CB200 / CBH200
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.

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
Liquid/liquid applications:
- HVAC heating/cooling
- Process heating/cooling
- Hydraulic oil cooling
- Oil cooling

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
External threaded
Welding
Compact flanges
Standard dimensions and weight*

**CB200**
- A measure mm = \(11 + (2.7 \times n) (+/-10 \text{ mm})\)
- A measure inch = \(0.43 + (0.11 \times n) (+/-0.39 \text{ inch})\)
- Weight** kg = \(12 + (0.6 \times n)\)
- Weight** lb = \(26.46 + (1.32 \times n)\)

**CBH200**
- A measure mm = \(14 + (2.7 \times n) (+/-10 \text{ mm})\)
- A measure inch = \(0.55 + (0.11 \times n) (+/-0.39 \text{ inch})\)
- Weight** kg = \(14 + (0.6 \times n)\)
- Weight** lb = \(30.86 + (1.32 \times n)\)

\(n = \text{number of plates}\)

* Excluding connections

Standard data

- Min. working temperature see graph
- Max. working temperature see graph
- Min. working pressure vacuum
- Max. working pressure see graph
- Volume per channel, litres (ga) 0.51 (0.13)
- Max. particle size mm (inch) 1.8 (0.07)
- Max. flowrate* m³/h (gpm) 128 (561)
- Min. nbr of plates 10
- Max. nbr of plates 230

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

Standard materials

- Cover plates Stainless steel
- Connections Stainless steel
- Plates Stainless steel
- Brazing material Copper

Standard dimensions

**mm (inch)**

**Marine approvals**

CBMH200 can be delivered with marine classification certificate (ABS, BV, CCS, Class NK, DNV, GL, LR, RINA, RMRS).

For exact values please contact your local Alfa Laval representative

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How to contact Alfa Laval

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

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