approval pressure/temperature graph



Standard data

Min. working temperature	see graph
Max. working temperature	see graph
Min. working pressure	vacuum
Max. working pressure	see graph
Volume per channel H, litres (ga)	0.094 (0.024)
Volume per channel AH, litres (ga)	0.104 (0.027)
Max. particle size mm (inch)	1 (0.04)
Max. flowrate* m ³ /h (gpm)	8.8 (38.72)
Min. nbr of plates	4
Max. nbr of plates	150

* 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 and weight*

A measure mm	=	13 + (1.98 * n) (±2.5 mm or ±1.5 %)
A measure inch	=	0.51 + (0.08 * n) (±0.1 inch or ±1.5 %)
Weight** kg	=	2.1 + (0.18 * n)
Weight** lb	=	4.63 + (0.4 * n)

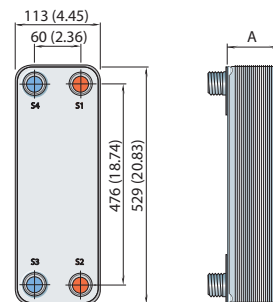
(n = number of plates)

* For exact values please contact your local Alfa Laval representative.

** Excluding connections

Standard dimensions

mm (inch)



How to contact Alfa Laval

Up-to-date AlfaLaval contact details for all countries are always available on our website on www.alfalaval.com