



Alfa Laval CB90DWAQ

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.

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

Applications

- HVAC heating and cooling

Benefits

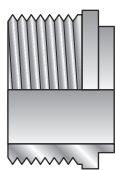
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free
- Leak detection
- No fluid contamination

Design

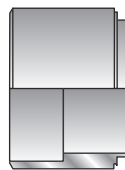
The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life.

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) | $13 + (2.61 * n)$ |
| A measure (inches) | $0.51 + (0.10 * n)$ |
| Weight (kg) ² | $3.34 + (0.50 * n)$ |
| Weight (lb) ² | $7.36 + (1.10 * n)$ |

¹ n = number of plates

² Excluding connections

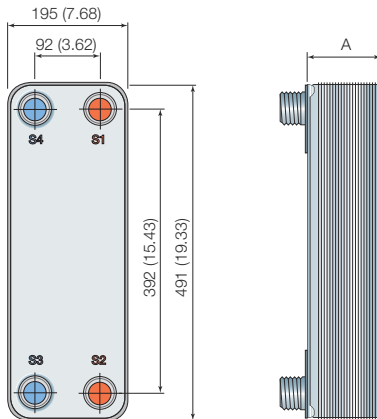
Standard data

| | |
|--|----------------|
| Volume per channel, litres (gal) | 0.173 (0.0457) |
| Max. particle size, mm (inch) | 1.0 (0.039) |
| Max. flowrate ¹ m ³ /h (gpm) | 37 (162.9) |
| Flow direction | Parallel |
| Min. number of plates | 10 |
| Max. number of plates | 150 |

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

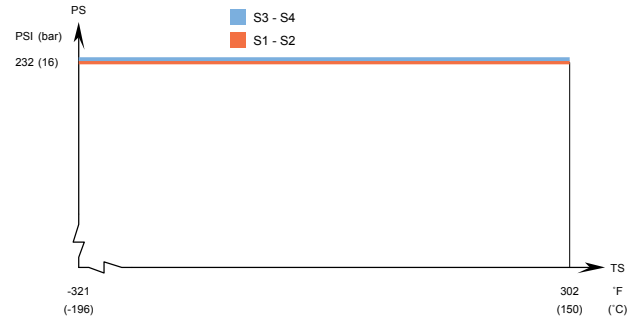
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

CB90DWAQ – 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.

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