

Alfa Laval T21 Semi-welded

Gasketed plate heat exchanger for demanding applications

Introduction

Alfa Laval Industrial semi-welded line is used when gaskets are not suitable for one of the process media. The semi-welded line can also withstand a higher design pressure compared to fully gasketed plate-and-frame heat exchangers.

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

Applications

- Chemicals
- Energy and Utilities
- Food, Dairy and Beverages
- HVAC and Refrigeration
- Marine and Transportation
- Mining, Minerals and Pigments
- Pulp and Paper
- 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
- Reinforced hanger
- T-bar roller
- CurveFlow™ distribution area
- Clip-on gasket
- Leak chamber
- RefTight™ sealing system
- Compact frame
- Bearing boxes
- Fixed bolt head



- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Pressure plate roller
- Tightening bolt cover
- Optimized Alfa Laval drain connection

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.

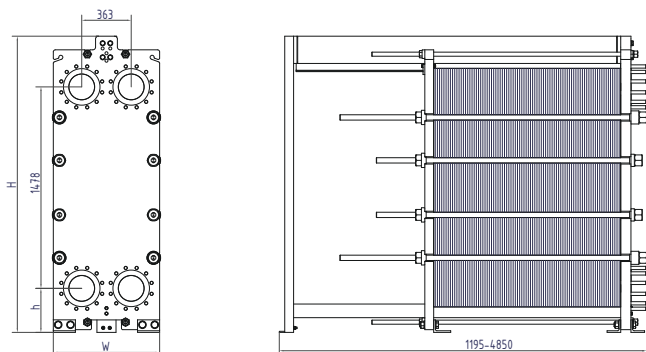
For information about our complete service offering and how to contact us, please visit www.alfalaval.com/service.

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)



Frame type	H	W	h
FG, PED	2135 (84.06")	780 (30.7")	285 (11.22")
FD, PED	2173 (85.6")	780 (30.7")	323 (12.7")
FT, ASME	2173 (85.6")	780 (30.7")	323 (12.7")
FT, PED	2173 (85.6")	780 (30.7")	323 (12.7")
FX, PED	2252 (88.6")	850 (33.5")	343 (13.5")

Technical data

Plates	Type	Free channel, mm (inches)
BWc	Semi-welded	2.5 (0.098)
BW	Semi-welded	2.52 (0.1004)

Materials

Heat transfer plates	Alloy 304, Alloy 316/316L, Alloy 254 Alloy C276 Ti
Field gaskets	NBR, EPDM, CR
Ring gaskets	NBR, EPDM, FKM, CR, HNBR, HeatSeal
Flange connections	Carbon steel Metal lined: stainless steel, titanium, SMO
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)
FG, PED	16.0 (232)	200 (392)
FD, PED	25.0 (362)	200 (392)
FT, PED	41.0 (595)	200 (392)
FT, ASME	41.4 (600)	250 (482)
FX, PED	63.0 (914)	150 (302)

Extended pressure and temperature rating may be available on request.

Flange connections

Frame type	Connection standard
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
FT, PED	EN 1092-1 DN200 PN25
	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
FX, PED	EN 1092-1 DN200 PN16
	EN 1092-1 DN200 PN25
	EN 1092-1 DN200 PN40
	EN 1092-1 DN150 PN63
	ASME B16.5 Class 150 NPS 8
	ASME B16.5 Class 300 NPS 8
	ASME B16.5 Class 600 NPS 6
	ASME B16.5 Class 900 NPS 6

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

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How to contact Alfa Laval

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