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Hollow Cathode Lamps

Agilent hollow cathode lamps match the performance of genuine PerkinElmer Lumina lamps

The key requirement for any hollow cathode lamp is to generate a narrow emission line that has sufficient purity, good intensity and low noise to ensure a good calibration can be obtained. Lamps from different manufacturers can have performance differences, which can affect accuracy and reliability of your results.

Agilent lamps for PerkinElmer AA instruments are manufactured in an ISO 9001 environment and use proven processing steps to ensure optimal purity and performance, and long lifetime. Agilent lamps are characterized by good sensitivity and spectral response, combined with stable light output, low noise, and long lifetime.

Warm-up

For best performance and stability, it is always recommended that the lamp is allowed to warm-up and stabilize prior to analysis. Lamps that never stabilize cause drift, and introduce significant measurement errors. Short term stability for Agilent and PerkinElmer lamps for Cu are illustrated – there is no significant difference. After a suitable warm-up time, the emission output is quite stable.

Warm up profiles for the 50 mm coded lamp for copper, measured using the AAnalyst 800. A warm-up period of ~15 minutes is required to achieve stable output with both the genuine PerkinElmer and the Agilent lamps.
Emission intensity

Emission intensity of the hollow cathode lamp is influenced by the selected element/wavelength, cathode construction and operating current. This also impacts signal-to-noise performance. The greater the intensity — the lower the noise.

The “energy” value at the lamp status display of the PerkinElmer AA instrument confirms the relative intensity for the current lamp. As shown in the table, the “energy” values for Agilent and a genuine PerkinElmer lamp are similar, confirming that both lamps have similar intensity.

Sensitivity and linearity

The recommended operating parameters for each lamp are carefully optimized to ensure the best balance between signal-to-noise performance and lamp life.

Sensitivity and calibration linearity of the Agilent and PerkinElmer lamps was assessed by overlaying the calibration curves obtained for each lamp, operated at the recommended operating current.

<table>
<thead>
<tr>
<th>Energy value for Cu at 324.8 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent lamp 1</td>
</tr>
<tr>
<td>Agilent lamp 2</td>
</tr>
<tr>
<td>Agilent lamp 3</td>
</tr>
<tr>
<td>PerkinElmer Lumina lamp</td>
</tr>
</tbody>
</table>

Energy values for the 50 mm coded lamp for copper, measured using the AAnalyst 800. Both the genuine PerkinElmer and the Agilent lamps have similar intensity.

Comparison of calibration curves for copper (Cu) at 324.8 nm, measured on the PerkinElmer AAnalyst 800, comparing the genuine PerkinElmer and the Agilent lamps. Performance of both lamps is similar.

With their virtually identical performance, Agilent lamps are excellent alternatives to genuine PerkinElmer lamps.
ATOMIC ABSORPTION

Agilent 50 mm coded hollow cathode lamps provide economical operation, superb performance and are compatible with all PerkinElmer AA systems. Agilent lamps are manufactured in an ISO 9001 certified environment and use proven processing steps to ensure optimum purity, stable operation, and long lifetime.

