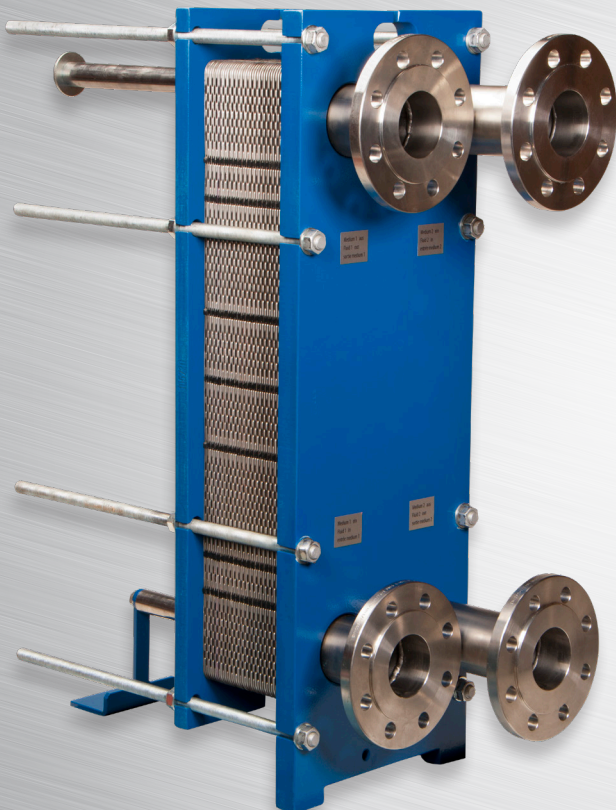


# PF SERIES

## PLATE & FRAME HEAT EXCHANGERS

### NEW SERIES!

Plate & Frame Heat Exchangers  
for Fluid Power Applications



We **COOL**  
what you  
**POWER**

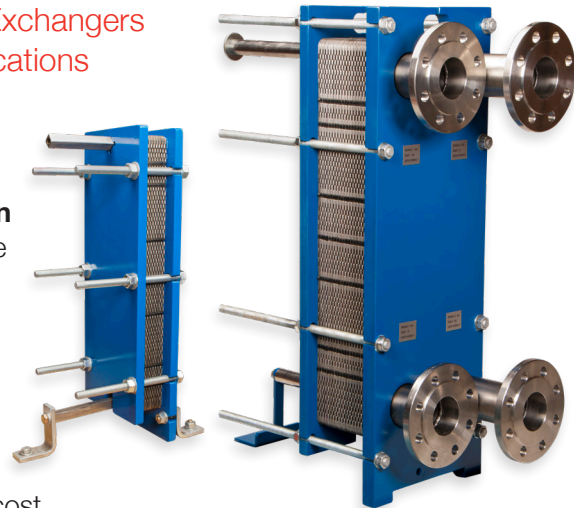


# PF SERIES

## NEW SERIES! Plate & Frame Heat Exchangers for Fluid Power Applications

**PF Series heat exchangers are a compact, serviceable design and flexible cost saving alternative.** The unique designs produce high heat transfer coefficients for a given application. Large heat exchanging surfaces in a very compact, space-saving frame. Double sealing design prevents the possibility of mixing the two process fluids. Readily expanded for greater capacities. Low temperature approaches/differences. Capable of handling large volumetric flows with low pressure drops.

Compact design: less material + less surface area required = lower cost



### Features

- Gasketed plate style heat exchanger
- Oil to water applications
- High performance
- Can be disassembled for internal cleaning
- Plates can be added /removed to accommodate change in performance
- Medium to very high flows
- All plates are stainless steel
- All hardware is zinc coated
- PED / ASME / CRN codings available
- Special plate material options: Titanium/ Hastelloy /SMO-254 / Nickel / 904L
- Special gasket material options: High Temp NBR (302°F, 150°C) / EPDM / FPM / PTFE (Teflon®)
- Plate profile options: a deep gap, lower pressure drop plates for high viscosity fluids (Type S). Select models also offer a shallower gap, higher pressure drop and performance plates (Type X).

### Materials

#### Internal

- Plates Stainless Steel
- Gaskets Nbr-Clip
- Tie Rods Zinc Plated Steel

#### External Frame

- Connections Carbon Steel, Stainless Steel
- Frame Plate (Front) Carbon Steel
- Pressure Plate (Rear) Carbon Steel
- Carry Bar (Top) Zinc Coated Steel, Stainless Steel
- Guide Bar (Bottom) Zinc Coated Steel, Stainless Steel
- Column (if applicable) Carbon Steel, Aluminum
- Mounting Feet Carbon Steel
- Fasteners Zinc Plated Steel

Other materials are available. Consult factory for details.

### Fluid Compatibility

- Petroleum/mineral oils
- Oil/water emulsion
- Water/ethylene glycol

### Ratings Hot/Cold Side

- Design Pressure 150 PSI (10.5 BAR)
- Test Pressure 195 PSI (13.4 BAR)
- Design Temperature 230°F (110°C)
- Minimum Working Temperature 32°F (0°C)



### Maximum Flow Rates

U.S. Heat Exchangers			Metric Heat Exchangers		
Port Size	Port Type	Max Flow GPM (LPM)	Port Size	Port Type	Max Flow LPM
1	NPT	61 (231)	DN-25	DIN2999	224
2	NPT	245 (927)	DN-50	DIN2999	895
2.5	150# studded	382 (1446)	DN-50	DIN2501-PN10	895
3	150# studded	551 (2086)	DN-80	DIN2501-PN10	2292
4	150# studded	979 (3706)	DN-100	DIN2501-PN10	3582
6	150# studded	2202 (8336)	DN-125	DIN2501-PN10	5597
			DN-150	DIN2501-PN10	8059

GPM listed is for maximum critical port velocity of 25 ft/s

LPM listed is for maximum critical port velocity of 7.6m/s

**PF Series** heat exchangers must have a performance calculation performed for each application due to the nature of the product and available options.

**Please contact TTP Application Engineering to start this easy process.**

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+1.262.554.8330**

**Applications beyond Hydraulics Oil Cooling— chillers, fuel heaters, biogas, natural gas, de-ionized water, refrigerant air cooling, condensor.**