Alfa Laval AC brazed plate heat exchangers provide efficient heat transfer with a small footprint. They are specifically designed to work in air conditioning and refrigeration applications as evaporators and condensers in chillers and heat pumps.

**Applications**
- 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

**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 True dual-circuit design provides a higher freezing resistance compared to back-to-back solutions.

The integrated distribution system ensures an even distribution of the refrigerant throughout the plate package.

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
- Internal thread
- Soldering
- Welding
- Grooved connection
Technical Data

Standard materials

- Cover plates: Stainless steel
- Connections: Stainless steel
- Plates: Stainless steel
- Brazing filler: Copper

Dimensions and weight

- A measure (mm) = 12 + (2.61 * n)
- A measure (inches) = 0.47 + (0.1 * n)
- Weight (kg) = 13 + (0.84 * n)
- Weight (lb) = 28.66 + (1.85 * n)

1. n = number of plates
2. Excluding connections

Standard data

- Volume per channel, litres (gal) (S1-S2): 0.47 (0.121)
- Max. particle size, mm (inch) = 1.1 (0.043)
- Max. flowrate m³/h (gpm) = 120 (528)
- Flow direction: Diagonal
- Min. number of plates: 10
- Max. number of plates: 270

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

Dimensional drawing

Measurements in mm (inches)

Design pressure and temperature

AC500DQ/ACH500DQ – PED approval pressure/temperature graph

AC500DQ/ACH500DQ – 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.