Single Element Hollow Cathode Lamps

<table>
<thead>
<tr>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Al 50 mm coded</td>
<td>N3050103</td>
<td>8003-0712</td>
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<tr>
<td>Antimony Sb 50 mm coded</td>
<td>N3050170</td>
<td>8003-0713</td>
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<tr>
<td>Arsenic As 50 mm coded</td>
<td>N3050105</td>
<td>8003-0714</td>
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<tr>
<td>Barium Ba 50 mm coded</td>
<td>N3050109</td>
<td>8003-0715</td>
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<tr>
<td>Beryllium Be 50 mm coded</td>
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<td>Bismuth Bi 50 mm coded</td>
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<td>Boron B 50 mm coded</td>
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<td>Cadmium Cd 50 mm coded</td>
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<td>Calcium Ca 50 mm coded</td>
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<td>Chromium Cr 50 mm coded</td>
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<tr>
<td>Cobalt Co 50 mm coded</td>
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<tr>
<td>Copper Cu 50 mm coded</td>
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<td>Europium Eu 50 mm coded</td>
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<td>Gadolinium Gd 50 mm coded</td>
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<td>Gallium Ga 50 mm coded</td>
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<td>Germanium Ge 50 mm coded</td>
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<td>Gold Au 50 mm coded</td>
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<tr>
<td>Indium In 50 mm coded</td>
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<td>Iridium Ir 50 mm coded</td>
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<td>Iron Fe 50 mm coded</td>
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<td>Lanthanum La 50 mm coded</td>
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<td>Lead Pb 50 mm coded</td>
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<tr>
<td>Lithium Li 50 mm coded</td>
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TIPS & TOOLS

Did you know you can safely and conveniently return used hollow cathode lamps for recycling using pre-paid shipping pails? This recycling service is currently available in US and Canada. Find out more about the Agilent AA lamp recycling service at www.agilent.com/chem/aarecycle
### Single Element Hollow Cathode Lamps

<table>
<thead>
<tr>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
</tr>
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<tbody>
<tr>
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<td>Molybdenum Mo 50 mm coded</td>
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<tr>
<td>Neodymium Nd 50 mm coded</td>
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<tr>
<td>Nickel Ni 50 mm coded</td>
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<tr>
<td>Niobium Nb 50 mm coded</td>
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<td>Platinum Pt 50 mm coded</td>
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<td>Potassium K 50 mm coded</td>
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<td>Samarium Sm 50 mm coded</td>
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<td>Scandium Sc 50 mm coded</td>
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<td>Selenium Se 50 mm coded</td>
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<td>Sodium Na 50 mm coded</td>
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<td>Tin Sn 50 mm coded</td>
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<td>Zirconium Zr 50 mm coded</td>
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## Nebulizers and Components

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PinAAcle</td>
<td>Capillary assembly for stainless steel nebulizer</td>
<td>N3160113</td>
<td>8003-0827</td>
</tr>
<tr>
<td>PinAAcle</td>
<td>Nebulizer assembly, stainless steel, for aqueous solutions</td>
<td>N3160143</td>
<td>8003-0828</td>
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<tr>
<td>PinAAcle</td>
<td>O-ring, for high-sensitivity nebulizer with Pt/Ir capillary</td>
<td>B0507708</td>
<td>8003-0862</td>
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<tr>
<td>PinAAcle</td>
<td>Capillary assembly, for metal body nebulizers</td>
<td>03030354</td>
<td>8003-0864</td>
</tr>
<tr>
<td>PinAAcle</td>
<td>Nebulizer, high-sensitivity, with Pt/Ir capillary</td>
<td>N3160144</td>
<td>8003-0960</td>
</tr>
<tr>
<td>PinAAcle and AAnalyst 100/200/300/400/700/800</td>
<td>Impact bead, for high-sensitivity nebulizer with Pt/Ir or tantalum capillary and earlier AA models</td>
<td>B0505086</td>
<td>8003-0860</td>
</tr>
<tr>
<td>PinAAcle and AAnalyst 200/400</td>
<td>O-ring, for high-sensitivity nebulizer with Pt/Ir capillary</td>
<td>09902015</td>
<td>8003-0861</td>
</tr>
<tr>
<td>PinAAcle and AAnalyst 200/400</td>
<td>Spring, for high-sensitivity nebulizer with Pt/Ir capillary</td>
<td>09920483</td>
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</tbody>
</table>

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Exploded view of Nebulizer assembly, 8003-0828

1. Nebulizer adjusting nut
2. Nebulizer capillary, 8003-0864
3. Nebulizer spring, 8003-0823
4. Nebulizer body O-rings, 8003-0861
5. Nebulizer venturi
   - Nebulizer venturi O-ring (black), 8003-0825
6. Nebulizer endcap, 8003-0845
   - O-ring that seals the nebulizer to the end cap (red), 8003-0824

