

Alfa Laval TL35

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.

The relatively tall plate makes this model suitable for duties with long temperature programs and when high heat recovery is appreciated. A large range of plate and gasket types is available.

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

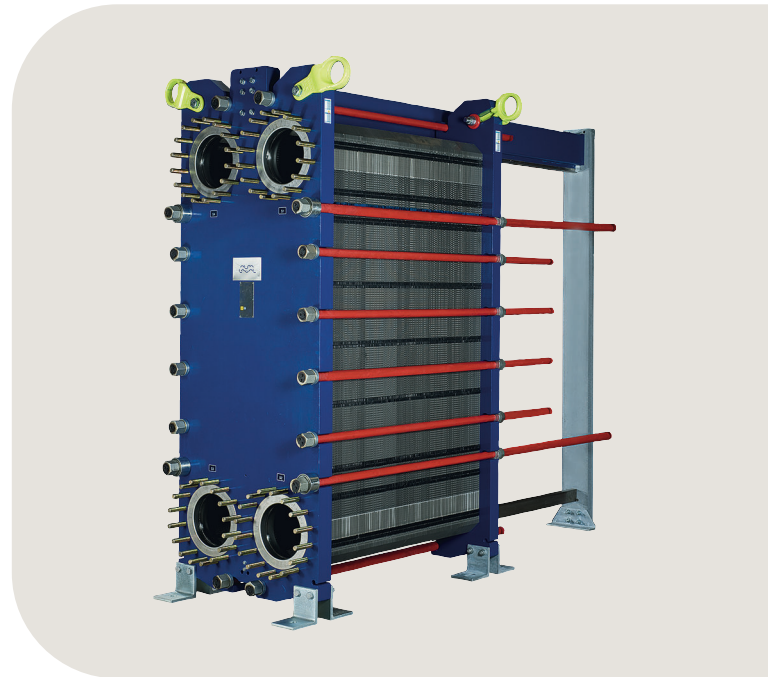
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

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
- Reinforced hanger
- Chocolate pattern distribution area
- T-bar roller
- Glued gasket
- Clip-on gasket



- Offset gasket groove
- Leak chamber
- 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.

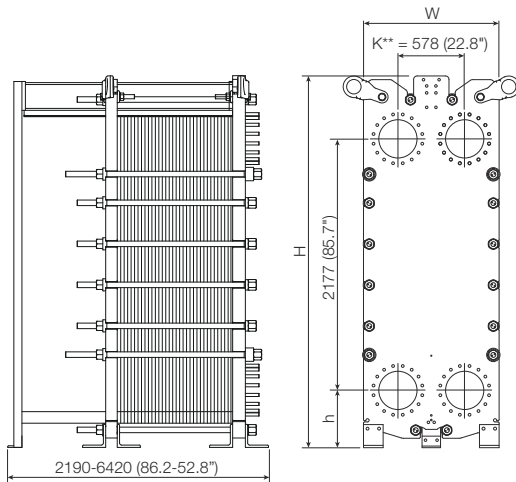
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

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
TL35-FM	3210 (126.4")	1154 (45.4")	488 (19.2")
TL35-FG	3210 (126.4")	1154 (45.4")	488 (19.2")
TL35-FD	3218 (126.7")	1174 (46.2")	496 (19.5")
TL35-FS	3218 (126.7")	1174 (46.2")	496 (19.5")

K** = 578 mm (22.8") except for following

584 (23.0")	FS PED	Size 350 DN40
589 (23.2")	FD PED, pvcALS, ASME	Size 14" ASME class 300
589 (23.2")	FS PED, ASME	Size 14" ASME class 300 or 400

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

Technical data

Plates	Type	Free channel, mm (inches)
TL35-B	Single plate	2.5 (0.098)

Materials

Heat transfer plates	304/304L, 316/316L, 254, D205 C-276 Ti
Field gaskets	NBR, EPDM, FKM, HeatSeal
Flange connections	Carbon steel Metal lined: stainless steel, Alloy C-276, titanium
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, pvcALS	10.0/145	180/356
FM, ASME	6.9/100	177/350
FM, PED	10.0/145	180/356
FG, pvcALS	16.0/232	180/356
FG, ASME	10.3/150	177/350
FG, PED	16.0/232	180/356
FD, pvcALS	25.0/363	160/320
FD, ASME	20.7/300	177/350
FD, PED	25.0/362	180/356
FS, ASME	27.6/400	177/350
FS, PED	30.0/435	180/356

Extended pressure and temperature rating may be available on request.

Flange connections

Frame model	Connection standard
FM, pvcALS	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FM, ASME	JIS B2220 10K 300A
	JIS B2220 10K 350A
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FM, PED	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FG, pvcALS	EN 1092-1 DN300 PN16
	EN 1092-1 DN350 PN16
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FG, ASME	JIS B2220 16K 300A
	JIS B2220 16K 350A
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FG, PED	EN 1092-1 DN300 PN16
	EN 1092-1 DN350 PN16
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FD, pvcALS	EN 1092-1 DN300 PN25
	EN 1092-1 DN350 PN25
	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
FD, ASME	JIS B2220 20K 300A
	JIS B2220 20K 350A
	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
FDc, ASME	EN 1092-1 DN300 PN25
	EN 1092-1 DN350 PN25
	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
FD, PED	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
	ASME B16.5 Class 400 NPS 12
	ASME B16.5 Class 400 NPS 14
FS, ASME	EN 1092-1 DN300 PN25
	EN 1092-1 DN350 PN25
	EN 1092-1 DN300 PN40
	EN 1092-1 DN350 PN40
FS, PED	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
	ASME B16.5 Class 400 NPS 12
	ASME B16.5 Class 400 NPS 14

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

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