



## Alfa Laval AlfaNova 52 AQ

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

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.

### Application

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

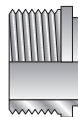
### Design

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



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)           | 11 + (2.48 * n)   |
| A measure (inches)       | 0.43 + (0.1 * n)  |
| Weight (kg) <sup>2</sup> | 1.9 + (0.22 * n)  |
| Weight (lb) <sup>2</sup> | 4.19 + (0.49 * n) |

- n = number of plates
- Excluding connections

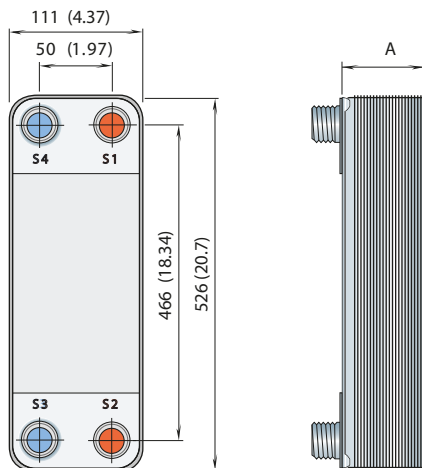
### Standard data

|  |               |
|--|---------------|
| Volume per channel, litres (gal)                   | 0.095 (0.025) |
| Max. particle size, mm (inch)                      | 1.2 (0.047)   |
| Max. flowrate <sup>1</sup> m <sup>3</sup> /h (gpm) | 14 (62)       |
| Flow directions                                    | Parallel      |
| Min. number of plates                              | 6             |
| Max. number of plates                              | 150           |

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

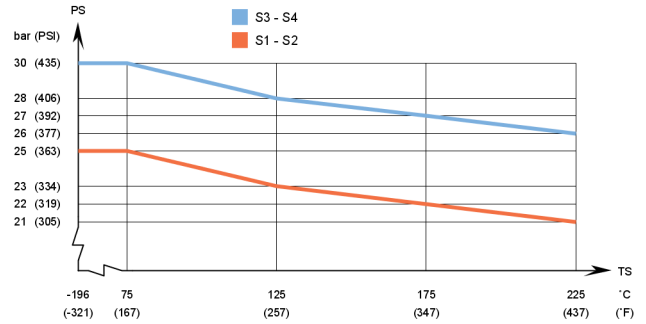
### Dimensional Drawing

mm (inches)



## Design pressure and temperature

AlfaNova 52AQ - 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.

### Certificates



CHE00148EN 2016-08

Alfa Laval reserves the right to change specifications without prior notification.

### How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information direct.