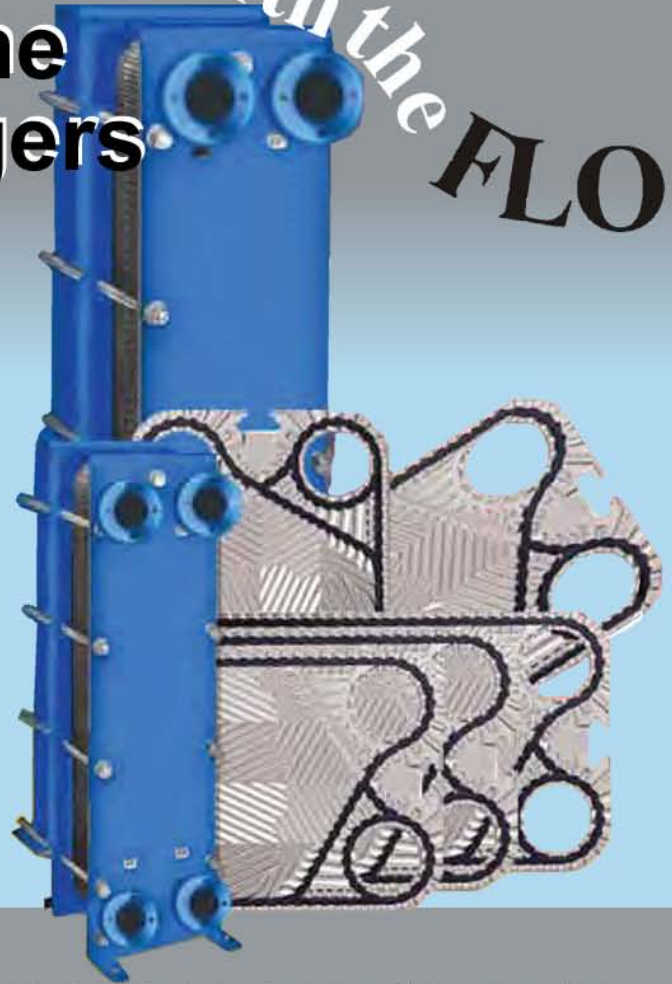


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With the
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Plate & Frame Heat Exchangers



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Manufacturer of Pumps, Tanks, Heat Exchangers & Accessories
for HVAC Market After-Sales Parts and Services

Heat Exchangers - Plate & Frame

FLO FAB INC
LAKE WORTH,
FLORIDA, USA



FEATURES

With a big range of plate heat exchangers FLO FAB has got the optimal solution for any possible task, with connection sizes from 1/2" (15mm) to 20" (500mm) covering a liquid flow of 0.22 USGPM (0.83 L/min) to 8 805 USGPM (33 330 L/min).

PLATE DESIGN

INLET: The construction of the inlet part makes a perfect distribution of the liquids across the heating surface. The inlet part is increased and supplied with grooves preventing "dead spots" which may cause the growth of bacteria in the plate heat exchanger. The inlet part with grooves secures a strong inlet part with a minimum of contact points. The inlet part is constructed with a leakage drained zone fulfilling the 3A specifications.

PLATES: The plate pattern is constructed to obtain a high thermal efficiency. The pattern is available in two designs with different angle sizes giving high respectively low turbulent flow. Combining these in a plate pack an optimal plate composition can be calculated. The angle and fishbone pattern has appeared to make the best heat transmission by a given pressure drop.

EDGE REINFORCEMENT

In order to strengthen the gasket groove The FLO FAB plate heat exchanger is supplied with deep steepedged grooves giving a perfect hold to the gasket. This means a long durability for gaskets as well as for plates.

GASKET

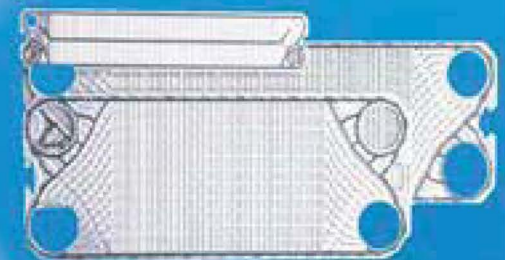
The gasket is placed in the total protected gasket groove. This construction secures the elasticity of the gasket even after long time of assembling. The new generation of FLO FAB plate heat exchangers is developed with glueless "FLO FAB Lock" gasket. The "FLO FAB Lock" gasket is fixed by strong rubber buttons which contrary to most glueless gaskets of today really fix the gasket in the groove.

