

Alfa Laval AlfaNova 52 / HP 52 / XP52

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 unaccepted.

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 CO₂ 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 Solderi

Soldering

Welding

Technical Data

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

Dimensions and weight ¹		
A measure (mm)	11 + (2.48 * n)	
A measure (inches)	0.43 + (0.10 * n)	
Weight (kg) ²	1.9 + (0.22 * n)	
Weight (lb) ²	4.19 + (0.49 * n)	

¹ n = number of plates

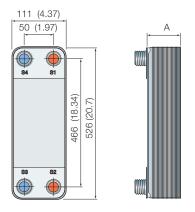
² Excluding connections

Standard data	
Volume per channel, litres (gal)	0.095 (0.0251)
Max. particle size, mm (inch)	1.2 (0.047)
Max. flowrate ¹ m ³ /h (gpm)	14 (61.6)
Flow directions	Parallel
Min. number of plates	6
Max. number of plates	150

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

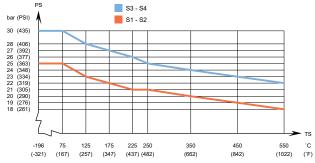
Dimensional Drawing

Measurements in mm (inches)

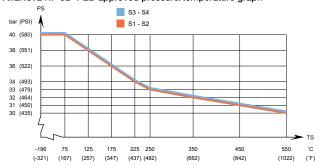


Design pressure and temperature

AlfaNova 52 - PED approved pressure/temperature graph

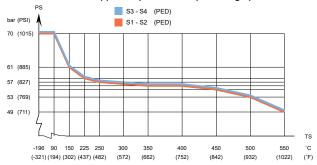


AlfaNova HP 52- PED approved pressure/temperature graph 1



¹ Min. temperature -10°C (14°F) with connection tube made of carbon steel.

AlfaNova XP52 - PED 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.

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