



Alfa Laval TS20

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 short plate makes this model suitable for duties with short temperature programs and when a low pressure drop 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

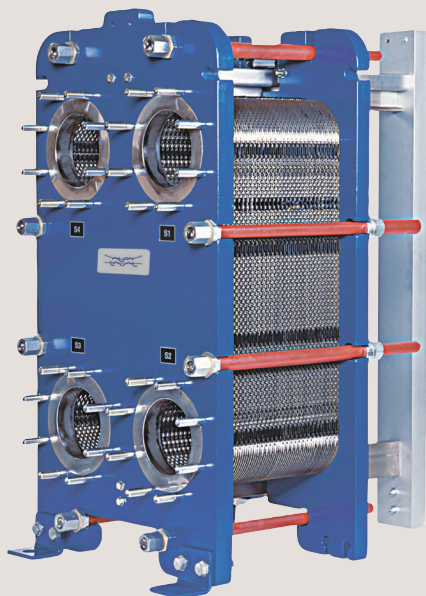
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

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
- Corner guided alignment system
- Chocolate pattern distribution area
- Glued gasket
- Clip-on gasket
- Leak chamber



- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Pressure plate roller
- 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.

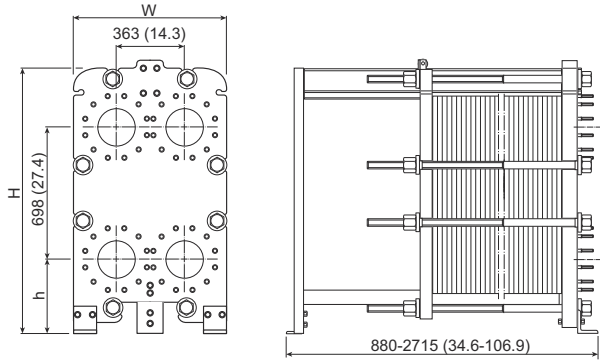
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

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
TS20-FM	1405 (55.3")	740 (29.1")	360 (14.2")
TS20-FG	1405 (55.3")	800 (31.5")	360 (14.2")
TS20-FS	1435 (56.5")	800 (31.5")	390 (15.4")

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

Technical data

Plates	Type	Free channel, mm (inches)
TS20-M	Single plate	4.0 (0.16)

Materials

Heat transfer plates	316/316L, 254 C-276, C-2000 Ni, Ti, TiPd
Field gaskets	NBR, EPDM, FKM, HeatSeal Carbon steel
Flange connections	Metal lined: stainless steel, Alloy C-276, titanium Rubber lined: NBR, EPDM
Frame and pressure plate	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, PED	10.0/145	210/410
FG, pvcALS	16.0/232	180/356
FG, ASME	10.3/150	177/350
FG, PED	16.0/232	180/356
FS, ASME	31.7/460	177/350
FS, PED	30.0/435	160/320

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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

Extended pressure and temperature rating may be available on request.

Flange connections

Frame model	Connection standard
FM, pvcALS	EN 1092-1 DN200 PN10
	ASME B16.5 Class 150 NPS 8
	JIS B2220 10K 200A
FM, PED	EN 1092-1 DN200 PN10
	ASME B16.5 Class 150 NPS 8
FG, pvcALS	EN 1092-1 DN200 PN10
	ASME B16.5 Class 150 NPS 8
	JIS B2220 10K 200A
FG, ASME	ASME B16.5 Class 150 NPS 8
FG, PED	EN 1092-1 DN200 PN16
	ASME B16.5 Class 150 NPS 8
FS, ASME	ASME B16.5 Class 150 NPS 8
	ASME B16.5 Class 300 NPS 8
FS, PED	EN 1092-1 DN200 PN25
	EN 1092-1 DN200 PN40
	ASME B16.5 Class 300 NPS 8

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