

# Alfa Laval AlfaNova 27 / HP 27 / XP27

## Fusion-bonded plate heat exchanger in 100% stainless steel

### Introduction

Alfa Laval AlfaNova fusion-bonded plate heat exchangers are made of 100% stainless steel. They are suitable for applications which place high demand on cleanliness, applications where aggressive media like ammonia are used or where copper and nickel contamination is unacceptable.

AlfaNova provides efficient heat transfer with a small footprint, has an extreme pressure fatigue resistance and covers high temperatures, up to 550°C/1022°F.

### Applications

Suitable for a wide range of applications, such as:

- HVAC heating and cooling
- Refrigeration
- Oil cooling
- Industrial heating and cooling
- Process heating and cooling

### Benefits

- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free
- Copper free

### Branded Features



**AlfaNova**

100% stainless steel



**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

### Design

The AlfaFusion filler material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design



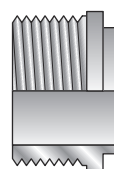
technologies and extensive verification guarantees the highest performance and longest possible service life.

Different pressure ratings are available for different needs.

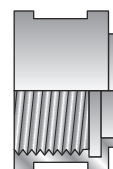
The XP design is particularly suited to CO<sub>2</sub> applications.

Based on standard components and a modular concept, each unit is custom-built to meet the specific requirements of each individual installation.

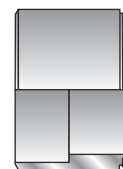
### Examples of connections



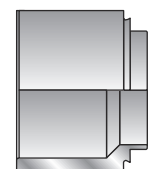
External thread



Internal thread



Soldering



Welding

## Technical Data

### Standard materials

Cover plates	Stainless steel
Connections	Stainless steel
Plates	Stainless steel
AlfaFusion filler	Stainless steel

### Dimensions and weight <sup>1</sup>

A-measurement (mm)	11 + (2.42 * n) HP: 13 + (2.42 * n) XP: 15 + (2.42 * n)
A-measurement (inches)	0.43 + (0.10 * n) HP: 0.51 + (0.10 * n) XP: 0.59 + (0.10 * n)
Weight (kg) <sup>2</sup>	1 + (0.13 * n) HP: 1.5 + (0.13 * n) XP: 2 + (0.13 * n)
Weight (lb) <sup>2</sup>	2.20 + (0.29 * n) HP: 3.31 + (0.29 * n) XP: 4.41 + (0.29 * n)

<sup>1</sup> n = number of plates

<sup>2</sup> Excluding connections

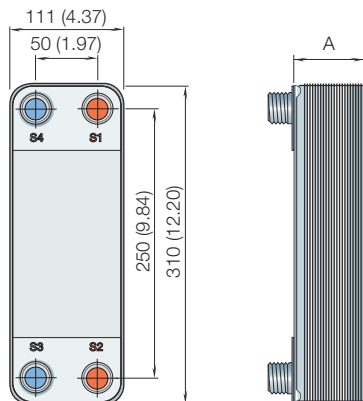
### Standard data

Volume per channel, litres (gal)	0.05 (0.0132)
Max. particle size, mm (inch)	1.2 (0.047)
Max. flowrate <sup>1</sup> m <sup>3</sup> /h (gpm)	14 (61.6)
Flow directions	Parallel
Min. number of plates	6
Max. number of plates	100

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

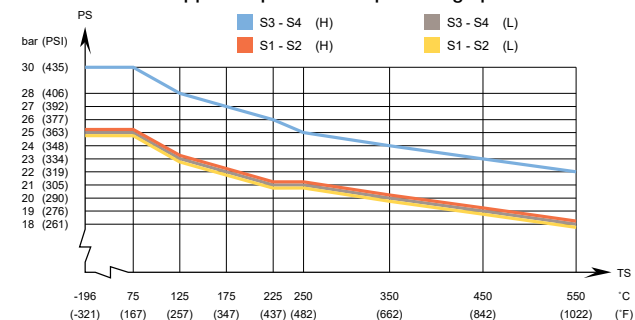
## Dimensional Drawing

Measurements in mm (inches)

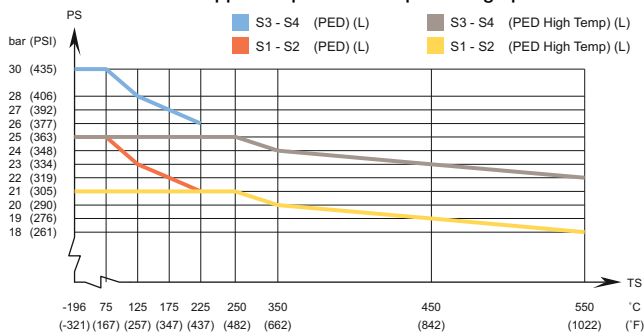


## Design pressure and temperature

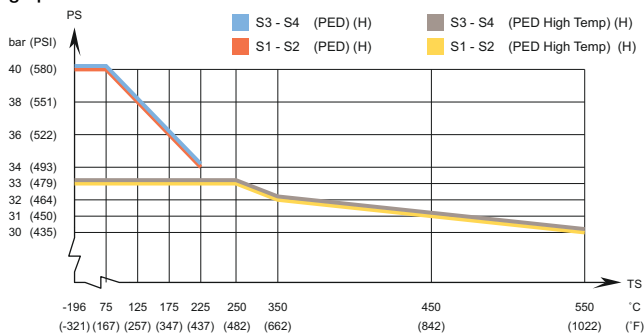
### AlfaNova 27 - PED approved pressure/temperature graph



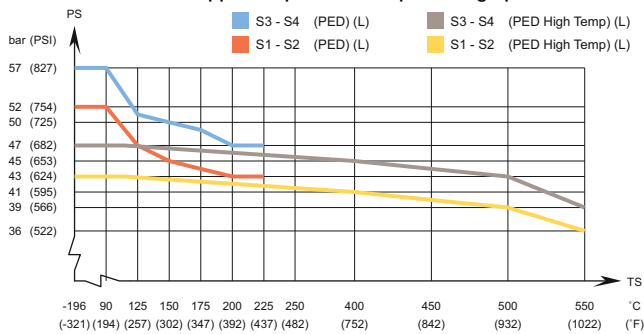
### AlfaNova HP 27 - PED approved pressure/temperature graph



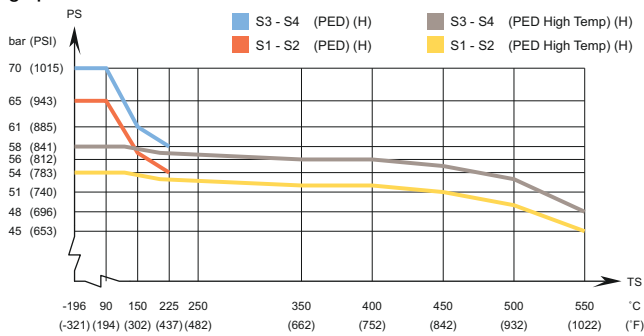
### AlfaNova HP 27 - PED high temperature approved pressure/temperature graph



### AlfaNova XP27 - PED approved pressure/temperature graph



### AlfaNova XP27 - PED high temperature approved 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.

## Marine approvals

AlfaNovaM HP 27 can be delivered with marine classification certificate (ABS, BV, CCS, ClassNK, DNV-GL, KR, LR, RINA)

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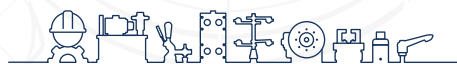
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## How to contact Alfa Laval

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inf @ /CESEHSA.com.mx

