



# Alfa Laval T50

## Gasketed plate-and-frame heat exchanger for a wide range of applications

Alfa Laval Industrial line is a wide product range that is used in virtually all types of industry.

Designed for high throughput, this model delivers excellent thermal performance. A large selection 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:

- 5-point alignment system
- Reinforced hanger
- Chocolate pattern distribution area
- Glued gasket
- Base-ad gasket
- Leak chamber
- Bearing box
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Pressure plate roller
- Tightening bolt cover



### Extending performance

#### with Alfa Laval 360° Service Portfolio

Our extensive services ensure top performance from your Alfa Laval equipment throughout its life cycle. The availability of parts and our team's commitment and expertise bring you peace of mind.

#### Start-up

- Installation
- Installation Supervision
- Commissioning

#### Maintenance

- Cleaning Services
- Reconditioning
- Repair
- Service Tools
- Spare Parts

#### Support

- Exclusive Stock
- Technical Documentation
- Telephone Support
- Training
- Troubleshooting

#### Improvements

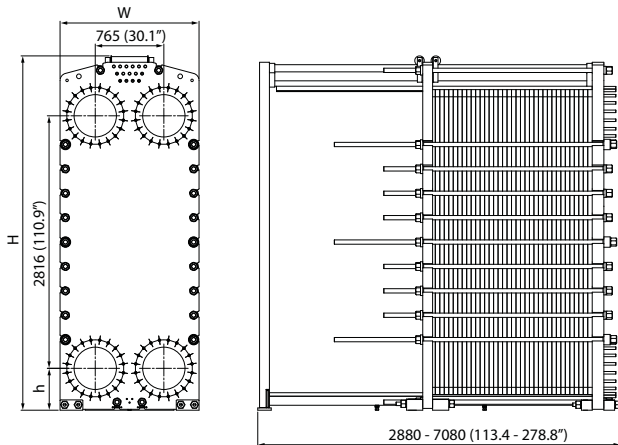
- Equipment Upgrades
- Redesign
- Replacement and Retrofit

#### Monitoring

- Condition Audit
- Performance Audit

## Dimensional drawing

Measurements mm (inches)



Type	H	W	h
T50-FM	4095 (161.2")	1550 (61.0")	467 (18.4")
T50-FG	3951 (155.5")	1550 (61.0")	467 (18.4")
T50-FD	3951 (155.5")	1550 (61.0")	467 (18.4")

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

## Technical data

### Plates

Name	Type	Free channel, mm (inches)
T50-M	Single plate	3.9 (0.15)

### Materials

Heat transfer plates	316/316L Ti
Field gaskets	NBR, EPDM
Flange connections	Carbon steel Metal lined: stainless steel, titanium
Frame and pressure plate	Carbon steel, epoxy painted

Other materials may be available on request.

All option combinations may not be configurable.

## Operational data

Frame, PV-code	Max. design pressure (barg/psig)	Max. design temperature (°C/°F)
FM, pvcALS	10.0/145	150/302
FG, ASME	10.3/150	177/350
FG, PED	16.0/232	180/356
FD, ASME	20.7/300	177/350
FD, PED	25.0/362	180/356

Extended pressure and temperature rating may be available on request.

## Flange connections

FM, pvcALS	EN 1092-1 DN500 PN10 ASME B16.5 Class 150 NPS 20
FG, ASME	ASME B16.5 Class 150 NPS 20 ASME B16.5 Class 300 NPS 20
FG, PED	EN 1092-1 DN500 PN10 EN 1092-1 DN500 PN16 ASME B16.5 Class 300 NPS 20
FD, ASME	ASME B16.5 Class 150 NPS 20 ASME B16.5 Class 300 NPS 20
FD, PED	EN 1092-1 DN500 PN25 ASME B16.5 Class 300 NPS 20

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

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Alfa Laval reserves the right to change specifications without prior notification.

### How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information direct.



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