Nebulizer assembly, stainless steel, 8003-0828

Impact bead, for high-sensitivity nebulizer, 8003-0860
**Nebulizers and Components**

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
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<th>Agilent Part No.</th>
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<tbody>
<tr>
<td>All PE AA systems</td>
<td>Nebulizer cleaning wire, alloy, 5/pk</td>
<td>03030135</td>
<td>9910024700</td>
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<tr>
<td>All PE AA systems</td>
<td>Nebulizer capillary tubing, polyethylene, 10 ft (3 m), 0.023 inch (0.6 mm) id x 0.038 inch (0.97 mm) od, used with Cross-Flow and high solids nebulizer</td>
<td>09908265</td>
<td>8003-0406</td>
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<tr>
<td>AAnalyst 200/400</td>
<td>Nebulizer, high-sensitivity, with Pt/Ir capillary</td>
<td>N3150188</td>
<td>8003-0837</td>
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<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Capillary assembly, for corrosion-resistant nebulizer</td>
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<td>8003-0818</td>
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<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Nebulizer assembly, corrosion-resistant</td>
<td>03030404</td>
<td>8003-0819</td>
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<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Nebulizer assembly, stainless steel, for aqueous solutions</td>
<td>03030352</td>
<td>8003-0822</td>
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<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>O-ring kit, for metal body nebulizer assemblies</td>
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<td>AAnalyst 100/300/700/800</td>
<td>Spring, for GemTip nebulizer</td>
<td>09902473</td>
<td>8003-0830</td>
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<tr>
<td>AAnalyst 100/300/700/800</td>
<td>GemTip nebulizer assembly, high-sensitivity</td>
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<td>8003-0831</td>
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<td>AAnalyst 100/300/700/800</td>
<td>GemTip nebulizer assembly</td>
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<tr>
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<td>Spring, for high-sensitivity nebulizer with Pt/Ir capillary</td>
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<td>O-ring, for high-sensitivity nebulizer with Pt/Ir capillary</td>
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<td>AAnalyst 100/300/700/800</td>
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<td>AAnalyst 100/300/700/800</td>
<td>Nebulizer, high-sensitivity, with Pt/Ir capillary</td>
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<td>AAnalyst 100/300/700/800</td>
<td>O-ring, 9.25 mm id, 1.78 mm cross section (2-012), for high-sensitivity nebulizer with Pt/Ir capillary</td>
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<td>8003-0863</td>
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<td>AAnalyst 200/400 and PinAAcle 900</td>
<td>Nebulizer tubing assembly, for high-sensitivity nebulizer with Pt/Ir capillary</td>
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<td>8003-0409</td>
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<td>AAnalyst 100/200/300/400/700/800 and PinAAcle 900</td>
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<td>8003-0864</td>
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<td>700/800 and PinAAcle 900</td>
<td>Capillary assembly, for high-sensitivity nebulizer with Pt/Ir capillary</td>
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<td>8003-0864</td>
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<td>Capillary assembly, for high-sensitivity nebulizer with Pt/Ir capillary</td>
<td>O-ring, 0.208 inch id, 0.070 inch cross section, for stainless steel nebulizer assembly</td>
<td>09902239</td>
<td>8003-0824</td>
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<tr>
<td>AAnalyst 100/200/300/400/700/800 and PinAAcle</td>
<td>O-ring, 0.176 inch id x 0.070 inch cross section, for stainless steel nebulizer assembly</td>
<td>09902205</td>
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Nebulizer cleaning wire, alloy, 8003-0396

