

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:



Offset gasket groove

Ensures plate utilization for maximum heat transfer efficiency

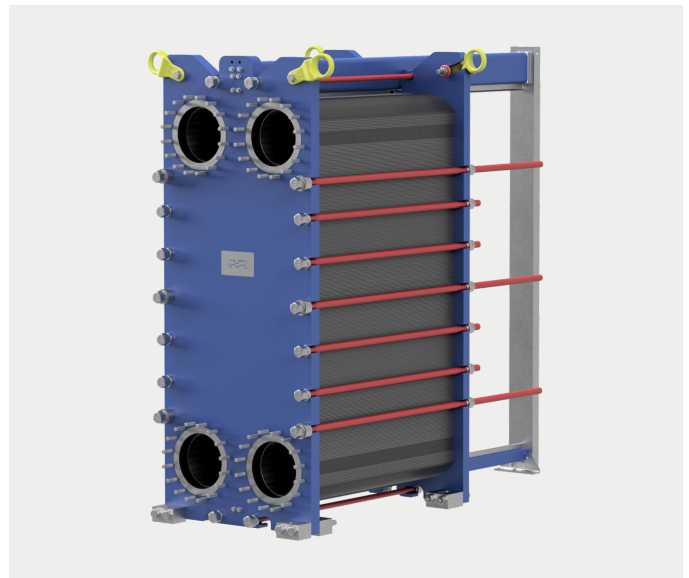


Five point alignment

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

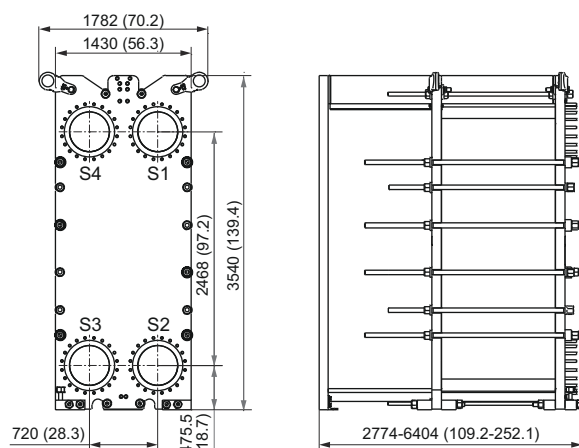
- Five-point alignment
- Reinforced hanger
- Chocolate pattern distribution area
- T-bar roller
- Glued gasket
- Base-ad gasket
- Offset gasket groove
- Leak chamber
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Swing feet
- Tightening bolt cover

Dimensional drawing

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

The height may vary depending on the choice of feet.

Measurements mm (inches)



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

Technical data

Component	Material
Heat transfer plate, Single plate:	304, 316, 254
Field gasket:	NBR, EPDM, HNBR
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
Temperature range °C (°F)	From -50 to +250 (from -58 to 482)
Pressure range barg (psig)	From absolute vacuum to 27.0 (from absolute vacuum to 391.6)

Extended pressure and temperature rating may be available on request.

Flange connections

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

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

Accessories

Available accessories for this product:

- Protection sheet
- Port filter
- 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.

This document and its contents are subject to copyrights and other intellectual property rights owned by Alfa Laval AB (publ) or any of its affiliates (jointly "Alfa Laval"). No part of this document may be copied, re-produced or transmitted in any form or by any means, or for any purpose, without Alfa Laval's prior express written permission. Information and services provided in this document are made as a benefit and service to the user, and no representations or warranties are made about the accuracy or suitability of this information and these services for any purpose. All rights are reserved.

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