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Alfa Laval CBP540

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
- 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

Branded Features

	FlexFlow™	Superior thermal performance
	IceSafe	Controlled, non-destructive freezing
<u>+++</u>	PressureSecure	Unparalleled strength for demanding duties
Z	REFuture	A future-proof investment for tomorrow's refrigerants
	ValuePlus	Total support – with value-adding options to fit your needs

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 P 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 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







Soldering

Technical data

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

Dimensions and weight

Dimensions and weight ¹

Ennonene ana neig			
A measure (mm)	16 + (2.64 * n)		
A measure (inches)	0.63 + (0.10 * n)		
Weight (kg) ²	16.6 + (0.99 * n)		
Weight (lb) ²	36.60 + (2.18 * n)		

¹ n = number of plates

² Excluding connections

Standard data

Volume per channel, litres (gal)	S1–S2: 0.73 (0.1928)
volume per charmer, litres (gai)	S3–S4: 0.56 (0.02481)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate ¹ m ³ /h (gpm)	280 (1232.8)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	330

¹ Water at 7 m/s (23.0 ft/s) (connection velocity)

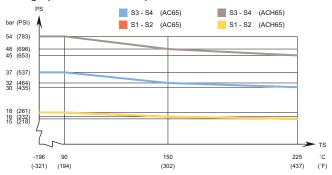
Dimensional drawing

Measurements in mm (inches)

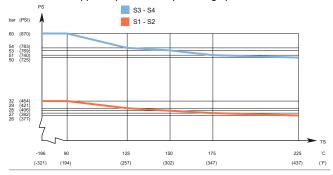
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Design pressure and temperature



CBP540 – PED 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.

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