MULTITUBE PLATE HEAT EXCHANGERS WITH MULTIPASS

HRS MP SERIES

The HRS MP Series is a complete stainless steel multitube heat exchanger, its design is ideal for sanitary and industrial applications. Using multiple passes on the tube side offers greater flexibility for optimizing fluid velocity, pressure drop and heat transfer.

The unique design creates longer thermal length within the same module, avoiding designs with multiple modules and interconnecting bends. Using HRS corrugation technology, both heat transfer and efficiency are increased over standard smooth tube heat exchangers. In addition, potential fouling is minimized.

APPLICATIONS
Low - Medium Viscosity Fluids
Food Industry Applications

STANDARD MATERIALS OF CONSTRUCTION
Service Side: AISI 304/316L Stainless Steel
Product Side: AISI 316L Stainless Steel
Other material options available

STANDARD CONNECTIONS
Service Side: Clamp
Product Side: Clamp
All flange & clamp types available

SURFACE FINISH
External: Polished
Internal: <0.8μ
Other surface finishes available

STANDARD DESIGN CONDITIONS
Service Side: 147 PSI/365°C
Product Side: 147 PSI/365°C

FEATURES
• Multiple passes on tube side optimize fluid velocity, pressure drop and heat transfer
• Corrugated tubes for increased heat transfer
• Bellows are fitted to absorb differential expansion between shell and inner tubes
• Multiple units can be interconnected and have the option of frame mounting, insulation and cladding in stainless steel
• Passes can be configured to include 2/3/6 passes

RANGE

<table>
<thead>
<tr>
<th>MODELS</th>
<th>LENGTHS (ft)</th>
<th>SURFACE AREA (ft²)</th>
<th>SERVICE SIDE CONNECTION</th>
<th>PRODUCT SIDE CONNECTION</th>
<th>SERVICE SIDE VOLUME (gal)</th>
<th>PRODUCT SIDE VOLUME (gal)</th>
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</thead>
<tbody>
<tr>
<td>MP 6/X 76/18</td>
<td>2 - 20</td>
<td>21.5</td>
<td>1.5”</td>
<td>1.5”</td>
<td>3.6</td>
<td>1.6</td>
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<tr>
<td>MP 12/X 104/18</td>
<td>2 - 20</td>
<td>44</td>
<td>2.5”</td>
<td>1.5”</td>
<td>6.6</td>
<td>3.2</td>
</tr>
<tr>
<td>MP 18/X 129/18</td>
<td>2 - 20</td>
<td>65.5</td>
<td>3”</td>
<td>2”</td>
<td>10.5</td>
<td>4.8</td>
</tr>
<tr>
<td>MP 36/X 168/18</td>
<td>2 - 20</td>
<td>131.5</td>
<td>3”</td>
<td>3”</td>
<td>15.6</td>
<td>9.5</td>
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</tbody>
</table>

Possible tube lengths in meters: 2/3/5/7/10/20ft. The surface area and volumes shown are for 20ft length models.

DESIGN CODE AND COMPLIANCE
PD 5500, PED 2014/68/EU, ASME | FDA, TR CU 032, DOSH Compliant

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