



## MX25

### Plate heat exchanger

#### Applications

Plate heat exchanger for 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 250 kg/s (4000gpm), depending on media, permitted pressure drop and temperature program.

#### Plate types

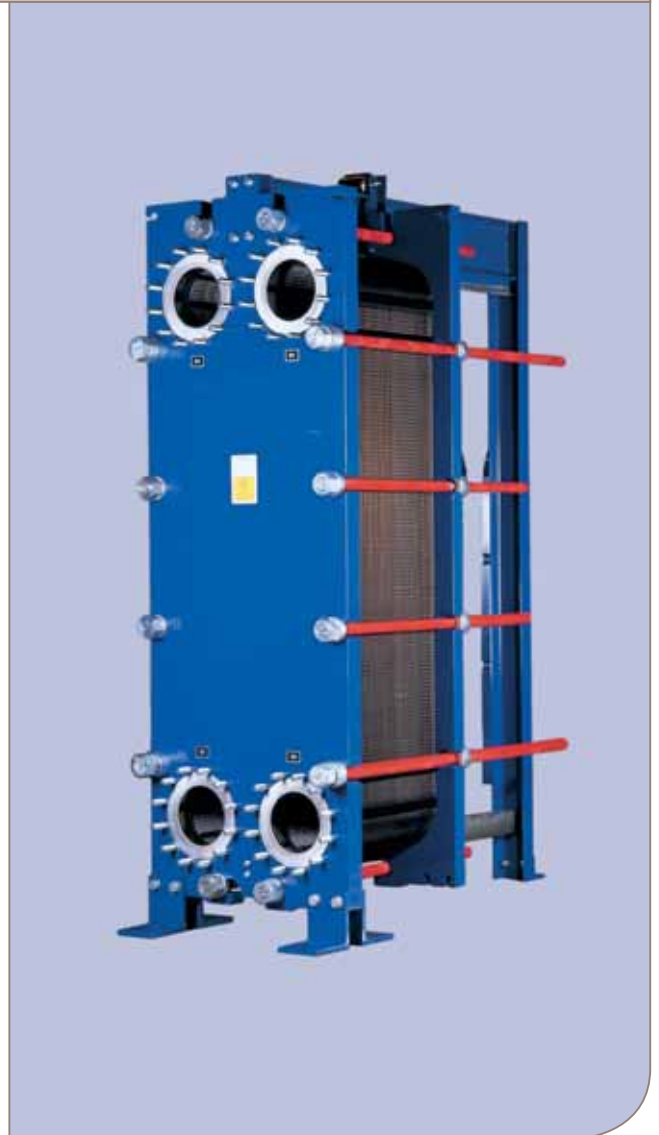
MX25B and MX25M plates

#### Frame types

FMS, FGS, FG, FD and FS

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



MX25-BFG

## STANDARD MATERIALS

### Frame plate

Mild steel, Epoxy painted

### Nozzles

Carbon steel

Metal lined: Stainless steel, Titanium

Rubber lined: Nitrile, EPDM

### Plates

Stainless Steel AISI 304, AISI316 or Titanium

### Gaskets

Nitrile or EPDM

## TECHNICAL DATA

Pressure vessel codes PED, ASME, pvcALS™

Mechanical design pressure (g) / temperature

FMS PED, pvcALS™ 1.0 MPa / 180°C

FGS PED, pvcALS™ 1.6 MPa / 180°C

FGS ASME

150 psig / 350°F

FG PED, pvcALS™ 1.6 MPa / 180°C

FG ASME

150 psig / 350°F

FD PED, pvcALS™ 2.5 MPa / 180°C

FD ASME

300 psig / 350°F

FS ASME

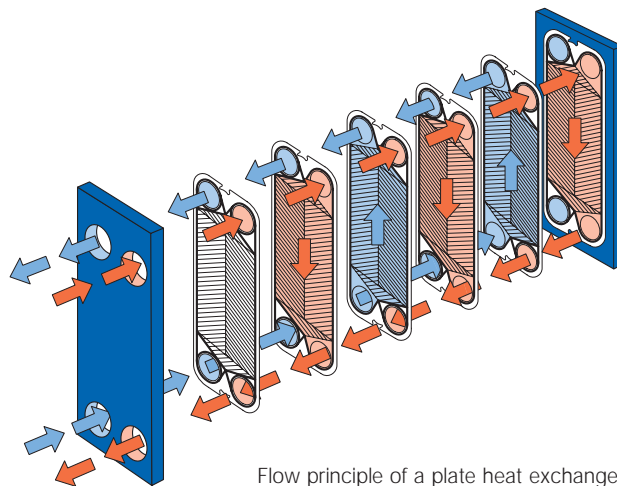
400 psig / 350°F

## CONNECTIONS

FMS PED	Size 200/250 mm	DIN 2501 PN10, ASME Cl. 150
FMS pvcALS™	Size 200/250 mm	DIN 2501 PN10, ASME Cl. 150, JIS 10K
FGS PED	Size 200 mm	DIN 2501 PN16, ASME Cl. 150
FGS pvcALS™	Size 200/250 mm	DIN 2501 PN16, ASME Cl. 150, JIS 16K
FGS ASME	Size 8"	ASME Cl. 150
FG PED	Size 200/250 mm	DIN 2501 PN16, ASME Cl. 150
FG pvcALS™	Size 200/250 mm	DIN 2501 PN16, ASME Cl. 150, JIS 16 K
FG ASME	Size 8"/10"	ASME Cl.150
FD PED	Size 200/250 mm	DIN 2501 PN25, ASME Cl. 300
FD ASME	Size 8"/10"	ASME Cl. 300
FS ASME	Size 8"/10"	ASME Cl. 400

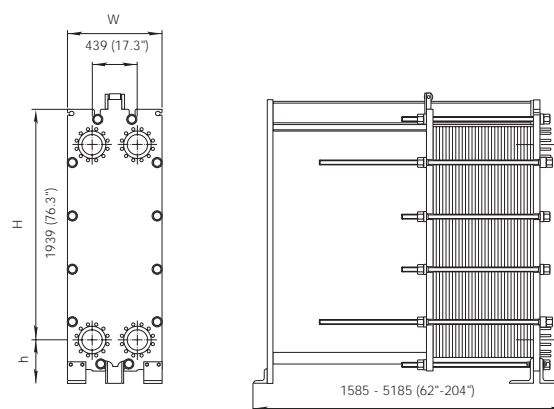
## Maximum heat transfer surface

940 m<sup>2</sup> (10.000 sq. ft)



Flow principle of a plate heat exchanger

## Dimensions



## Measurements mm (inch)

Type	H	W	h
MX25-FMS	2595 (102")	920 (36.2")	325 (12.8")
MX25-FGS	2595 (102")	920 (36.2")	325 (12.8")
MX25-FG	max 3100 (122")	920 (36.2")	435 (17.1")
MX25-FD	max 3100 (122")	940 (37")	435 (17.1")
MX25-FS	max 3100 (122")	940 (37")	435 (17.1")

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

## Particulars required for quotation

- Flow rates or heat load
- Temperature program
- Physical properties of liquids in question (if not water)
- Desired working pressure
- Maximum permitted pressure drop
- Available steam pressure

## How to contact Alfa Laval

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