Nebulizer capillary tubing, polyethylene, 8003-0406
### Burner System Components

<table>
<thead>
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<th>Instrument</th>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
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<tbody>
<tr>
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<tr>
<td>PinAAcle 900</td>
<td>End cap latch assembly</td>
<td>N3160107</td>
<td>8003-0838</td>
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<tr>
<td>PinAAcle 900</td>
<td>Burner drain assembly for organics</td>
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<td>8003-0845</td>
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<tr>
<td>PinAAcle</td>
<td>O-ring, end cap, 0.312 x 0.070 inch (4 required)</td>
<td>09200253</td>
<td>8003-0842</td>
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<tr>
<td>PinAAcle</td>
<td>End cap assembly, for metal body nebulizers</td>
<td>N3160102</td>
<td>8003-0845</td>
</tr>
<tr>
<td>PinAAcle</td>
<td>End cap assembly, for plastic body nebulizers</td>
<td>N3160111</td>
<td>8003-0847</td>
</tr>
<tr>
<td>PinAAcle</td>
<td>Burner drain assembly, with tubing and drain interlock, drain bottle not included</td>
<td>N0400058</td>
<td>8003-0857</td>
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<tr>
<td><strong>Parts for PinAAcle &amp; AAnalyst Systems</strong></td>
<td></td>
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<tr>
<td>PinAAcle and AAnalyst 100/200/300/400/700/800</td>
<td>Flow spoiler</td>
<td>00572561</td>
<td>8003-0841</td>
</tr>
<tr>
<td>PinAAcle and AAnalyst 100/200/300/400/700/800</td>
<td>O-ring, end cap, Viton, standard</td>
<td>09902147</td>
<td>8003-0843</td>
</tr>
<tr>
<td>PinAAcle and AAnalyst 100/200/300/400/700/800</td>
<td>O-ring, 1/8 in x 3 mm id, for seal plug in end cap assembly for metal body nebulizers</td>
<td>09902236</td>
<td>8003-0853</td>
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<td><strong>Parts for AAnalyst Systems</strong></td>
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<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Clamping ring, for burner system</td>
<td>N0401171</td>
<td>8003-0840</td>
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<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>O-ring, end cap, Kalrez, organics/aqueous</td>
<td>09921044</td>
<td>8003-0844</td>
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<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>End cap assembly, for metal body nebulizers</td>
<td>00570984</td>
<td>8003-0820</td>
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<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>End cap assembly, for plastic body nebulizers</td>
<td>N0370392</td>
<td>8003-0848</td>
</tr>
<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Drain tubing, Tygon, with FEP lining</td>
<td>02507987</td>
<td>8003-0850</td>
</tr>
<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Seal plug, Pyrex, for impact bead used with end cap assembly for metal body nebulizers</td>
<td>00572624</td>
<td>8003-0851</td>
</tr>
</tbody>
</table>

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# Burner System Components

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>O-ring, 1/4 inch x 6 mm id, for end cap assembly for metal body nebulizers</td>
<td>09902240</td>
<td>8003-0852</td>
</tr>
<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Burner drain assembly for organics</td>
<td>N3150230</td>
<td>8003-0855</td>
</tr>
<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Burner drain assembly, with tubing and drain interlock, drain bottle not included</td>
<td>N2011074</td>
<td>8003-0856</td>
</tr>
<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Burner mixing chamber assembly</td>
<td>00570948</td>
<td>8003-0945</td>
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</table>

# Burner Supplies

<table>
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<tr>
<th>Instrument</th>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
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</thead>
<tbody>
<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Burner gasket kit for end cap assembly for metal body nebulizers</td>
<td>00470988</td>
<td>8003-0395</td>
</tr>
<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>O-ring kit, Viton for burner head</td>
<td>09902219</td>
<td>8003-0397</td>
</tr>
<tr>
<td>AAnalyst 100/200/300/400/700/800</td>
<td>Gasket (O-ring), Corkprene, for burner end cap organics</td>
<td>00472014</td>
<td>8003-0407</td>
</tr>
<tr>
<td>PinAAcle and AAnalyst</td>
<td>O-ring, burner head, 24.99 x 3.53 mm</td>
<td>09200079</td>
<td>8003-0849</td>
</tr>
<tr>
<td>PinAAcle and AAnalyst 100/200/300/400/700/800</td>
<td>Burner head cleaning tool</td>
<td>03031573</td>
<td>8003-0858</td>
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# Burners

