PF SERIES
PLATE & FRAME HEAT EXCHANGERS

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

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 (Reel) 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

<table>
<thead>
<tr>
<th>U.S. Heat Exchangers</th>
<th>Metric Heat Exchangers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Port Size</strong></td>
<td><strong>Port Type</strong></td>
</tr>
<tr>
<td>1</td>
<td>NPT</td>
</tr>
<tr>
<td>2</td>
<td>NPT</td>
</tr>
<tr>
<td>2.5</td>
<td>150# studded</td>
</tr>
<tr>
<td>3</td>
<td>150# studded</td>
</tr>
<tr>
<td>4</td>
<td>150# studded</td>
</tr>
<tr>
<td>6</td>
<td>150# studded</td>
</tr>
<tr>
<td>6</td>
<td>150# studded</td>
</tr>
</tbody>
</table>

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

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

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

We COOL what you POWER

thermaltransfer.com

Please contact TTP Application Engineering to start this easy process.

ttp-sales@apiheattransfer.com
+1.262.554.8330