

FP Series HEAT EXCHANGER

FlatPlate's FP Series is rugged and reliable representing the latest technology in high performance brazed plate heat exchangers. Designed for a wide range of applications including industrial process heating and cooling, shell/tube replacement, hydronic heating, boiler applications, domestic water heating, snow melt, and fluid to fluid applications.

Simple Design

The FP Series Brazed Plate Heat Exchanger consists of stainless steel plates with a special high efficient heat transfer surface. The plates are then copper brazed together at high temperature, allowing the heat exchanger to be leak tight and rugged.

The FP Series differs significantly from other types of plate heat exchangers in that a wider range of applications, connection sizes, and features can be provided for single quantity units, and for high volume production. Because of this the FP Series is very cost effective for a wide range of applications.

Compact

Light weight and compact, the FP Series can be up to 50% to 80% smaller size than other types of heat exchangers. This allows for smaller equipment packages, simplified installation and lower shipping costs.

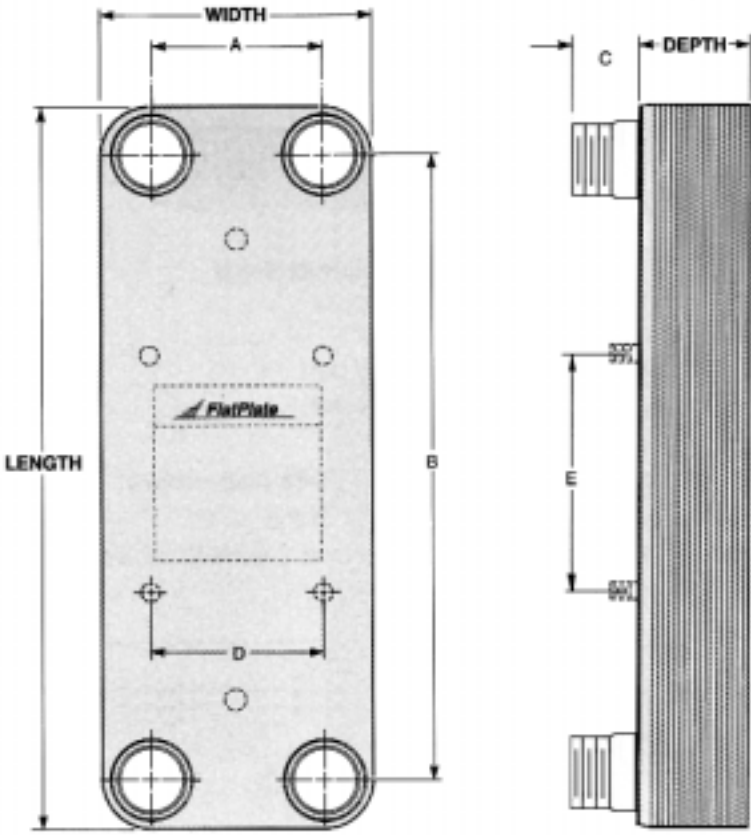
High Efficiency

Like all FlatPlate heat exchangers, the FP Series uses a highly efficient heat transfer surface with excellent turbulence, moderate to low pressure drops and lower fouling rates. Heat Transfer coefficients up to 1200 BTU/H/°F-sq ft for fluid to fluid applications are typical.

Proven Performance

FlatPlate heat exchanger designs have been tested for performance under a wide range of operating conditions. From this test data, all applications are computer modeled and selected for optimum performance. And all units are Helium leak tested for assured quality.





Connections (a)			
# of Plates	Standard	C	
	Threaded (MPT)		
5X12	4 thru 16	3/4	1.125
	20 thru 30, 36 thru 40, 50	1	1.250
	30, 40		
	50 thru 80	1-1/4	1.375
10X20	20 thru 40	1-1/2	1.500
	50 thru 80	2	1.750
	90 thru 200	2-1/2	2.000

- (a) Connections the same on both sides
- (b) Heat exchanger may be installed in vertical or horizontal position
- (c) Heat exchanger must be piped in counterflow arrangement
- (d) A water strainer **MUST** be installed in the water inlet circuit (16-20 mesh minimum, 20-40 mesh recommended)
- (e) Water quality should be maintained at a PH of 7.4 (6.5 to 8.0)
- (f) Use MP Series version for sea water, chlorinated water and pool water applications
- (g) Use FPN Series version for de-ionized water applications

- Stud Bolts:**
- 3/8-24 x 1"L on all 5 x 12 Models
 - 1/2-20 x 1-1/2"L standard on all 10 x 20 Models

Dimensions (in.)								Approx. Wt. (lbs.)
Model	L	W	Depth	A	B	D	E	
FP5x12	12.2	4.9	.094 x #plates + .36	2.7	9.9	2.5	3.5	.328 x #plates + 3.1
FP10x20	20.3	9.8	.094 x #plates + .36	6.5	17.0	4.0	5.5	1.1 x #plates + 10.7

Specifications

Plate Material: 316L Stainless Steel
 Braze Material: Copper
 Maximum Working Temperature: 350°F
 Maximum Working Pressure: 450 psi

- Approvals:
 - U.L. (Underwriters Laboratory), US and Canada
 - ASME Code Stamped (optional)
 - Canadian CRN
 - European TÜV
- Optional Floor Mount Bracket
- Standard and Custom units available including FPN **Nickel brazed** versions and MP Series Marine versions.

Application Support
 FlatPlate provides support for
 all applications, large or small.....Please call or fax us.

Ph: 717-767-9060
Fax: 717-767-9160



Manufactured 100% in the U.S.A.