Alfa Laval CBH18DW

Brazed plate heat exchanger

Introduction

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

Double wall plates are used as an extra precaution to avoid intermixing of fluids.

Applications

- HVAC heating and cooling
- Condenser

Benefits

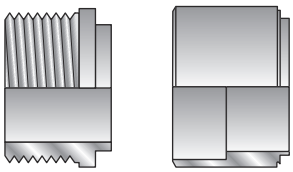
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free
- Leak detection
- No fluid contamination

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.

The double wall construction provides external leak detection and minimizes the risk of mixing the fluids. The thermal performance is similar to single wall heat exchanger.

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)	12.2 + (2.27 * n)
A measure (inches)	0.48 + (0.09 * n)
Weight (kg) [2]	0.6 + (0.13 * n)
Weight (lb) [2]	1.32 + (0.29 * n)

[1] n = number of plates

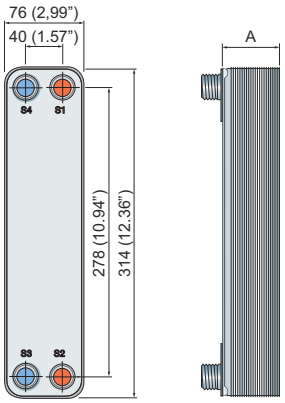
[2] Excluding connections

Standard data	
Volume per channel, litres (gal)	0.0335 (0.0088)
Max. particle size, mm (inch)	0.6 (0.024)
Max. flowrate[1] m3/h (gpm)	4.1 (18.1)
Flow direction	Parallel
Min. number of plates	10 (DW)
Max. number of plates	52 (DW)

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

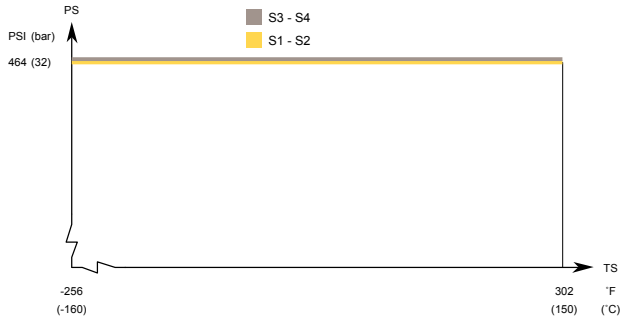
Dimensional drawing

Measurements in mm (inches)

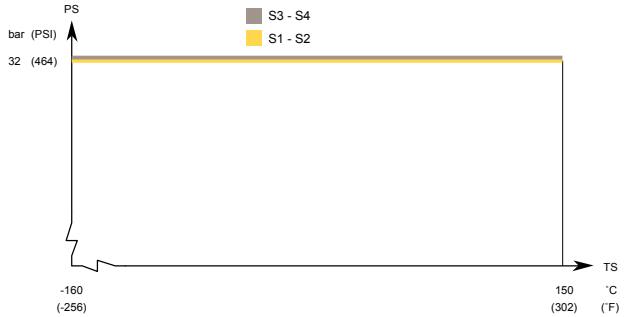


Design pressure and temperature

CBH18DW – UL approval pressure/temperature graph



CBH18DW – 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.

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com