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<tr>
<th>Instrument</th>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PinAAcle and AAnalyst 100/200/300/400/700/800</td>
<td>Burner head, single-slot, 5 cm, for nitrous oxide-acetylene or air-acetylene operation</td>
<td>N0400100</td>
<td>8003-0417</td>
</tr>
<tr>
<td>PinAAcle and AAnalyst 100/200/300/400/700/800</td>
<td>Burner head, single-slot, 5 cm, for air-acetylene operation</td>
<td>N0400101</td>
<td>8003-0418</td>
</tr>
<tr>
<td>PinAAcle and AAnalyst 100/200/300/400/700/800</td>
<td>Burner head, single-slot, 10 cm, for air-acetylene operation</td>
<td>N0400102</td>
<td>8003-0419</td>
</tr>
</tbody>
</table>

**TIPS & TOOLS**

The best way to clean the burner is to polish the inside of the burner slot using burner cleaning strips and a liquid metal polish. Then clean the outside of the burner slot with a clean rag. Then sonicate for a few minutes in a detergent solution, rinse, and dry. Ensure the burner is dry before refitting and igniting the flame.

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AGILENT SUPPLIES FOR PerkinElmer ATOMIC ABSORPTION

Graphite Components

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graphite Tubes and Platforms</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THGA Graphite Furnace Systems</td>
<td>Graphite tube, standard, THGA, with end cap, 5/pk</td>
<td>B3000653</td>
<td>8003-0958</td>
</tr>
<tr>
<td>THGA Graphite Furnace Systems</td>
<td>Recommended for improved characteristic mass with volatile and medium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THGA Graphite Furnace Systems</td>
<td>refractory elements (not recommended for refractory elements such as V or Ba).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Graphite tube, pyrocoated, HGA, with integrated platform, 10/pk</td>
<td>B3001256</td>
<td>8003-0421</td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>with integrated platform, 20/pk</td>
<td>B0504033</td>
<td>8003-0959</td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Graphite tube, pyrocoated, with integrated platform, 5/pk</td>
<td>B3000641</td>
<td>8003-0410</td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Graphite tube, pyrocoated, HGA, with integrated platform, 20/pk</td>
<td>B3001262</td>
<td>8003-0416</td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Graphite tube, pyrocoated, HGA, with integrated platform, 5/pk</td>
<td>B3000641</td>
<td>8003-0410</td>
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<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Graphite tube, pyrocoated, HGA, with integrated platform, 20/pk</td>
<td>B3001262</td>
<td>8003-0416</td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Graphite tube, pyrocoated, HGA, with advanced platform, 5/pk</td>
<td>N9307834</td>
<td>8003-0954</td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Graphite tube, pyrocoated, HGA, 10/pk</td>
<td>B0121091</td>
<td>8003-0960</td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Graphite tube, pyrocoated, HGA, 10/pk</td>
<td>B0135653</td>
<td>8003-0962</td>
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<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Graphite tube, pyrocoated, HGA, 10/pk</td>
<td>B0121091</td>
<td>8003-0960</td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Contact cylinder, graphite, standard, THGA, 1 set</td>
<td>B0504035</td>
<td>8003-0401</td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>Modified THGA contact cylinder set</td>
<td>B3002103</td>
<td>8003-0949</td>
</tr>
<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>With modified injection port area to help minimize condensation and improve</td>
<td></td>
<td></td>
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<tr>
<td>HGA-900/850/800/700/600/300</td>
<td>analytical performance with difficult matrices.</td>
<td></td>
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<tr>
<td>Zeeman HGA-900/850/800/700/600/300</td>
<td>Contact cylinder, Zeeman, HGA, 1 set</td>
<td>B0116823</td>
<td>8003-0961</td>
</tr>
<tr>
<td>Zeeman HGA-900/850/800/700/600/300</td>
<td>Contact cylinder, Zeeman, HGA, 1 set</td>
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</tbody>
</table>

