

# 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, 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

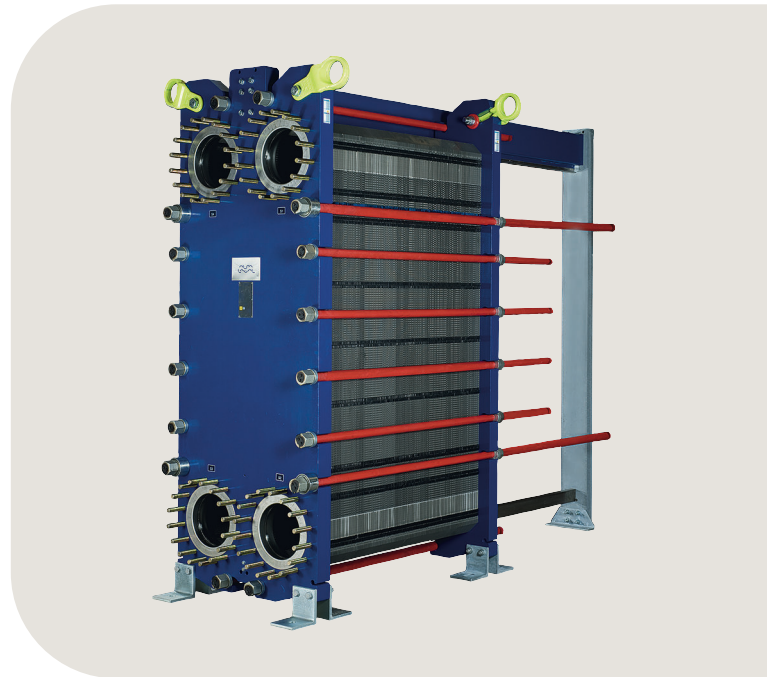
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

### 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
- 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

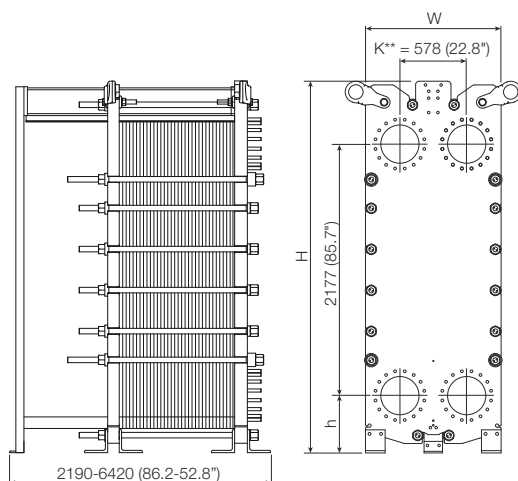
### Alfa Laval 360° Service Portfolio

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, integrity testing, monitoring and much more.

For information about our complete service offering and how to contact us - please visit [www.alfalaval.com/service](http://www.alfalaval.com/service).

## Dimensional drawing

Measurements mm (inches)



Frame type	H	W	h
FM	3210 (126.4")	1154 (45.4")	488 (19.2")
FG	3210 (126.4")	1154 (45.4")	488 (19.2")
FD	3218 (126.7")	1174 (46.2")	496 (19.5")
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)
B	Single plate	2.5 (0.098)

### Materials

Heat transfer plates	304/304L, 316/316L, 254, D205, Ni Alloy C276 Ti
Field gaskets	NBR, EPDM, FKM, HeatSeal
Flange connections	Carbon steel
Frame and pressure plate	Metal lined: stainless steel, Alloy C-276, titanium
	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	10.0 (145)	180 (356)
FM, pvcALS	10.0 (145)	180 (356)
FM, ASME	6.9 (100)	177 (350)
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 (362)	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)
FT, PED		

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 DN300 PN10
	EN 1092-1 DN350 PN10
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
	JIS B2220 10K 300A
FM, ASME	JIS B2220 10K 350A
	ASME B16.5 Class 150 NPS 12
FM, PED	ASME B16.5 Class 150 NPS 14
	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10
	ASME B16.5 Class 150 NPS 12
FG, pvcALS	ASME B16.5 Class 150 NPS 14
	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, Marine <sup>1</sup>	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
	EN 1092-1 DN300 PN16
	EN 1092-1 DN350 PN16
	ASME B16.5 Class 150 NPS 12
FG, PED	ASME B16.5 Class 150 NPS 14
	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, pvcALS	JIS B2220 20K 300A
	JIS B2220 20K 350A
	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
	JIS B2220 20K 300A
FD, ASME	JIS B2220 20K 350A
	ASME B16.5 Class 300 NPS 12
FDc, ASME	ASME B16.5 Class 300 NPS 14
	EN 1092-1 DN300 PN25
FD, PED	EN 1092-1 DN350 PN25
	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
	ASME B16.5 Class 300 NPS 12
FS, ASME	ASME B16.5 Class 300 NPS 14
	ASME B16.5 Class 400 NPS 12
	ASME B16.5 Class 400 NPS 14
	EN 1092-1 DN300 PN25
FS, PED	EN 1092-1 DN350 PN25
	EN 1092-1 DN300 PN40
	EN 1092-1 DN350 PN40
	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

<sup>1</sup> 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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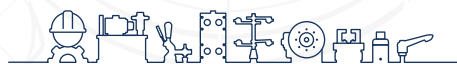
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**How to contact Alfa Laval**

Up-to-date Alfa Laval contact details for all countries are always available on our website at [www.alfalaval.com](http://www.alfalaval.com)



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