

# Alfa Laval CB112AQ

## AHRI Certified® brazed plate heat exchanger

## Introduction

Alfa Laval CBAQ is AHRI Certified® through the Liquid to Liquid Brazed & Fusion-bonded Plate Heat Exchangers (LLBF) Certification Program which ensures thermal performance in accordance with the product specifications.

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

## Applications

- HVAC heating and cooling
- Refrigeration
- 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.

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



## **Technical data**

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

#### Dimensions and weight

#### Dimensions and weight <sup>1</sup>

Dimensione and weight		
A measure (mm)	16 + (2.06 * n)	
A measure (inches)	0.63 + (0.08 * n)	
Weight (kg) <sup>2</sup>	4.82 + (0.35 * n)	
Weight (lb) <sup>2</sup>	10.63 + (0.77 * n)	

<sup>1</sup> n = number of plates

<sup>2</sup> Excluding connections

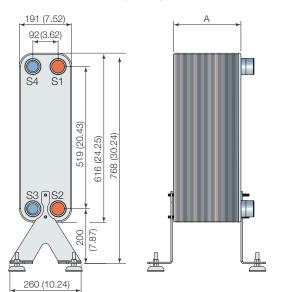
#### Standard data

	H, L, M: 0.2 (0.0528)
	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)
Max. flowrate <sup>1</sup> m3/h (gpm)	51 (224.5)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	300

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

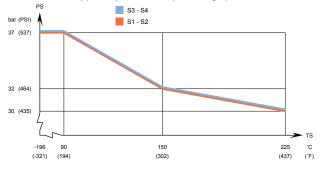
### **Dimensional drawing**

Measurements in mm (inches)



#### Design pressure and temperature

CB112AQ - PED approval pressure/temperature graph



#### CB112AQ - 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.

## Certificates



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