

Alfa Laval T10 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
- Pulp and Paper
- Steel
- Water and Waste treatment

Benefits

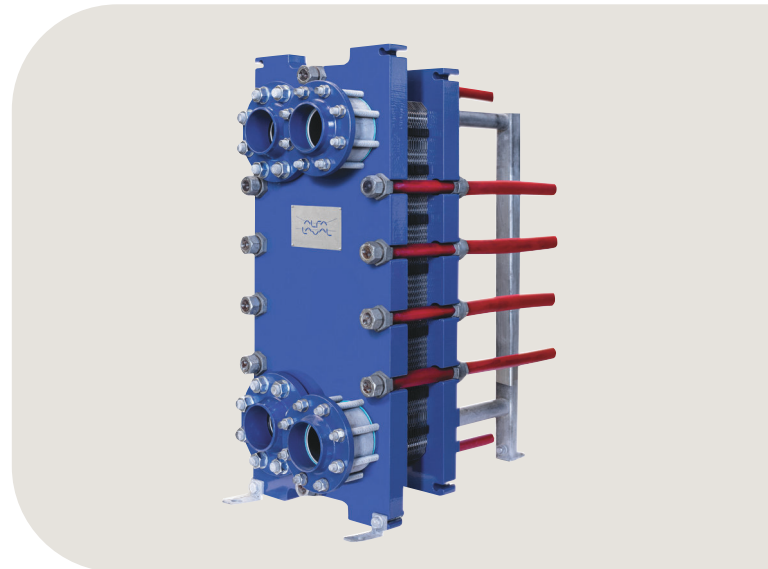
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

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:



- CurveFlow™ distribution area
- ClipGrip™ gasket attachment
- OmegaPort™ noncircular port holes
- Leak chamber
- RefTight™ sealing system
- SteerLock™ plate alignment
- Compact frame
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining



- Lock washer
- Tightening bolt cover

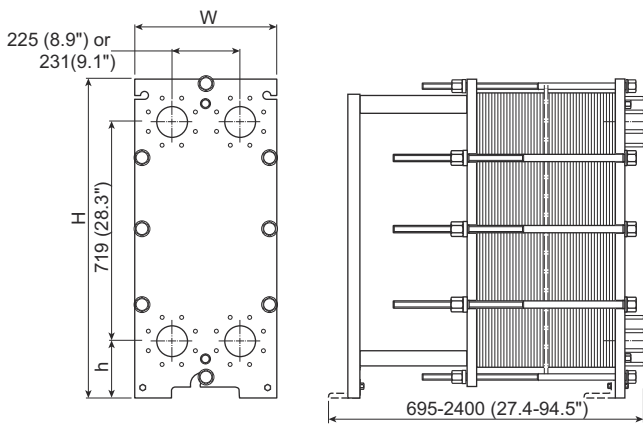
Alfa Laval 360° Service Portfolio

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
FGc, ALS, PED	1084 (42.7")	470 (18.5")	215 (8.5")
FDc, ALS	981 (38.6")	470 (18.5")	131 (5.2")
FDc, ASME	1084 (42.7")	470 (18.5")	215 (8.5")
FDRc, PED	981 (38.6")	470 (18.5")	131 (5.2")
FTc, ASME, PED	1084 (42.7")	470 (18.5")	215 (8.5")
FXc, PED	1133 (44.6")	470 (18.5")	215 (8.5")
FXc, ASME	1190 (46.9")	540 (21.2")	240 (9.4")

The number of tightening bolts may vary depending on pressure rating.

Technical data

Plates	Type	Free channel, mm (inches)
EW	Semi-welded	1.81 (0.071)

Materials	
Heat transfer plates	304/304L, 316/316L, 254 Ti
Field gaskets	NBR, EPDM NBR, EPDM, CR
Ring gaskets	NBR, EPDM, CR, HeatSeal
Flange connections	Metal lined: stainless steel, titanium Metal lined: stainless steel, Alloy 254, titanium
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)
FGc, pvcALS	16.0 (232)	180 (356)
FGc, PED	16.0 (232)	180 (356)
FDc, pvcALS	25.0 (363)	180 (356)
FDc, ASME	23.4 (339)	250 (482)
FDRc, PED	25.0 (362)	180 (356)
FTc, ASME	41.4 (600)	250 (482)
FXc, ASME	62.1 (900)	160 (320)
FXc, PED	63.0 (914)	150 (302)

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
FGc, pvcALS	EN 1092-1 DN100 PN16
	ASME B16.5 Class 150 NPS 4
	JIS B2220 16K 100A
FGc, PED	EN 1092-1 DN100 PN16
	ASME B16.5 Class 150 NPS 4
	EN 1092-1 DN100 PN25
FDc, pvcALS	ASME B16.5 Class 300 NPS 4
	JIS B2220 20K 100A
FDc, ASME	ASME B16.5 Class 300 NPS 4
FDRc, PED	EN 1092-1 DN100 PN25
	Special squared flange
FTc, PED	EN 1092-1 DN100 PN40
	ASME B16.5 Class 300 NPS 4
FTc, ASME	Special squared flange
	EN 1092-1 DN100 PN16
FXc, PED	EN 1092-1 DN100 PN25
	EN 1092-1 DN100 PN63
	ASME B16.5 Class 300 NPS 4
FXc, ASME	ASME B16.5 Class 300 NPS 4
	ASME B16.5 Class 900 NPS 4

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

RLF (Rectangular Loose Flange) in pressure plate: FG, FD, FT PED, FX PED, FX ASME

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