

Alfa Laval T45

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.

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, 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

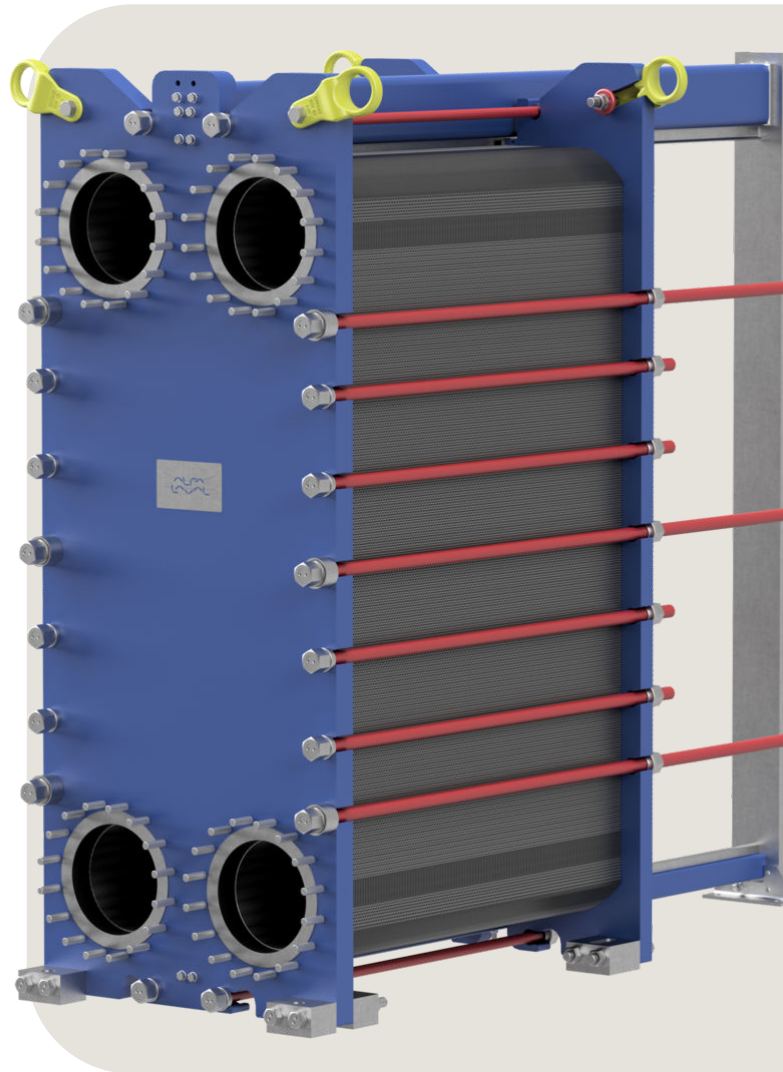
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

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
- Base-ad gasket
- Offset gasket groove



- Leak chamber
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Swing feet
- Tightening bolt cover

Alfa Laval 360° Service Portfolio

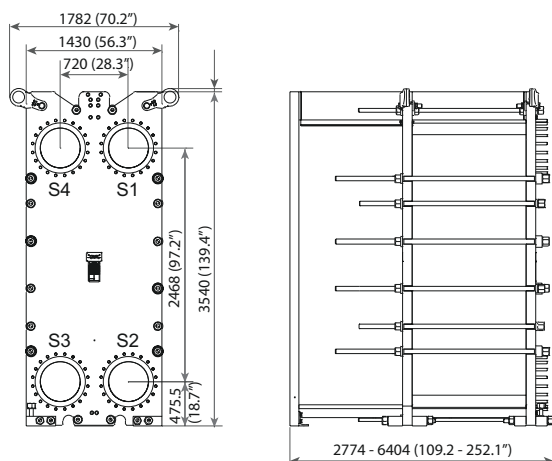
Our extensive service offering ensure top performance from your Alfa Laval equipment throughout its life cycle. The Alfa Laval 360 Service Portfolio include installation services, cleaning and repair as well as spare parts, technical documentation and trouble shooting. We also offer

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)



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

Technical data

| Plates | Type | Free channel, mm (inches) |
|--------|--------------|---------------------------|
| M | Single plate | 4.0 (0.16) |

| Materials | |
|--------------------------|---|
| Heat transfer plates | 304, 316, 254 Ti |
| Field gaskets | NBR, EPDM, HNBR |
| Flange connections | Carbon steel 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) |
|------------|----------------------------------|---------------------------------|
| FM, pvcALS | 11.0 (159) | 200 (392) |
| FG, pvcALS | 18.0 (261) | 200 (392) |
| FG, ASME | 10.4 (151) | 250 (482) |
| FG, PED | 18.0 (261) | 250 (482) |
| FD, ASME | 17.4 (252) | 250 (482) |

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

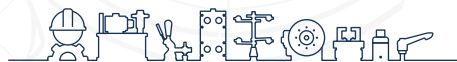
| Frame type | Connection standard |
|------------|--|
| FM, pvcALS | EN 1092-1 DN450 PN10 |
| | EN 1092-1 DN500 PN10 |
| | ASME B16.5 Class 150 NPS 18 |
| | ASME B16.5 Class 150 NPS 20 |
| | JIS B2220 10K 450A JIS B2220 10K 500A |
| FG, pvcALS | EN 1092-1 DN450 PN16 |
| | ASME B16.5 Class 150 NPS 18 |
| | JIS B2220 16K 450A |
| FG, ASME | ASME B16.5 Class 150 NPS 18 |
| FG, PED | EN 1092-1 DN450 PN16 |
| | ASME B16.5 Class 150 NPS 18 |
| FD, ASME | ASME B16.5 Class 150 NPS 18 |
| | ASME B16.5 Class 300 NPS 18 |

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

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