FREE FLOW PLATES

Free flow plates are design for liquids containing fibers or other particles which may clog up a traditional plate heat exchanger. FLO FAB's free flow plates are designed without metal contact between the plates in the liquid area giving a high turbulence and thus a high heat transmission coefficient and especially a long power time.

FURTHER ADVANTAGES AND AREA OF APPLICATION

- 1) The plate construction makes a strong and stable plate
- 2) To be used in the paper and cellulose industry
- 3) To be used for cooling of mustard, tomato sauces and other viscous products
- 4) CIP cleaning is possible
- 5) The construction of plates and gaskets according to 3A sanitary standards



SEMI-WELDED PLATES

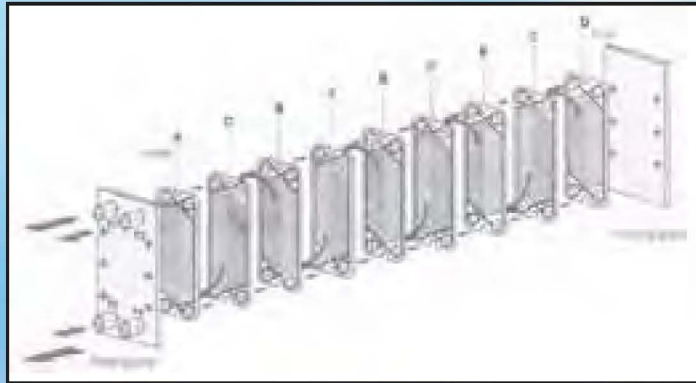
Semi-welded plates are built up in plate cassettes. A plate cassette is 2 plates welded together by means of laser welding. The advantage by this construction is on the one side a welded space and on the other side a traditional space with gaskets making assembling and cleaning of this side easier. On the welded side there are two specially produced corner hole gaskets creating the tightening between the two cassettes. Thus the gasket is reduced to a minimum on the welded side.



FLO FAB Plate and Frame Heat Exchangers

FURTHER ADVANTAGES AND APPLICATIONS

- 1) This type of heat exchangers is specially designed for the refrigerating sector and for tasks where aggressive media are used.
- 2) The welding of the plate cassettes takes place outside the gasket groove. This practically eliminates the risk of corrosion attack in the gasket groove.
- 3) When the welding takes place outside the gasket groove the disposable heat transmission area is optimum utilized.
- 4) The plate cassettes are supplied by a gasket construction increasing the tightness concurrently with the increase of the working pressure.
- 5) Like the traditional gasket the plate cassettes fully comply with the US 3A standard making this construction applicable for many sanitary tasks.

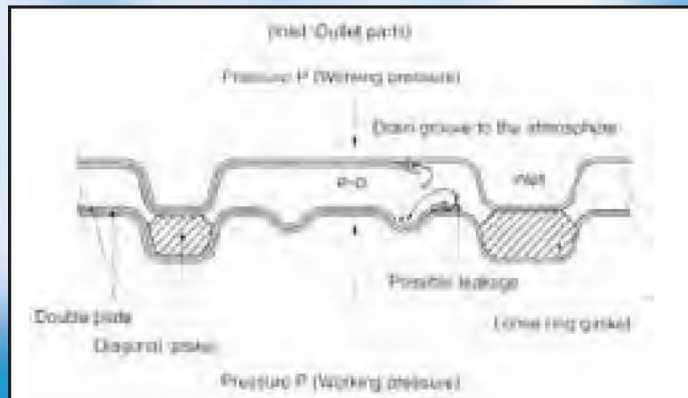


FLO FAB'S SAFE PLATES

The FLO FAB safe system consists of two thin flow plates stamped together. The two plates form a pair of plates which allows possible leaks to be seen from outside between the two plates. This prevents a mixing of the products and warns about internal leaks.

APPLICATION AREAS

- 1) Milk and cream pasteurization
- 2) Sanitary water for food processing
- 3) Water for medical injection/ultra pure water
- 4) The nuclear industry for safety reasons
- 5) District heating/tap water
- 6) Engine cooling



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