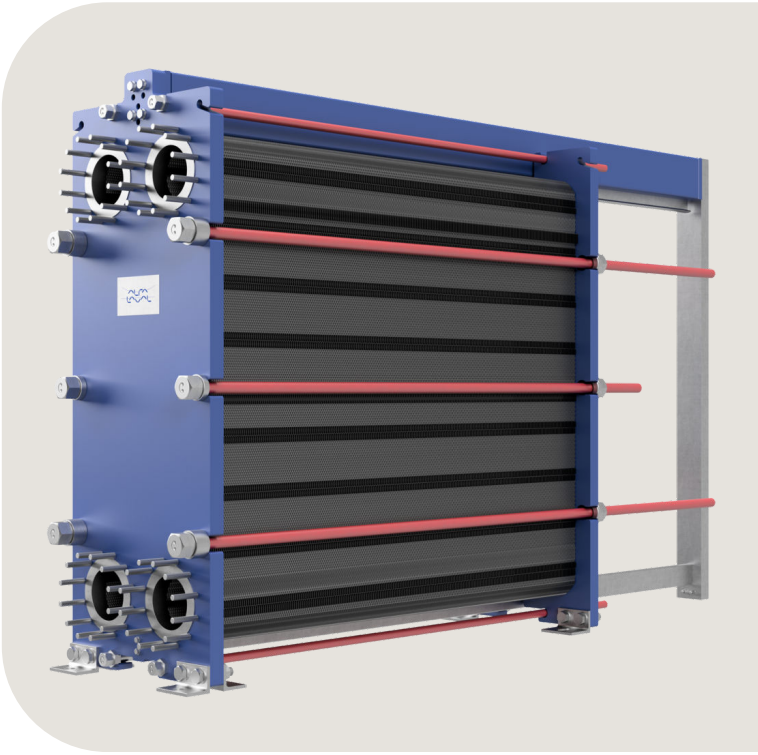
Alfa Laval T21

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

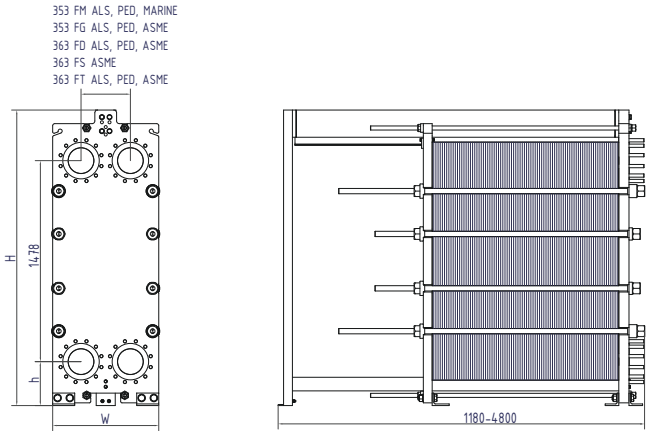
Alfa Laval 360° Service Portfolio

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)
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.

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

Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN200 PN10 ASME B16.5 Class 150 NPS 8 JIS B2220 10K 200A
FM, PED	EN 1092-1 DN200 PN10 ASME B16.5 Class 150 NPS 8
FM, Marine[1]	EN 1092-1 DN200 PN10 ASME B16.5 Class 150 NPS 8 JIS B2220 10K 200A
FG, pvcALS	EN 1092-1 DN200 PN16 EN 1092-1 DN200 PN25 ASME B16.5 Class 150 NPS 8 JIS B2220 10K 200A JIS B2220 16K 200A
FG, ASME	ASME B16.5 Class 150 NPS 8 EN 1092–1 PN16
FG, PED	EN 1092-1 DN200 PN10 EN 1092-1 DN200 PN16 EN 1092-1 DN200 PN25 ASME B16.5 Class 150 NPS 8
FD, pvcALS	EN 1092-1 DN200 PN25 ASME B16.5 Class 300 NPS 8 JIS B2220 20K 200A
FD, ASME	ASME B16.5 Class 150 NPS 8 EN1092–1 PN25 ASME B16.5 Class 300 NPS 8
FD, PED	EN 1092-1 DN200 PN25 ASME B16.5 Class 300 NPS 8
FS, ASME	ASME B16.5 Class 300 NPS 8
FT, ALS	EN 1092-1 DN200 PN40 ASME B16.5 Class 300 NPS 8 ASME B16.5 Class 400 NPS 8 JIS B2220 200A 30K
FT, PED	EN 1092-1 DN200 PN40 ASME B16.5 Class 300 NPS 8 ASME B16.5 Class 400 NPS 8
FT, ASME	ASME B16.5 Class 300 NPS 8 ASME B16.5 Class 400 NPS 8 EN 1092-1 DN200 PN40

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

Standard EN1092-1 corresponds to GOST 12815-80 and GB/T9124.1.

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How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com