Alfa Laval CB62 / CBH62

Brazed plate heat exchanger

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

Benefits
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free

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 unit can be supplied with a refrigerant distribution system for optimal evaporator performance.

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 CO₂ 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

External thread
Internal thread
Soldering
Welding
Technical Data

Standard materials

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover plates</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Connections</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Plates</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Brazing filler</td>
<td>Copper</td>
</tr>
</tbody>
</table>

Dimensions and weight

- A measure (mm): \(13 + (1.98 \times n)\)
- A measure (inches): \(0.51 + (0.08 \times n)\)
- Weight (kg): \(2.1 + (0.18 \times n)\)
- Weight (lb): \(4.63 + (0.4 \times n)\)

1. \(n\) = number of plates
2. Excluding connections

Standard data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume per channel, litres (gal)</td>
<td>AH (S1-S2): 0.104 (0.027) AH (S3-S4): 0.084 (0.022)</td>
</tr>
<tr>
<td>Max. particle size, mm (inch)</td>
<td>1 (0.039)</td>
</tr>
<tr>
<td>Max. flowrate (^1) m(^3)/h (gpm)</td>
<td>8.8 (39)</td>
</tr>
<tr>
<td>Flow direction</td>
<td>Parallel</td>
</tr>
<tr>
<td>Min. number of plates</td>
<td>4</td>
</tr>
<tr>
<td>Max. number of plates</td>
<td>150</td>
</tr>
</tbody>
</table>

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

Dimensional drawing

Measurements in mm (inches)

Design pressure and temperature

- CB62/CBH62 – PED approval pressure/temperature graph
- CB62/CBH62 – 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.

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.