



Alfa Laval AlfaNovaTW 18

Fusion-bonded plate heat exchanger in 100% stainless steel

Introduction

Alfa Laval AlfaNovaTW fusion-bonded plate heat exchangers are made of 100% stainless steel. They are optimized to give efficient thermal performance in tap water and water-to-water applications while ensuring minimized metal leaching by its inert properties.

AlfaNovaTW provides efficient heat transfer with a small footprint, and extreme pressure fatigue resistance.

Applications

Suitable for a wide range of applications, such as:

- HVAC heating and cooling
- Domestic hot water production

Benefits

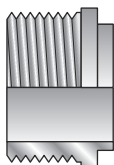
- Compact
- Easy to install
- Self-cleaning
- Low level of service and maintenance is required
- All units are pressure and leak tested
- Gasket free
- Copper free

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 ¹

A measure (mm)	$9.3 + (2.1 * n)$
A measure (inches)	$0.37 + (0.08 * n)$
Weight (kg) ²	$0.441 + (0.07 * n)$
Weight (lb) ²	$0.97 + (0.15 * n)$

¹ n = number of plates

² Excluding connections

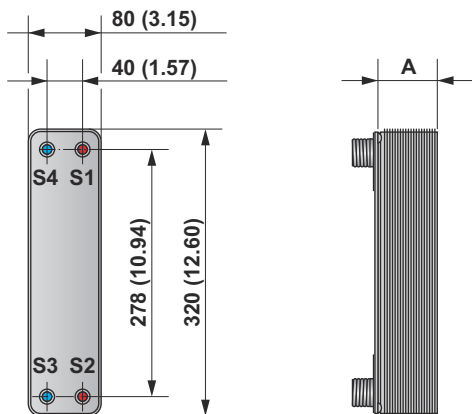
Standard data

Volume per channel, litres (gal)	0.0385 (0.0102)
Max. particle size, mm (inch)	1 (0.039)
Max. flowrate ¹ m ³ /h (gpm)	4.1 (18.1)
Flow directions	Parallel
Min. number of plates	4
Max. number of plates	50

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

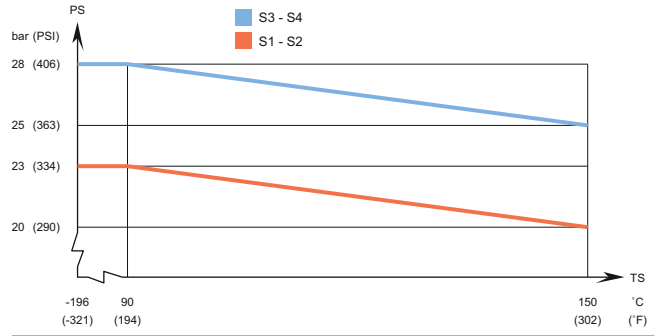
Dimensional Drawing

Measurements in mm (inches)



Design pressure and temperature

AlfaNovaTW 18 - 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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