

# Alfa Laval AXP27

# 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  ${\rm CO_2}$  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

#### 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.

AXP are brazed plate heat exchangers with thin external frames in carbon steel that are able to withstand extremely high operating pressures.

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

Always delivered with lifting lugs for easy handling.

## **Examples of connections**







External thread

Soldering

Welding



#### **Technical Data**

Standard materials	
Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
Brazing filler	Copper
External frame	Carbon steel, Zinc electroplated

Dimensions and weight <sup>1</sup>	
A measure (mm)	13 + (2.4 * n)
A measure (inches)	0.51 + (0.09 * n)
Weight (kg) <sup>2</sup>	21 + (0.13 * n)
Weight (lb) <sup>2</sup>	46.30 + (0.29 * n)

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

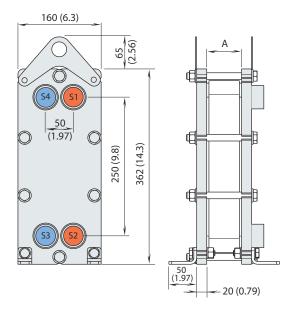
<sup>&</sup>lt;sup>2</sup> Excluding connections

Standard data	
Volume per channel, litres (gal)	0.05 (0.0132)
Max. particle size, mm (inch)	0 (0.000)
Max. flowrate <sup>1</sup> m3/h (gpm)	14 (61.6)
Flow direction	Parallel
Min. number of plates	6
Max. number of plates	150

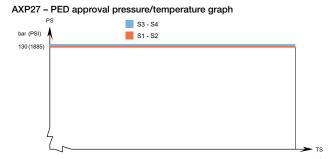
<sup>1</sup> Water at 5 m/s (16.4 ft/s) (connection velocity)

### **Dimensional drawing**

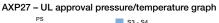
Measurements in mm (inches)

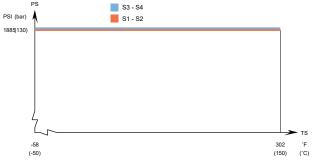


## Design pressure and temperature



(302)





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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