

Alfa Laval AXP82

Brazed plate heat exchanger for extreme high-pressure requirements

Introduction

Alfa Laval AXP is specifically designed to work in air conditioning and other refrigeration applications, where the pressure requirements are extremely high.

Applications

Because of their high-pressure performance, they are particularly well-suited to CO₂ applications, such as transcritical gas cooling.

Benefits

- Tolerates extremely high operating pressures
- 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



IceSafe

Controlled, non-destructive freezing



PressureSecure

Unparalleled strength for demanding duties



REFuture

A future-proof investment for tomorrow's refrigerants

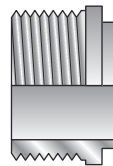


ValuePlus

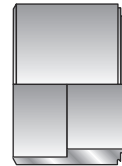
Total support – with value-adding options to fit your needs



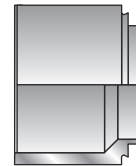
Examples of connections



External thread



Soldering



Welding

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

Technical Data

Standard materials

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

Dimensions and weight ¹

A measure (mm)	$18.2 + (1.85 * n)$
A measure (inches)	$0.72 + (0.07 * n)$
Weight (kg) ²	$5.1 + (0.36 * n)$
Weight (lb) ²	$11.24 + (0.79 * n)$

¹ n = number of plates

² Excluding connections

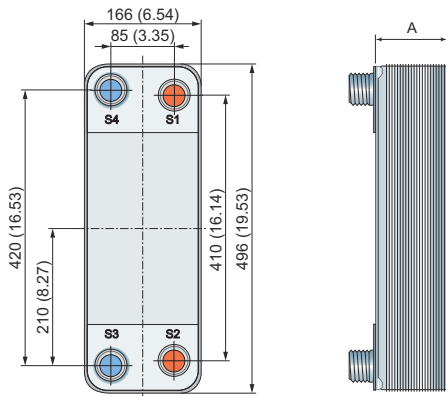
Standard data

Volume per channel, litres (gal)	S1–S20.095 (0.0251) S3–S40.095 (0.0251)
Max. particle size, mm (inch)	0.7 (0.028)
Max. flowrate ¹ m ³ /h (gpm)	25 (110.1)
Flow direction	Parallel
Min. number of plates	4
Max. number of plates	200

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

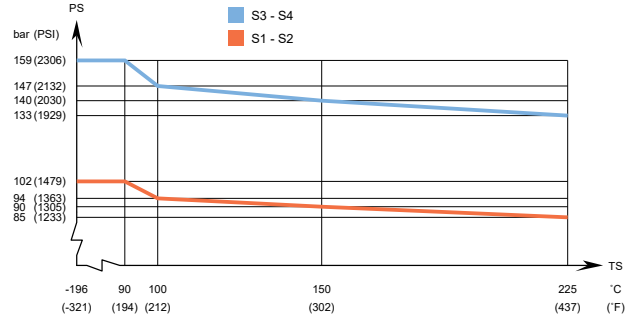
Dimensional drawing

Measurements in mm (inches)



Design pressure and temperature

AXP82 – 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.

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How to contact Alfa Laval

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