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AGILENT SUPPLIES FOR PerkinElmer ATOMIC ABSORPTION

Graphite Components

<table>
<thead>
<tr>
<th>Instrument</th>
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<th>Similar to OEM Part No.</th>
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<tbody>
<tr>
<td>Tools and Other Supplies</td>
<td></td>
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</tr>
<tr>
<td>HGA-900/850/800/700/600/300 Furance</td>
<td>Insertion tool for L'vov platforms</td>
<td>B0112657</td>
<td>8003-0423</td>
</tr>
<tr>
<td>THGA Graphite Furnace Systems</td>
<td>Spare graphite tip, for fume extraction system</td>
<td>B0506722</td>
<td>8003-0955</td>
</tr>
<tr>
<td>THGA Graphite Furnace Systems</td>
<td>Filter cartridge, THGA AA600 Fume Extractor, 50/pk</td>
<td>B0509065</td>
<td>8003-0956</td>
</tr>
<tr>
<td>THGA Graphite Furnace Systems</td>
<td>O-ring (behind contact cylinder, front and back)</td>
<td>B0500748</td>
<td>8003-0957</td>
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Graphite Furnace Autosamplers

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS-71/72/800/900</td>
<td>Autosampler cups, 1.2 mL, polyethylene, 2,000/pk</td>
<td>B0510397</td>
<td>6610025900</td>
</tr>
<tr>
<td>AS-40/AS-60/AS-70/AS-71/AS-72 / AS-800/AS-900</td>
<td>Autosampler cups, 2.0 mL conical, polyethylene, 1,000/pk</td>
<td>B0087056</td>
<td>9910028200</td>
</tr>
<tr>
<td>AS-60/AS-70/AS-71/AS-72/AS-800/AS-900</td>
<td>PTFE sampling capillaries, solvent- and acid-resistant, for reduced contamination</td>
<td>B0129258</td>
<td>8003-0413</td>
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</tbody>
</table>

Sample Introduction

<table>
<thead>
<tr>
<th>Description</th>
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<th>Agilent Part No.</th>
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<tbody>
<tr>
<td>Y connector</td>
<td>09920179</td>
<td>8003-0414</td>
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</tbody>
</table>

LEARN MORE

_Determination of Essential Elements and Minerals In Drinking Water Using Flame AA_  
(Agilent publication 5991-6494EN).

