

Alfa Laval T21

Gasketed plate heat exchanger for a wide range of applications

Introduction

Alfa Laval Industrial line is a wide product range that is used in virtually all types of industry.

Suitable for a wide range of applications, this model is available with a large selection of plate and gasket types.

Applications

- Biotech and Pharmaceutical
- Chemicals
- Energy and Utilities
- Food, Dairy and Beverages
- Home and Personal care
- HVAC and Refrigeration
- Machinery and Manufacturing
- Marine and Transportation
- Mining, Minerals and Pigments
- Pulp and Paper
- Semiconductor and Electronics
- Steel
- Water and Waste treatment

Benefits

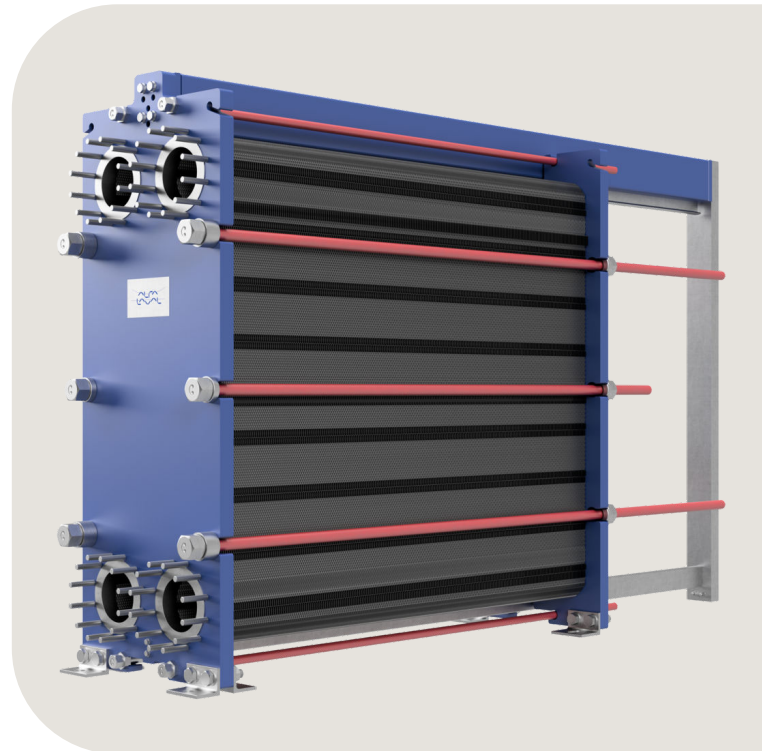
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

Features

Every detail is carefully designed to ensure optimal performance, maximum uptime and easy maintenance. Selection of available features, depending on configuration some features may not be applicable:



- Five-point alignment
- T-bar roller
- CurveFlow™ distribution area
- Glued gasket
- ClipGrip™ gasket attachment
- Offset gasket groove
- OmegaPort™ noncircular port holes
- Leak chamber



- Elongated nut
- FlexFlow™ plate design
- Compact frame
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover

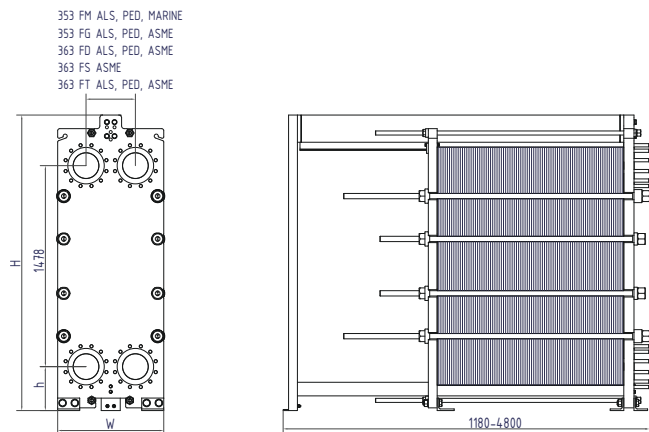
Alfa Laval 360° Service Portfolio

Our extensive service offering ensure top performance from your Alfa Laval equipment throughout its life cycle. The Alfa Laval 360 Service Portfolio include installation services, cleaning and repair as well as spare parts, technical documentation and trouble shooting. We also offer replacement, retrofit, integrity testing, monitoring and much more.

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

Dimensional drawing

Measurements mm (inches)



| Frame type | H | W | h |
|----------------------------------|----------------|-------------|-------------|
| FM ALS, PED, Marine ¹ | 2082.5 (81.9") | 755 (29.7") | 280 (11.0") |
| FG ALS, PED, ASME | 2135 (84.0") | 780 (30.7") | 285 (11.2") |
| FD ALS, PED, ASME | 2173 (85.5") | 780 (30.7") | 323 (12.7") |
| FS ASME | 2173 (85.5") | 780 (30.7") | 323 (12.7") |
| FT ALS, PED, ASME | 2173 (85.5") | 780 (30.7") | 323 (12.7") |

¹ Marine includes the pressure vessel codes: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

Technical data

| Plates | Type | Free channel, mm (inches) |
|--------|--------------|---------------------------|
| M | Single plate | 3.97 (0.15) |
| P | Single plate | 2.8 (0.11) |
| B | Single plate | 1.92 (0.075) |

Materials

| | |
|--------------------------|--|
| Heat transfer plates | 304, 316, 254, C276, D205, C2000, Alloy 33, G30, Ni, Ti, TiPd |
| Field gaskets | NBR, EPDM, FKM, HNBR, HeatSeal |
| Flange connections | Metal lined: stainless steel, 254, C276, D205, C2000, G30, Ni, Ti, TiPd Rubber lined: NBR |
| Frame and pressure plate | Carbon steel, epoxy painted |

Other materials may be available on request.

Operational data

| Frame type | Max. design pressure barg (psig) | Max. design temperature °C (°F) |
|-------------------------|----------------------------------|---------------------------------|
| FM, PED | 10.4 (151) | 200 (392) |
| FM, pvcALS | 10.4 (151) | 200 (392) |
| FM, Marine ¹ | 10.4 (151) | 100 (212) |
| FG, pvcALS | 16.0 (232) | 200 (392) |

¹ Marine includes the standards: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

| Frame type | Max. design pressure barg (psig) | Max. design temperature °C (°F) |
|------------|----------------------------------|---------------------------------|
| FG, ASME | 10.4 (151) | 250 (482) |
| FG, PED | 16.0 (232) | 200 (392) |
| FD, pvcALS | 25.0 (362) | 200 (392) |
| FD, ASME | 21.0 (304) | 250 (482) |
| FD, PED | 25.0 (362) | 200 (392) |
| FS, ASME | 36.0 (522) | 250 (482) |
| FT, PED | 40.0 (580) | 200 (392) |
| FT, ALS | 40.0 (580) | 200 (392) |
| FT, ASME | 41.4 (600) | 250 (482) |

¹ Marine includes the standards: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

Extended pressure and temperature rating may be available on request.

Connections

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



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