

Alfa Laval CB40

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
- Data center 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



Total support - with value-adding options to fit vour 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.

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



Examples of connections









External thread

Internal thread Soldering Welding

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-measurement (mm)	12.5 + (1.55 * n)		
A-measurement (inches)	0.49 + (0.06 * n)		
Weight (kg) ²	1.4 + (0.11 * n)		
Weight (lb) ²	3.09 + (0.24 * n)		

¹ n = number of plates

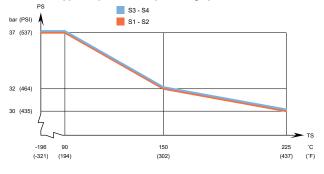
² Excluding connections

Standard data

Volume per channel, litre	s (S1–S2) 0.048 (0.0127)
(gal)	(S3–S4) 0.041 (0.0108)
Max. particle size, mm (inch)	0.6 (0.024)
Max. flowrate ¹ m ³ /h (gpm)	8.8 (38.7)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	120

Design pressure and temperature





Designed for full vacuum.

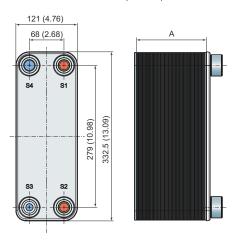
Alfa Laval plate heat exchangers are available with a wide range of pressure vessel approvals. Please contact your Alfa Laval representative for more information.

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.

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

Dimensional drawing

Measurements in mm (inches)



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