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

Applications

- Biotech and Pharmaceutical
- Chemicals
- Energy and Utilities
- Food 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
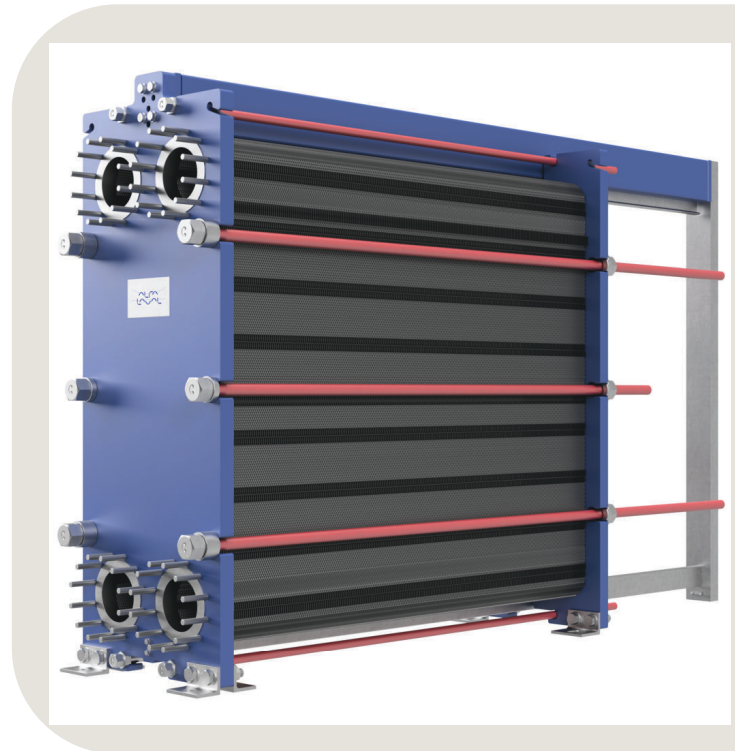
- Elongated nut
- FlexFlow™ plate design
- Compact frame
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover

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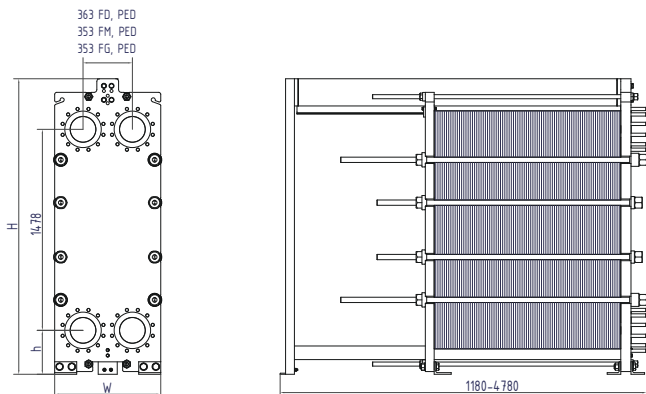
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

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

Dimensional drawing

Measurements mm (inches)

Type	H	W	h
T21-FM, PED	2082.5 (81.9")	755 (29.7")	280 (11.0")
T21-FG, PED	2135 (84.0")	780 (30.7")	285 (11.2")
T21-FD, PED	2173 (85.5")	780 (30.7")	313 (12.3")

Technical data

Plates	Type	Free channel, mm (inches)
T21-M	Single plate	3.97 (0.15)

Materials	
Heat transfer plates	304, 316, 254, C-276, C-2000, Alloy 33, G30, Ni, Ti
Field gaskets	NBR, EPDM, FKM, HNBR
Flange connections	Metal lined: stainless steel, 254, C-276, D-205, TiPd, nickel, titanium Rubber lined: NBR
Frame and pressure plate	Carbon steel, epoxy painted

Other materials may be available on request

Operational data

Frame, PV-code	Max. design pressure (barg/psig)	Max. design temperature (°C/°F)
FM, PED	10.4/151	150/302
FG, PED	16.0/232	180/356
FD, PED	25.0/362	180/356

Extended pressure and temperature rating may be available on request.

Flange connections

Frame	Connection standard
FM, PED	EN 1092-1 DN200 PN10
	ASME B16.5 Class 150 NPS 8
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, PED	EN 1092-1 DN200 PN25
	ASME B16.5 Class 300 NPS 8

Standard EN1092-1 corresponds to GOST 12815-80 and GB/T 9115.

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