Alfa Laval CB112 / CBH112 / CBP112 / CBXP112

Brazed plate heat exchanger

Alfa Laval CB brazed plate heat exchangers provide efficient heat transfer with a small footprint.

Applications
- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

Design
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

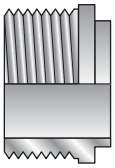
Different pressure ratings are available for different needs.

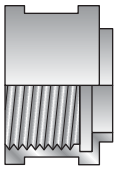
The XP design is particularly suited for CO_2 applications.

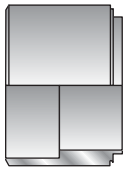
Asymmetric channels provide optimal efficiency in the most compact design. This results in low refrigerant charge or lower pressure drop on the water or brine side, reducing the CO_2 footprint.

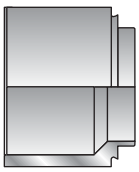
Based on standard components and a modular concept, including symmetric and asymmetric channels, each unit is custom-built to meet the specific requirements of each individual installation.

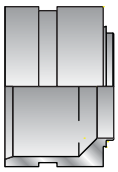
Examples of connections


External thread


Internal thread


Soldering


Welding


Grooved connection

Technical Data

Standard materials

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

Dimensions and weight[1]

A measure (mm)	16 + (2.07 * n)
A measure (inches)	0.63 + (0.08 * n)
Weight (kg)[2]	4.82 + (0.35 * n)
Weight (lb)[2]	10.63 + (0.77 * n)

1. n = number of plates
2. Excluding connections

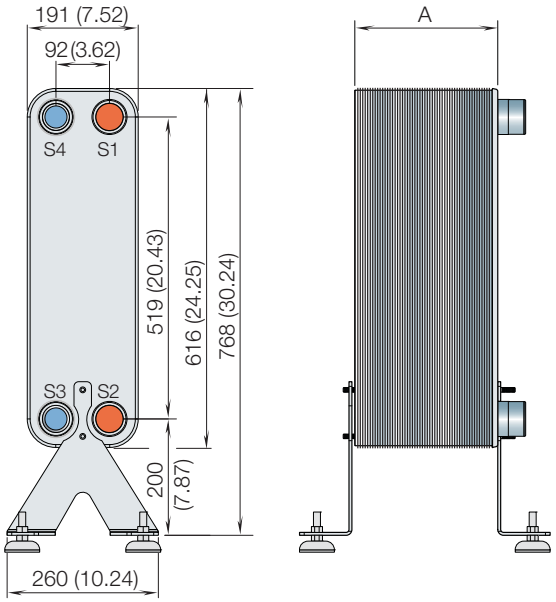
Standard data

Volume per channel, litres (gal)	H, L, M: 0.18 (0.046) CB/CBH/CBP AH, AM (S1-S2): 0.20 (0.052) CB/CBH/CBPAH, AM (S3-S4): 0.16 (0.041)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate[1] m^3/h (gpm)	51 (224)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	300

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

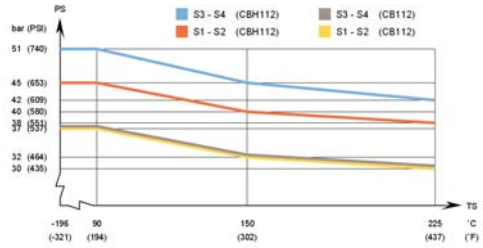
Dimensional drawing

Measurements in mm (inches)

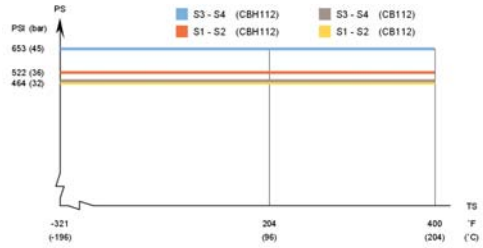


Design pressure and temperature

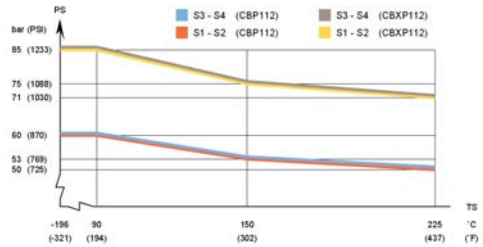
CB112/CBH112 – PED approval pressure/temperature graph



CB112/CBH112 – UL approval pressure/temperature graph



CBP112 / CBXP112 – PED approval pressure/temperature graph



CBXP112 – UL approval pressure/temperature graph

Designed for full vacuum.

Alfa Laval plate heat exchangers are available with a wide range of pressure vessel approvals. Please contact your Alfa Laval representative for more information.

NOTE: Values above are to be used as an indication. For exact values, please use the drawing generated by the Alfa Laval configurator or contact your local Alfa Laval representative.

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

How to contact Alfa Laval
Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.

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