

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

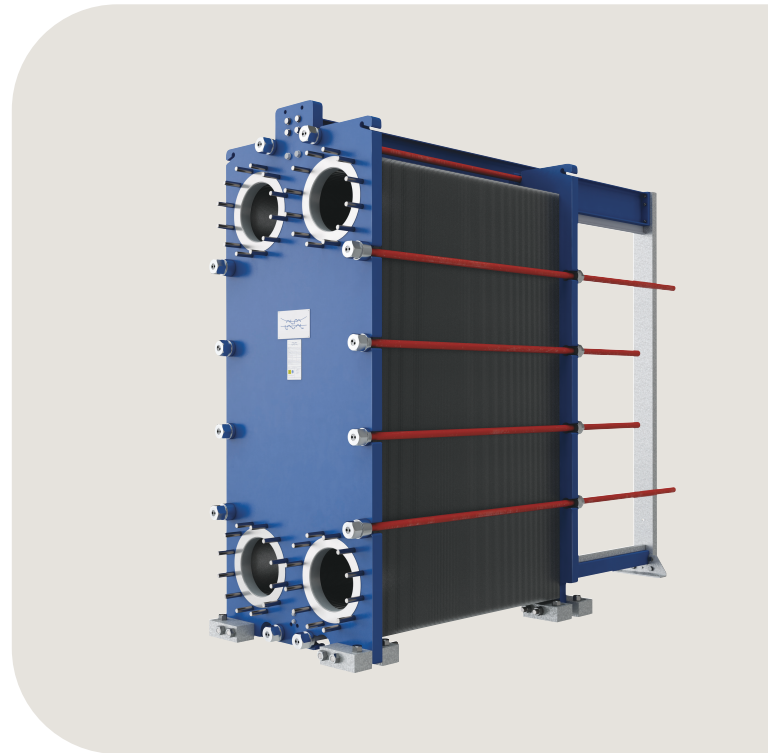
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

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



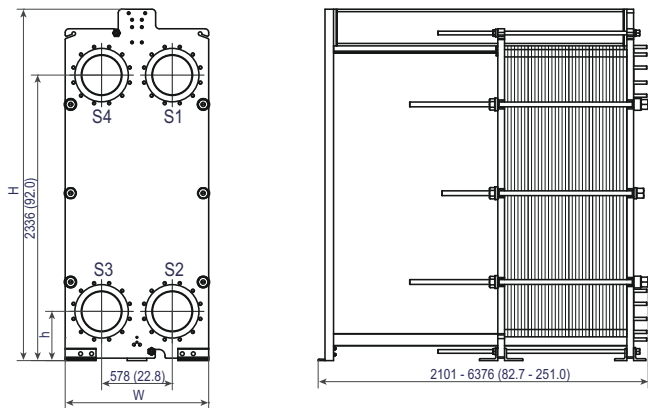
Alfa Laval 360° Service Portfolio

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.

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 ¹ | 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") |

¹ Marine includes the pressure vessel 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) |
|--------|--------------|---------------------------|
| P | Single plate | 3.4 (0.13) |

| Materials | |
|--------------------------|---|
| Heat transfer plates | 304/304L, 316/316L, 904L, 254 C276, C2000 G30 Ti, TiPd 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, PED | 10.3 (150) | 180 (356) |
| FM, pvcALS | 10.3 (150) | 120 (248) |
| FM, Marine ¹ | 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) |
| FD, PED | 25.0 (362) | 180 (356) |
| FS, ASME | 27.6 (400) | 250 (482) |
| FS, PED | 30.0 (435) | 180 (356) |

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

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 |
|-------------------------|---|
| 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 |
| | JIS B2220 10K 300A JIS B2220 10K 350A |
| FM, 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 JIS B2220 10K 300A JIS B2220 10K 350A |
| FM, PED | EN 1092-1 DN300 PN10 |
| | EN 1092-1 DN350 PN10 |
| FM, Marine ¹ | ASME B16.5 Class 150 NPS 12 |
| | ASME B16.5 Class 150 NPS 14 |
| | EN 1092-1 DN300 PN10 |
| | EN 1092-1 DN350 PN10 |
| | ASME B16.5 Class 150 NPS 6 JIS B2220 10K 300A JIS B2220 10K 350A |
| FG, pvcALS | EN 1092-1 DN300 PN16 |
| | EN 1092-1 DN350 PN16 |
| | ASME B16.5 Class 150 NPS 12 |
| | ASME B16.5 Class 150 NPS 14 |
| | JIS B2220 16K 300A JIS B2220 16K 350A |
| FG, ASME | ASME B16.5 Class 150 NPS 12 |
| | ASME B16.5 Class 150 NPS 14 |
| FG, PED | EN 1092-1 DN300 PN16 |
| | EN 1092-1 DN350 PN16 |
| | ASME B16.5 Class 150 NPS 12 ASME B16.5 Class 150 NPS 14 |
| FD, pvcALS | EN 1092-1 DN300 PN25 |
| | EN 1092-1 DN350 PN25 |
| | 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 ASME B16.5 Class 300 NPS 14 |
| 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 ASME B16.5 Class 400 NPS 14 |

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

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

Certificates



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How to contact Alfa Laval

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