



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.

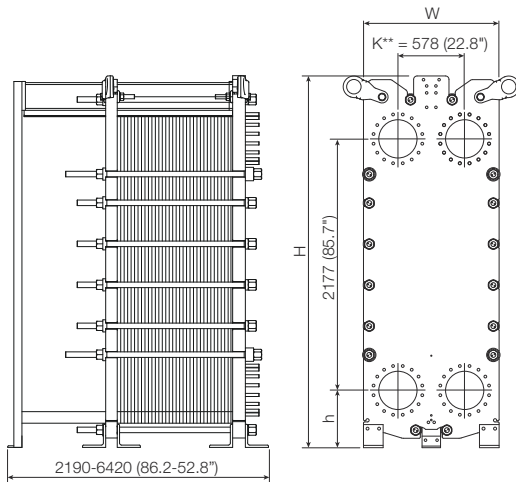
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

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 |
| 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, 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 |
| FS, ASME | 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, PED | EN 1092-1 DN300 PN40 |
| | EN 1092-1 DN350 PN40 |
| | ASME B16.5 Class 300 NPS 12 |
| | ASME B16.5 Class 300 NPS 14 |
| FS, PED | ASME B16.5 Class 400 NPS 12 |
| | ASME B16.5 Class 400 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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