Do you need a pressure source close to your NMR spectrometer? One that can deliver pressure and maintain it in a smooth manner to minimize spectral artifacts? The Xtreme Syringe Pumps may be the solution for you. When coupled with Daedalus' high pressure NMR cells, high-quality triple resonance spectroscopy can be performed by researchers without previous experience with high pressure applications. Operation is simple: enter the set point and hit run. The pump does the rest of the work and maintains the pressure for as long as needed. If a series of pressure points is needed, the Xtreme can be programmed for multi-point pressure titrations and with optional data logging of the steps.

The **Xtreme-60** is the high pressure, low volume pump for use up to 60,000 psi. It is designed to handle incompressible fluids such as water without stalling the drive train.

For applications that may require gas we have the **Xtreme-10**. With a higher displacement to system volume ratio, it provides for nearly a twelve-fold compression of the transducing fluid making it ideal for applications such as reverse micelle sample preparations or other gas related research.

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Xtreme-60</th>
<th>Xtreme-10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pressure range</strong></td>
<td>0-60,000 psi (4138 bar) max</td>
<td>0-10,000 psi (690 bar) max</td>
</tr>
<tr>
<td><strong>Wetted parts</strong></td>
<td>316 and 17-4PH stainless steel, Parker Poly Pak® is standard</td>
<td></td>
</tr>
<tr>
<td><strong>Operating medium</strong></td>
<td>Water, Oils, Alcohols, Hydrocarbons, Inert Gases</td>
<td></td>
</tr>
<tr>
<td><strong>Displacement volume</strong></td>
<td>6.7 mL displacement (12.5 mL total system volume)</td>
<td>34.7 mL displacement (37.95 ml total system volume)</td>
</tr>
<tr>
<td><strong>Pressure connection</strong></td>
<td>Inlet / Outlet ports are HiP HF4 (9/16”-18 UNF) for use with 1/4” tubing</td>
<td>Inlet / Outlet ports are HiP AF1 (1/4”-28 UNF) for use with 1/16” tubing</td>
</tr>
</tbody>
</table>

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**Power requirements**

- 100-120 VAC / 200-240 VAC, 50/60 Hz
- 7.9 A / 3.95 A

**Temperature range**

- 10°C to 70°C

**Weight**

- Main pump section: 109 lbs (49.5 kg)
- Controller: 15 lbs (6.8 kg)

**Dimensions**

- Main pump section: 12” W x 29” D x 11” H
- Controller: 11” W x 17” D x 6” H

**Safety standards met**

- UL 61010A-1, CSA C22.2 No. 61010-1, EN 61326-1:2006; Clause 7.2, EN 61326-1:2006; Table 2, EN 61010-1:2001

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