



Alfa Laval M line 15

Gasketed plate-and-frame heat exchanger for hygienic applications

Alfa Laval M line is a range of gasketed plate-and-frame heat exchangers used in dairy, food, beverage and other hygienic applications. M line is used when the design pressure is above 10 barg (145 psig) or when long plate packs are required. A large range of plate and gasket types is available.

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
- Energy and Utilities
- Food and Beverages
- Home and Personal care

Benefits

- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

Features

Every detail is carefully designed to ensure thermal efficiency, optimal performance and easy cleaning. Selection of available features:

- 5-point alignment system
- Corner guided alignment system
- Chocolate pattern distribution area
- Glued gasket
- Clip-on gasket
- Leak chamber
- Bearing box
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Pressure plate roller
- Tightening bolt cover



Extending performance

with Alfa Laval 360° Service Portfolio

Our extensive services ensure top performance from your Alfa Laval equipment throughout its life cycle. The availability of parts and our team's commitment and expertise bring you peace of mind.

Start-up

- Installation
- Installation Supervision
- Commissioning

Maintenance

- Cleaning Services
- Reconditioning
- Repair
- Service Tools
- Spare Parts

Support

- Exclusive Stock
- Technical Documentation
- Telephone Support
- Training
- Troubleshooting

Improvements

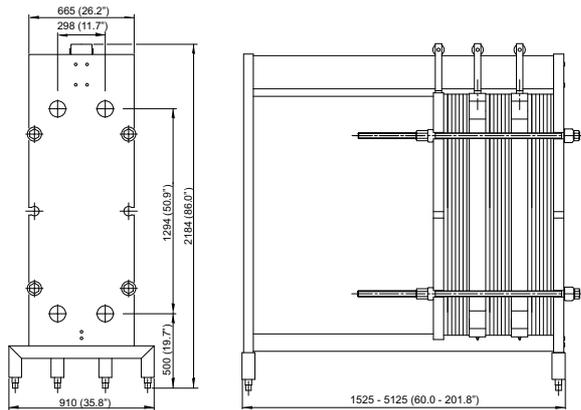
- Equipment Upgrades
- Redesign
- Replacement and Retrofit

Monitoring

- Condition Audit
- Performance Audit

Dimensional drawing

Measurements mm (inches)



Operational data

| Frame, PV-code | Max. design pressure (barg/psig) | Max. design temperature (°C/°F) |
|----------------|----------------------------------|---------------------------------|
| FMC, PED | 10.0/145 | 160/320 |
| FHC, PED | 19.0/275 | 160/320 |

Extended pressure and temperature rating may be available on request.

Technical data

Plates

| Name | Type | Free channel, mm (inches) |
|--------|----------------------------------|---------------------------|
| M15-B | Single plate | 2.5 (0.098) |
| M15-M | Single plate | 4.0 (0.16) |
| M15-BG | Gemini (hygienic) Double wall | 2.5 (0.098) |

Materials

| | |
|--------------------------|---|
| Heat transfer plates | 316/316L Ti |
| Field gaskets | NBR, EPDM |
| Connections | Acid proof stainless steel |
| Frame and pressure plate | Solid stainless steel, clad stainless steel or surface coated |

The plate heat exchanger is manufactured according to 3A certification.

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

Other materials may be available on request.

All option combinations may not be configurable.

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.