Alfa Laval CB24

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
- Evaporator
- Condenser

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
PressureSecure	Unparalleled strength for demanding duties
REFuture	A future-proof investment for tomorrow's refrigerants
ValuePlus	Total support – with value-adding options to fit your needs

Design

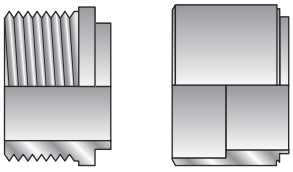
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

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, each unit is custom-built to meet the specific requirements of each individual installation.

Suitable with most HFC, HFO and natural refrigerants.

Examples of connections



External thread

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]	
A measure (mm)	6.2 + (1.21 * n)
A measure (inches)	0.24 + (0.05 * n)
Weight (kg) [2]	0.515 + (0.07 * n)
Weight (lb) [2]	1.14 + (0.15 * n)

[1] n = number of plates

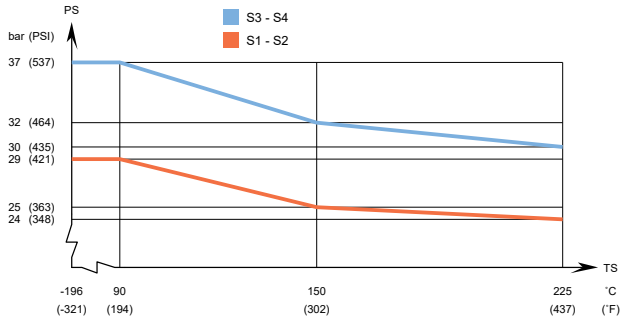
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	S1–S2: 0.0347 (0.0092) S3–S4: 0.0184 (0.0049)
Max. particle size, mm (inch)	0.5 (0.020)
Max. flowrate[1] m^3/h (gpm)	4.1 (18.1)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	56

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

Design pressure and temperature

CB24 – PED approval pressure/temperature graph



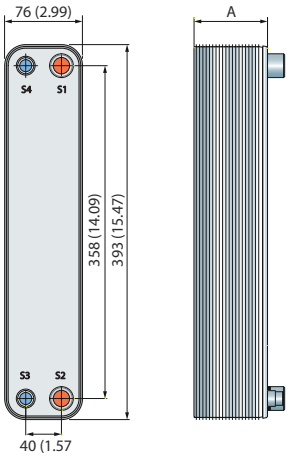
Designed for full vacuum.

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.

Dimensional drawing

Measurements in mm (inches)



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