

Alfa Laval AC500EQ / ACH500EQ / ACP500EQ

Brazed plate heat exchanger for air conditioning and refrigeration

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
- Cascade systems •

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.

Single-circuit design.

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



Welding



Grooved connection

Internal thread Soldering

Technical Data

Standard materials

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

Dimensions and weight¹

A measure (mm)	12 + (2.61 * n)	
A measure (inches)	0.47 + (0.1 * n)	
Weight (kg) ²	12.5 + (0.84 * n)	
Weight (lb) ²	27 56 + (1 85 * n)	

- 1. n = number of plates
- II = Inditiber of plates
 Evaluating connections
- 2. Excluding connections

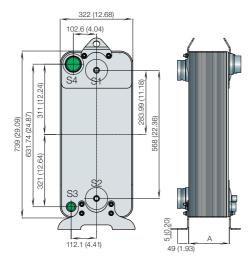
Standard data

Volume per channel, litres (gal)	(S1-S2): 0.40 (0.103) (S3-S4): 0.45 (0.116)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate ¹ m ³ /h (gpm)	120 (528)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	270

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

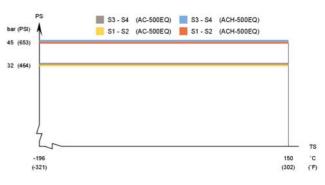
Dimensional drawing

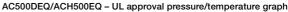
Measurements in mm (inches)

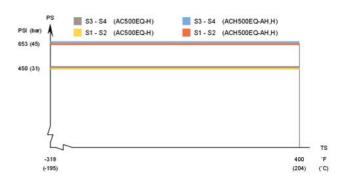


Design pressure and temperature

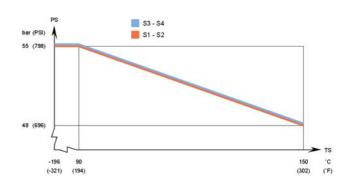
AC500EQ/ACH500EQ - PED approval pressure/temperature graph











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.

CHE00013EN 2016-09

Alfa Laval reserves the right to change specifications without prior notification.

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.