

Alfa Laval T21

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.

Suitable for a wide range of applications, this model is available with a large selection of plate and gasket types.

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:



CurveFlow™ distribution area

Improves media flow and minimizes the risk of fouling



OmegaPort™ noncircular port holes

Enhances media flow and thermal efficiency



FlexFlow™ plate design

Improves thermal efficiency and optimizes pressure drop utilization



ClipGrip™ gasket attachment

Ensures perfect seal and trouble-free maintenance



Offset gasket groove

Ensures plate utilization for maximum heat transfer efficiency



Five point alignment

Ensures reliable plate positioning and easy service of large units



T-bar roller design

Provides a lower unit that is easy to service



Bearing boxes

Guarantees an easy-to-open unit for smoother, more efficient maintenance



Compact frame

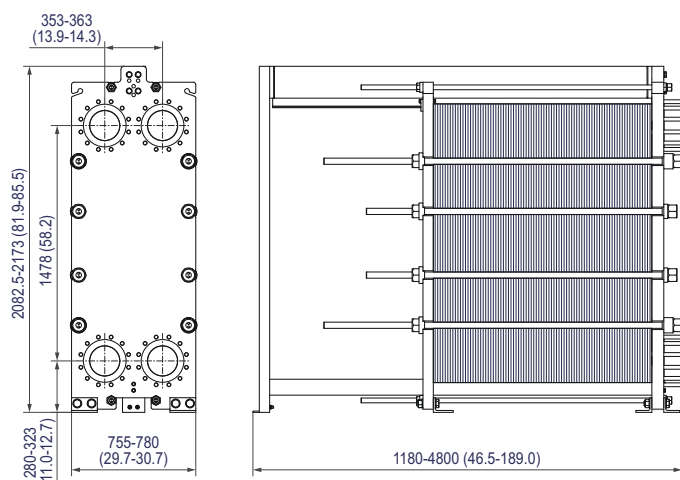
Facilitates maintenance and minimizes service area requirement

- Five-point alignment
- T-bar roller

- CurveFlow™ distribution area
- Glued gasket
- ClipGrip™ gasket attachment
- Offset gasket groove
- OmegaPort™ noncircular port holes
- Leak chamber
- Elongated nut
- FlexFlow™ plate design
- Compact frame
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover

Dimensional drawing

Measurements mm (inches)



Technical data

Component	Material
Heat transfer plate, Single plate:	304, 316, 254, C276, D205, C2000, Alloy 33, G30, Ni, Ti, TiPd
Field gasket:	NBR, EPDM, FKM, HNBR, HeatSeal
Frame plate and pressure plate:	Carbon steel, epoxy painted

Other materials may be available on request.

Operational data

Specification	Value
Pressure vessel codes	pvcALS, ASME, PED, Marine ¹
Temperature range °C (°F)	From -50 to +250 (from -58 to 482)
Pressure range barg (psig)	From absolute vacuum to 62.1 (from absolute vacuum to 900.7)

¹ Marine includes the standards: ABS, BV, CCS, ClassNK, DNV, KR, LR, and RINA.

Extended pressure and temperature rating may be available on request.

Flange connections

ASME B16.5, EN 1092-1 and JIS B22220 studded ports are available depending on your pressure vessel code and design requirements. Please contact Alfa Laval for more details.

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

Accessories

Available accessories for this product:

- Drip tray
- Protection sheet
- Cooling insulation
- Heating insulation
- Port filter
- Connectivity sensor kit (Smart heat exchanger)
- Counter flange
- Earthing

- Tightening bolt protection
- Lifting device

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

Alfa Laval service offering

Our vision is to be your trusted partner for service, driving sustainable performance together. The Alfa Laval portfolio of service offers for Plate Heat Exchangers from start-up of your operations, through operation, process improvements, and replacement. Throughout the lifecycle, we bring you more than 140 years of technical experience and innovative service solutions tailored to your business needs. Easily accessible through our people all over the world.

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

Sustainability at Alfa Laval

At Alfa Laval we are committed to reaching net zero 2050 across our complete value chain. Our products and solutions support our customers to meet sustainability goals, boost circular business, and develop sustainable value chains. We are living our commitments by also setting clear targets to reach net zero emissions in our own operations and to reduce emissions upstream and downstream in our value chains. For more information about our sustainability journey and our sustainability targets aimed to drive efficiency and behavioural change to achieve better results in the short- and long term, please visit www.alfalaval.com/sustainability.

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