Alfa Laval Front 6

Gasketed plate heat exchanger for hygienic applications

Introduction

Alfa Laval FrontLine is the premium range of heat exchangers used in dairy, food, beverage and other hygienic applications requiring gentle product treatment, long operating times or superior cleanability. A large range of plate and gasket types is available.

The Clip plate has a chevron type of plate pattern designed for hygienic conditions. The entry points, the distribution area and the shape and pressing depth of the plate pattern give optimal performance.

WideStream plates with special plate pattern and a limited number of contact points are available for viscous products and products containing pulp and fibres.

In addition to normal single plate configuration, this model is also available with Gemini double wall plates. Gemini plates are fully cleanable and accessible and are used as an extra precaution to avoid intermixing of fluids.



Applications

- Biotech and Pharmaceutical
- Food, Dairy and Beverages
- Home and Personal care

Benefits

- Superior hygienic safety – plates designed for food applications
- Gentle treatment of sensitive products
- Uncompromising cleanliness
- Flexible configuration – possible to rebuild the heat exchanger

Features

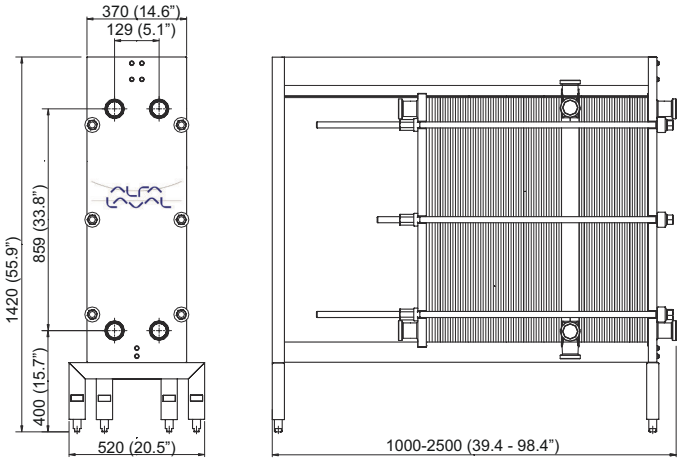
Every detail is carefully designed to ensure the highest hygienic standards, gentle product treatment and efficient cleaning. Selection of available features, depending on configuration some features may not be applicable:

Five point alignment	Ensures reliable plate positioning and easy service of large units
T-bar roller design	Provides a lower unit that is easy to service
Bearing boxes	Guarantees an easy-to-open unit for smoother, more efficient maintenance

- Five-point alignment
- Corner guided alignment system
- Chocolate pattern distribution area
- T-bar roller
- Clip-on gasket
- Leak chamber
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lock washer
- Pressure plate roller
- Interchangeable corners
- Adjustable feet
- 2-point feet support on column
- Tightening bolt cover

Dimensional drawing

Measurements mm (inches)



Technical data

Component	Material
Heat transfer plate, Single plate:	316/316L
Heat transfer plate, Gemini (hygienic) double wall plate:	Alloy 316
Heat transfer plate, WideStream	Alloy 316, Ti
Field gasket:	NBR, EPDM
Connections	Acid proof stainless steel
Frame plate and pressure plate:	Solid stainless steel, cladded stainless steel or surface coated

Other materials may be available on request.

The plate heat exchanger can be manufactured according to 3A certification.

The gaskets are produced in compliance with the regulations of FDA.

Operational data

Specification	Value
Pressure vessel codes	PED
Temperature range °C (°F)	From -10 to 150 (from 14 to 302)
Pressure range barg (psig)	From absolute vacuum to 30.0 (from absolute vacuum to 435.1)

Extended pressure and temperature rating may be available on request.

Connections

DIN, SMS, Tri-CLAMP, BS/RJT and IDF/ISO male parts.

Accessories

Available accessories for this product:

- Protection sheet

General remarks for technical information

- The global offering presented in this leaflet may not be available for all regions
- All combinations may not be configurable

Alfa Laval service offering

Our vision is to be your trusted partner for service, driving sustainable performance together. The Alfa Laval portfolio of service offers for Plate Heat Exchangers from start-up of your operations, through operation, process improvements, and replacement. Throughout the lifecycle, we bring you more than 140 years of technical experience and innovative service solutions tailored to your business needs. Easily accessible through our people all over the world.

For information about our complete service offering and how to contact us, please visit www.alfalaval.com/service.

Sustainability at Alfa Laval

At Alfa Laval we are committed to reaching net zero 2050 across our complete value chain. Our products and solutions support our customers to meet sustainability goals, boost circular business, and develop sustainable value chains. We are living our commitments by also setting clear targets to reach net zero emissions in our own operations and to reduce emissions upstream and downstream in our value chains. For more information about our sustainability journey and our sustainability targets aimed to drive efficiency and behavioural change to achieve better results in the short- and long term, please visit www.alfalaval.com/sustainability.

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