

Alfa Laval AQ4

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.

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

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:

- Corner guided alignment system
- Chocolate pattern distribution area
- Glued gasket
- Clip-on gasket
- Leak chamber
- 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, monitoring and much more.



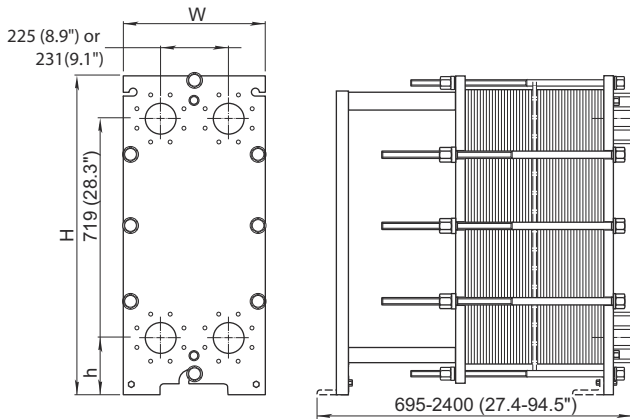
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

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
M10-FM	1084 (42.7")	470 (18.5")	215 (8.5")
M10-FG	1084 (42.7")	470 (18.5")	215 (8.5")
M10-FD	981 (38.6")	470 (18.5")	131 (5.2")
M10-FD, ASME	1084 (42.7")	470 (18.5")	215 (8.5")

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

Technical data

Plates	Type	Free channel, mm (inches)
M10-B	Single plate	2.6 (0.10)
M10-M	Single plate	4.0 (0.16)
M10-MX	Single plate, Diagonal flow	4.0 (0.16)

Materials

Heat transfer plates	316/316L, 316Ti, 904L, 254
	C-22, C-276, C-2000, D-205
	B-3, G-30, 400, 625, 825
Field gaskets	Alloy 33, Ni, Ti, TiPd
	NBR, EPDM, FKM, Q, HeatSeal
Flange connections	Carbon steel
	Metal lined: stainless steel, titanium
Frame and pressure plate	Rubber lined: NBR, EPDM
	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)
FL, pvcALS	6.0/87	130/266
FM, pvcALS	10.0/145	180/356

Frame, PV-code	Max. design pressure (barg/psig)	Max. design temperature (°C/°F)
FM, PED	10.0/145	180/356
FG, pvcALS	16.0/232	180/356
FG, ASME	10.3/150	250/482
FG, PED	16.0/232	180/356
FD, pvcALS	25.0/363	180/356
FD, ASME	26.8/389	250/482

Extended pressure and temperature rating may be available on request.

The FG frame is also approved for 12 barg/200°C to allow use in steam systems without safety valves.

Flange connections

Frame model	Connection standard
FL, pvcALS	EN 1092-1 DN100 PN10
	JIS B2220 10K 100A
FM, pvcALS	EN 1092-1 DN100 PN10
	ASME B16.5 Class 150 NPS 4
FM, PED	JIS B2220 10K 100A
	EN 1092-1 DN100 PN10
FG, pvcALS	ASME B16.5 Class 150 NPS 4
	EN 1092-1 DN100 PN16
FG, ASME	ASME B16.5 Class 100A
	JIS B2220 16K 100A
FG, PED	ASME B16.5 Class 150 NPS 4
	EN 1092-1 DN100 PN16
FD, ASME	ASME B16.5 Class 150 NPS 4
	ASME B16.5 Class 300 NPS 4 (Rectangular Loose Flange)
FDc, ASME	EN 1092-1 DN100 PN25
	ASME B16.5 Class 150 NPS 4
FD, PED	ASME B16.5 Class 300 NPS 4
	ASME B16.5 Class 150 NPS 4

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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