



AQ6

AlfaQ™ AHRI-certified plate heat exchanger

Applications

General heating and cooling duties.

Standard design

The plate heat exchanger consists of a pack of corrugated metal plates with portholes for the passage of the two fluids between which heat transfer will take place.

The plate pack is assembled between a fix frame plate and a movable pressure plate and compressed by tightening bolts. The plates are fitted with a gasket which seals the interplate channel and directs the fluids into alternate channels. The number of plates is determined by the flow rate, physical properties of the fluids, pressure drop and temperature program. The plate corrugations promote fluid turbulence and support the plates against differential pressure.

The plate and the pressure plate are suspended from an upper carrying bar and located by a lower guiding bar, both of which are fixed to a support column.

Connections are located in the frame plate or, if either or both fluids make more than a single pass within the unit, in the frame and pressure plates.

Typical capacities

Liquid flow rate

Up to 80 kg/s (1300 gpm), depending on media, permitted pressure drop and temperature program.

Plate types

AQ6, AQ6M, AQ6D - double wall plates

Frame types

FM, FG and FD

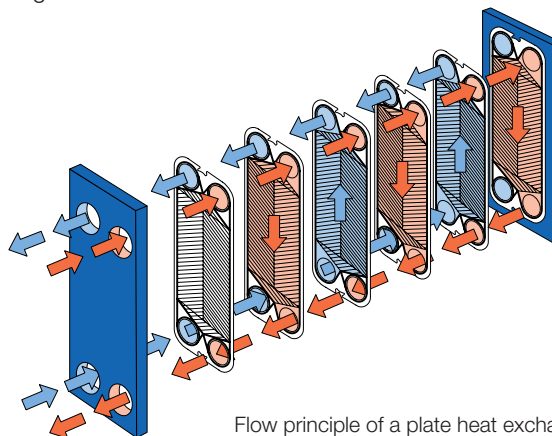
Working principle

Channels are formed between the plates and the corner ports are arranged so that the two media flow through alternate channels. The heat is transferred through the plate between the channels, and complete counter-current flow is created for highest possible efficiency. The corrugation of the plates



AQ6-FM

provides the passage between the plates, supports each plate against the adjacent one and enhances the turbulence, resulting in efficient heat transfer.



Flow principle of a plate heat exchanger

STANDARD MATERIALS

Frame plate

Mild steel, painted

Nozzles

Carbon steel

Metal lined: Stainless steel, Titanium

Rubber lined: Nitrile, EPDM

Plates

Stainless steel: Alloy 304, Alloy 316

Titanium

Gaskets

Nitrile, EPDM

TECHNICAL DATA

Pressure vessel codes, PED, ASME, pvcALS™

Mechanical design pressure (g) / temperature

FM	PED, pvcALS™	1.0 MPa / 180°C
FG	PED, pvcALS™	1.6 MPa / 180°C
FG	ASME	150 psig / 482°F
FD	PED, pvcALS™	3.0 MPa / 180°C
FD	ASME	300 psig / 356°F

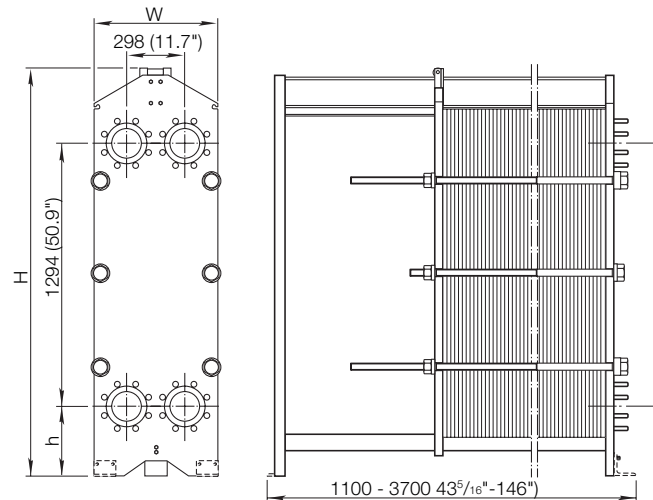
CONNECTIONS

FM	PED	Size 150 mm	DIN PN 10 ASME Cl. 150
FM	pvcALS™	Size 150 mm	DIN/GB/GOST PN10, ASME Cl. 150, JIS 10K
FG	PED	Size 150 mm	DIN PN16, ASME Cl. 150
FG	pvcALS™	Size 150 mm	DIN/GB/GOST PN16, ASME Cl. 150, JIS 10/16K
FG	ASME	Size 6"	ASME Cl. 150
FD	PED	Size 150 mm	DIN PN25, ASME Cl. 300
FD	ASME	Size 6"	ASME Cl. 300

Maximum heat transfer surface

390 m² (4200 sq. ft)

Dimensions



Measurements mm (inch)

Type	H	W	h
AQ6-FM	max. 1941 (76 1/2")	610 (24")	275 (10 3/4")
AQ6-FG	max. 1941 (76 1/2")	650 (25 1/2")	275 (10 3/4")
AQ6-FD	max. 2036 (80")	650 (25 1/2")	370 (14 1/2")

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

Particulars required for quotation

- Flow rates or heat load
- Temperature program
- Desired working pressure
- Maximum permitted pressure drop



ECF00369EN 1203

All rights reserved for changes in specifications

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

GIAFLEX

GIA-S d.o.o., Industrijska cesta 5, 1290 Grosuplje, Slovenija
 Telefon: +386 1 7865 300, Telefax: +386 1 7863 568,
info@gia.si, www.giaflex.com