

# Alfa Laval AQ14

## Gasketed plate heat exchanger for HVAC applications

### Introduction

Alfa Laval AlfaQ™ is AHRI Certified® through the Liquid to Liquid Heat Exchangers (LLHE) Certification Program which ensures thermal performance in accordance with the product specifications.

Designed for high throughput, this model delivers excellent thermal performance. A large selection of plate and gasket types is available.

### Applications

- HVAC

### Benefits

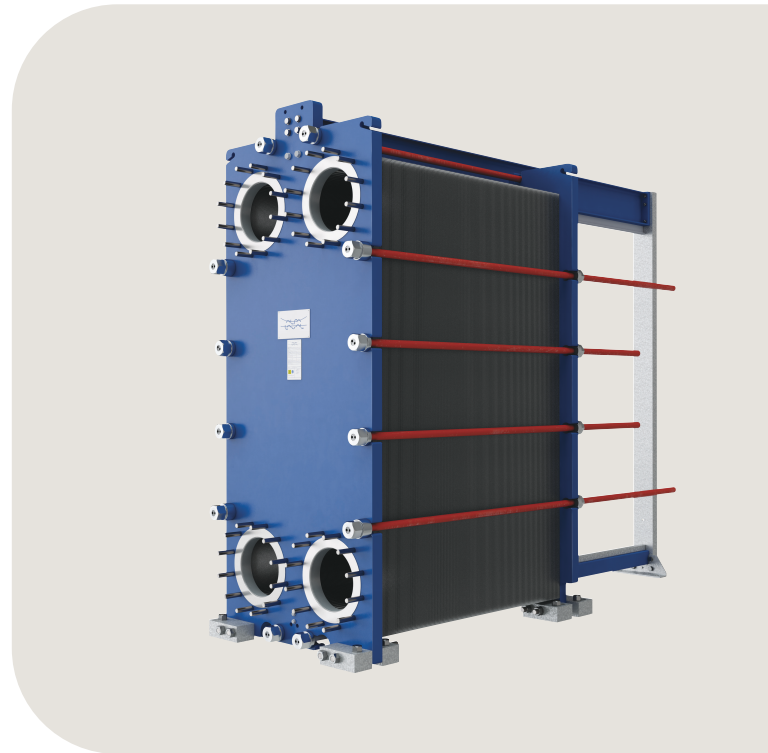
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

### 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
- T-bar roller
- CurveFlow™ distribution area
- Glued gasket
- PowerArc™ plate pattern divider
- ClipGrip™ gasket attachment
- Offset gasket groove
- OmegaPort™ noncircular port holes
- Leak chamber
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- 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.

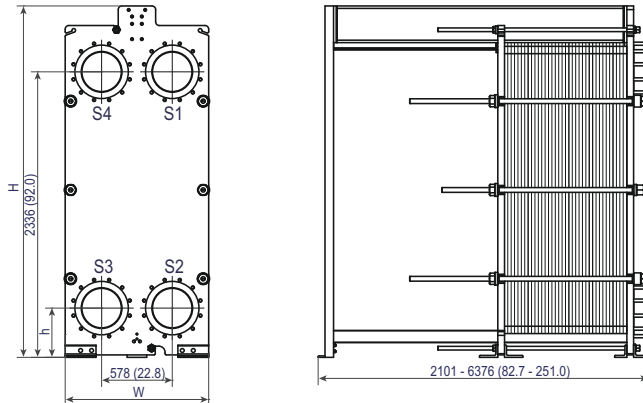
For information about our complete service offering and how to contact us - please visit [www.alfalaval.com/service](http://www.alfalaval.com/service).

## 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)



Frame type	H	W	h
FL, ALS	2875 (113.2")	1174 (46.2")	403 (15.9")
FM, ALS, PED, Marine <sup>1</sup>	2875 (113.2")	1174 (46.2")	403 (15.9")
FG, ALS, ASME, PED	2875 (113.2")	1174 (46.2")	403 (15.9")
FD, ALS, ASME, PED	2875 (113.2")	1174 (46.2")	403 (15.9")
FS, PED	2875 (113.2")	1174 (46.2")	403 (15.9")
FS, ASME	2875 (113.2")	1187 (46.7")	403 (15.9")

<sup>1</sup> Marine includes the PV-codes: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

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

## Technical data

Plates	Type	Free channel, mm (inches)
T35-P	Single plate	3.4 (0.13)

### Materials

Heat transfer plates	304/304L, 316/316L, 904L, 254 C-276, C-2000 G-30 Ti, TiPd
Field gaskets	NBR, EPDM, FKM
Flange connections	Carbon steel Metal lined: stainless steel, Alloy C-276, 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)
FL, pvcALS	6.0 (87)	100 (212)
FM, pvcALS	10.3 (150)	120 (248)
FM, PED	10.3 (150)	180 (356)
FM, Marine <sup>1</sup>	10.0 (145)	100 (212)
FG, pvcALS	16.0 (232)	180 (356)
FG, ASME	10.3 (150)	250 (482)
FG, PED	16.0 (232)	180 (356)
FD, pvcALS	25.0 (362)	180 (356)
FD, ASME	20.7 (300)	250 (482)

<sup>1</sup> Marine standard includes the standards: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

Frame type	Max. design pressure barg (psig)	Max. design temperature °C (°F)
FD, PED	25.0/362	180 (356)
FS, ASME	27.6 (400)	250 (482)
FS, PED	30.0 (435)	180 (356)

<sup>1</sup> Marine standard includes the standards: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

Extended pressure and temperature rating may be available on request.

## Flange connections

Frame type	Connection standard
FL, pvcALS	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FM, pvcALS	JIS B2220 10K 300A
	JIS B2220 10K 350A
	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10
FM, PED	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
	JIS B2220 10K 300A
	JIS B2220 10K 350A
FM, Marine <sup>1</sup>	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10
	ASME B16.5 Class 150 NPS 6
	ASME B16.5 Class 150 NPS 12
FG, pvcALS	JIS B2220 10K 300A
	JIS B2220 10K 350A
	EN 1092-1 DN300 PN16
	EN 1092-1 DN350 PN16
FG, ASME	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
	EN 1092-1 DN300 PN16
	EN 1092-1 DN350 PN16
FG, PED	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
	JIS B2220 16K 300A
	JIS B2220 16K 350A
FD, pvcALS	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
	JIS B2220 20K 300A
	JIS B2220 20K 350A
FD, ASME	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
FD, PED	EN 1092-1 DN300 PN25
	EN 1092-1 DN350 PN25
	ASME B16.5 Class 300 NPS 12
FS, ASME	ASME B16.5 Class 400 NPS 12
	ASME B16.5 Class 400 NPS 14
FS, PED	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
	ASME B16.5 Class 400 NPS 12

<sup>1</sup> Marine includes the standards: ABS, BV, CCS, DNV, ClassNK, KR, LR, RINA, and RMRS.

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

## Certificates



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### How to contact Alfa Laval

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