High-Precision High-Pressure Piston Pumps

The right pumps for your HPLC application

- Self-flush feature washes piston with every stroke
- Digital stepper motor ensures accuracy at low flow rates
- Remotely control pump with a PC via RS-232 and micro USB
- Interactive keypad controls make programming at the pump easy

Get high performance and high precision at an affordable price! This series of Cole-Parmer pumps precisely meter and dispense chemicals, making them perfect for both your analytical and small-scale applications. Requiring minimal bench space, these pumps will easily integrate into any laboratory or industrial environment.
Applications

– General lab fluid transfer
– Precise chemical metering
– Dispensing
– Preparative and simulated moving bed chromatography
– UHP chromatography
– Analytical, flash, and small-scale preparations

Choose from four pump types

**Single-Head Pumps**
precisely meter and dispense chemicals, perfect for small-scale laboratory fluid transfers and HPLC applications. Small footprint saves bench and fume hood space.

**High-Flow Dual-Head Pumps**
are ideally suited to preparative and simulated moving bed chromatography applications and other high throughput processes.

**High-Performance Isocratic Pumps**
are best suited to semi-prep and other small-scale HPLC separations, and general metering and dispensing applications.

**Low-Pulsation Dual-Head Pump**
provides virtually pulse-free operation with a low dead-volume pulse dampener, automatic pressure compensation, and advanced linear cam technology.

### Ordering Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Flow Range (mL/min)</th>
<th>Pressure Range (psi)</th>
<th>Pulse dampener</th>
<th>Pump head material</th>
<th>Wetted materials</th>
<th>Output</th>
<th>Max Temperature (fluid)</th>
<th>Duty cycle</th>
<th>Dimensions (W x H x D)</th>
<th>Power (VAC, Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-head pumps</td>
<td>0 to 10</td>
<td>0 to 2000</td>
<td>No</td>
<td>PEEK</td>
<td>Synthetic ruby, sapphire, UHMWPE, PTFE</td>
<td>RS-232, micro USB, run/stop</td>
<td>212°F (100°C)</td>
<td>Continuous</td>
<td>3&quot; x 5 1/2&quot; x 10 1/2&quot; (7.6 x 14 x 26.7 cm)</td>
<td>100 to 240, 50/60</td>
</tr>
<tr>
<td>High-flow dual-head pumps</td>
<td>0 to 100</td>
<td>0 to 6000</td>
<td>Yes</td>
<td>316 SS</td>
<td>Synthetic ruby, sapphire, UHMWPE, PTFE</td>
<td>RS-232, micro USB, run/stop</td>
<td>212°F (100°C)</td>
<td>Continuous</td>
<td>7&quot; x 6 1/4&quot; x 16&quot; (17.8 x 16.5 x 40.6 cm)</td>
<td>100 to 240, 50/60</td>
</tr>
<tr>
<td>High-performance isocratic pumps</td>
<td>0 to 300</td>
<td>0 to 4000</td>
<td>No</td>
<td>316 SS</td>
<td>Synthetic ruby, sapphire, UHMWPE, PTFE</td>
<td>RS-232, micro USB, run/stop</td>
<td>212°F (100°C)</td>
<td>Continuous</td>
<td>10&quot; x 8 1/4&quot; x 17&quot; (25.4 x 16 x 43.2 cm)</td>
<td>100 to 240, 50/60</td>
</tr>
<tr>
<td>Low-pulsation dual-head pump</td>
<td>0 to 100</td>
<td>0 to 1000</td>
<td>Yes</td>
<td>316 SS</td>
<td>Synthetic ruby, sapphire, UHMWPE, PTFE</td>
<td>RS-232, micro USB, run/stop</td>
<td>212°F (100°C)</td>
<td>Continuous</td>
<td>7&quot; x 6 1/4&quot; x 16&quot; (17.8 x 16.5 x 40.6 cm)</td>
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What’s included: Detachable power supply. Dual-head and isocratic pump models also include a removable drip tray.

1-800-637-3739
Masterflex.com