

# Alfa Laval AC502EQ

# Brazed plate heat exchanger for air conditioning and refrigeration

#### Introduction

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

## **Branded Features**



FlexFlow™

Superior thermal performance



ValuePlus

Total support – with value-adding options to fit your needs

### 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.

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  $\rm CO_2$  footprint.

The asymmetry guarantees the best performance in both fulland partial-load conditions.

Designed for high-efficiency applications, such as those applications with high evaporation temperature and low water/



brine pressure drop. This results in reduced environmental impact and lower costs.

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

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.

Suitable with most HFC, HFO and natural refrigerants.

# **Examples of connections**







External 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 <sup>1</sup>		
A measure (mm)	12 + (2.61 * n)	
A measure (inches)	0.47 + (0.10 * n)	
Weight (kg) <sup>2</sup>	13 + (0.84 * n)	
Weight (lb) <sup>2</sup>	28.66 + (1.85 * n)	

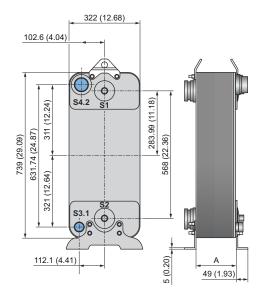
<sup>&</sup>lt;sup>1</sup> n = number of plates

 $<sup>^{2}</sup>$  Excluding connections

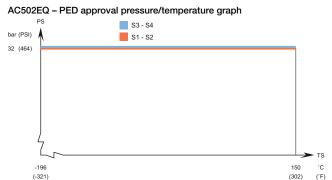
Standard data	
Volume per channel, litres (gal)	AH (S1-S2): 0.52 (0.1374)
	AH (S3-S4): 0.45 (0.1189)
	H (S1-S2): 0.47 (0.1242)
	H (S13-S4): 0.5 (0.1321)
Max. particle size, mm (inch)	1.1 (0.043)
Max. flowrate m <sup>3</sup> /h (gpm)	168 (739.7)
Flow direction	Parallel
Min. number of plates	10
Max. number of plates	270

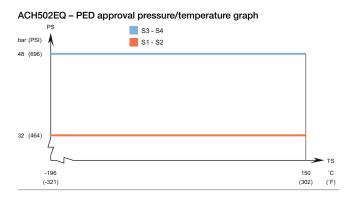
#### Dimensional drawing

Measurements in mm (inches)



## Design pressure and temperature





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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