...froztec



Alfa Laval CB112 / CBH112 / CBP112 / CBXP112

Brazed plate heat exchanger

Introduction

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 CO₂ 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 $\rm CO_2$ 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

Soldering

Welding



Grooved connection

Technical data

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

Dimensions and weight

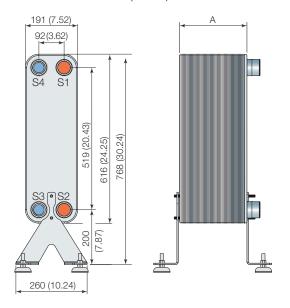
Dimensions and weight ¹	
A measure (mm)	16 + (2.07 * n)
A measure (inches)	0.63 + (0.08 * n)
Weight (kg) ²	4.82 + (0.35 * n)
Weight (lb) ²	10.63 + (0.77 * n)

¹ n = number of plates

Standard data H, L, M: 0.18 (0.0476) CB/CBH/CBP AH (S1-S2): 0.2 Volume per channel, litres (gal) (0.0528)CB/CBH/CBP AH (S3-S4): 0.16 (0.0423)Max. particle size, mm (inch) 1 (0.039) 51 (224.5) Max. flowrate¹ m³/h (gpm) Flow direction Parallel Min. number of plates 10 Max. number of plates

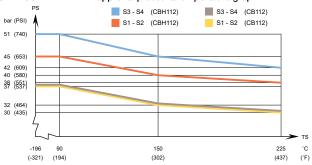
Dimensional drawing

Measurements in mm (inches)

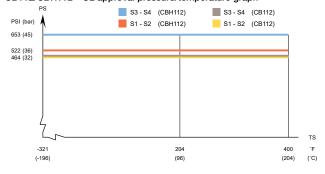


Design pressure and temperature

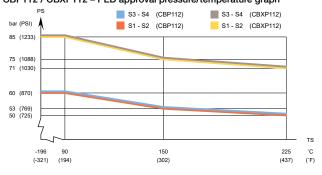
CB112/CBH112 - PED approval pressure/temperature graph



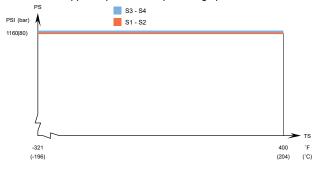
CB112/CBH112 - UL approval pressure/temperature graph



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.

² Excluding connections

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



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