



## Alfa Laval AlfaNova 400 AQ

**AHRI Certified® fusion-bonded plate heat exchanger in 100% stainless steel**

### Introduction

Alfa Laval AlfaNova AQ is AHRI Certified® through the Liquid to Liquid Brazed & Fusion-bonded Plate Heat Exchangers (LLBF) Certification Program which ensures thermal performance in accordance with the product specifications.

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 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
- Industrial 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

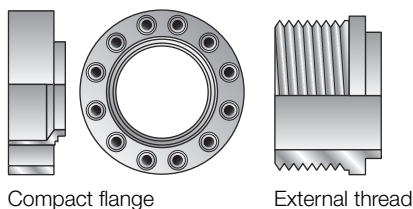
### Design

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.

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



Compact flange

External thread

## 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 measure (mm)	14 + (2.65 * n)
A measure (inches)	0.55 + (0.10 * n)
Weight (kg) <sup>2</sup>	22 + (1.40 * n)
Weight (lb) <sup>2</sup>	48.50 + (3.09 * n)

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

<sup>2</sup> Excluding connections

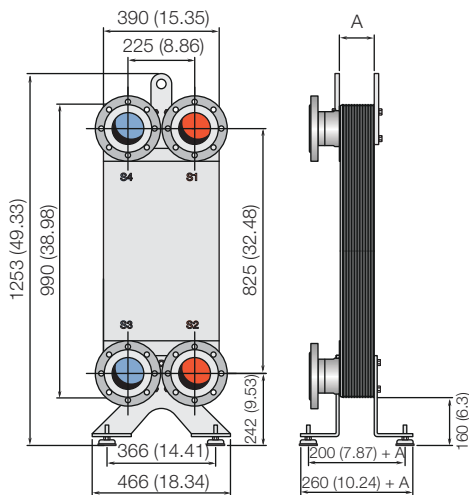
### Standard data

Volume per channel, litres (gal)	0.74 (0.1955)
Max. particle size, mm (inch)	1.8 (0.071)
Max. flowrate <sup>1</sup> m <sup>3</sup> /h (gpm)	200 (880.6)
Flow directions	Parallel
Min. number of plates	10
Max. number of plates	270

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

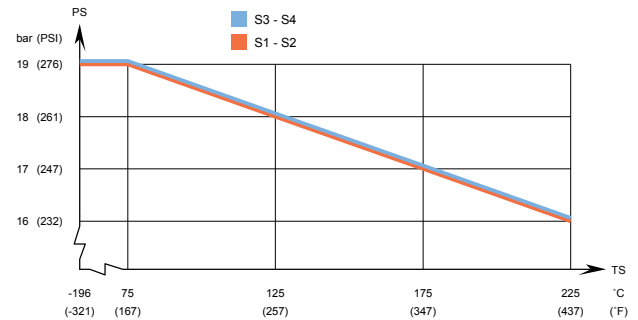
## Dimensional Drawing

Measurements in mm (inches)



## Design pressure and temperature

### AlfaNova HP 400AQ – PED approval pressure/temperature graph <sup>1</sup>



<sup>1</sup> Min. temperature -50°C (-58°F) with connection tube made of carbon steel.

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.

## Certificates



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CHE00151-3-EN-GB

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