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## Autosampler Supplies

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
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<tbody>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>Flame AA sampling probe assembly, corrosion-resistant, 0.6 mm id. Includes probe assembly, screw fitting and capillary tubing assembly, standard probe supplied with the autosampler.</td>
<td>B3001770</td>
<td>8003-0622</td>
</tr>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>Flame AA autosampling probe assembly, 0.6 mm id, stainless steel. Includes probe assembly, screw fitting and capillary tubing assembly.</td>
<td>B3000159</td>
<td>8003-0615</td>
</tr>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>FIAS sampling probe assembly, 0.6 mm id, stainless steel. Includes probe assembly, screw fitting, and capillary tubing assembly.</td>
<td>B3000160</td>
<td>8003-0616</td>
</tr>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>FIAS standard sampling probe assembly, 1.0 mm id, stainless steel. Includes probe assembly, screw fitting, and capillary tubing assembly.</td>
<td>B3000161</td>
<td>8003-0617</td>
</tr>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>Capillary tubing assembly for AS stainless steel probe, 0.6 mm id for flame AA, 1 m, with fitting, red.</td>
<td>B3000157</td>
<td>8003-0619</td>
</tr>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>Capillary tubing assembly, for AS stainless steel probe, 0.6 mm id for use with FIAS, 1 m. Includes 2 fittings, red.</td>
<td>B3000158</td>
<td>8003-0620</td>
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<table>
<thead>
<tr>
<th>Instrument</th>
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<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
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</thead>
<tbody>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>Capillary tubing assembly for AS stainless steel probe, 1.0 mm id for use with FIAS, 1 m. Includes 2 fittings, blue.</td>
<td>B0191060</td>
<td>8003-0621</td>
</tr>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>FIAS sampling probe assembly, corrosion-resistant, 0.6 mm id includes probe assembly, screw fitting, and capillary tubing assembly.</td>
<td>B3001771</td>
<td>8003-0623</td>
</tr>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>FIAS sampling probe assembly, corrosion-resistant, 1.0 mm id includes probe assembly, screw fitting, and capillary tubing assembly.</td>
<td>B3001772</td>
<td>8003-0624</td>
</tr>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>Corrosion-resistant sampling probe, 0.6 mm id, probe only, excluding capillary tubing assembly with FEP tube and screw fitting</td>
<td>B3000055</td>
<td>8003-0625</td>
</tr>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10</td>
<td>Cleaning wire, for autosampler probe</td>
<td>B0505962</td>
<td>8003-0629</td>
</tr>
<tr>
<td>AS-93plus/S10</td>
<td>Pump tubes for autosampler rinse, 2.79 mm id, purple/white, 6/pk</td>
<td>B3140721</td>
<td>8003-0645</td>
</tr>
<tr>
<td>AS-93plus/S10</td>
<td>Pump tubes for autosampler rinse, 1.14 mm id, red/red, 6/pk</td>
<td>B3140730</td>
<td>8003-0646</td>
</tr>
<tr>
<td>AS-90/90A/90plus/91/93plus/S10 Autosamplers</td>
<td>Corrosion-resistant sampling probe, 1.0 mm id, probe only, excluding capillary tubing assembly with FEP tube and screw fitting</td>
<td>B3001769</td>
<td>8003-0627</td>
</tr>
<tr>
<td>AS-93plus/S10 Autosampler</td>
<td>Adapter M with 1/4 in (6.4 mm) external thread, 4 mm od nipple</td>
<td>B0507919</td>
<td>8003-0666</td>
</tr>
<tr>
<td>ASX 500</td>
<td>Autosampler probe, 12 inch x 0.5 mm id, blue band</td>
<td>N0774088</td>
<td>G3286-80102</td>
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</tbody>
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# FIMS/FIAS

## Flow Injection System Supplies

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<th>Agilent Part No.</th>
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</thead>
<tbody>
<tr>
<td><strong>Adapters with Internal Thread</strong></td>
<td></td>
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</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Nipple A, 1.8 mm od</td>
<td>B0193342</td>
<td>8003-0653</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Nipple B, 3.3 mm od</td>
<td>B0506716</td>
<td>8003-0654</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Nipple C, 4 mm od</td>
<td>B0196850</td>
<td>8003-0655</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Nipple E for the quartz cell</td>
<td>B0196857</td>
<td>8003-0656</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Nipple F, 0.7 mm od, Pt/Ir capillary</td>
<td>B0193873</td>
<td>8003-0657</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Nipple G, to connect tubes to the preconcentration accessory</td>
<td>B0501580</td>
<td>8003-0658</td>
</tr>
<tr>
<td><strong>Adapters with External Thread</strong></td>
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</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Adapter K, 1/4 inch (6.4 mm) external thread, for 1.8 mm od nipple</td>
<td>B0507918</td>
<td>8003-0663</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Adapter L, 1/4 inch (6.4 mm) external thread, for 2.8 mm od nipple</td>
<td>B0507920</td>
<td>8003-0664</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Adapter N, 1/4 inch (6.4 mm) external thread, for 0.7 mm od Pt/Ir capillary nipple</td>
<td>B0507949</td>
<td>8003-0666</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Adapter M, 1/4 in (6.4 mm) external thread, for 4 mm od nipple</td>
<td>B0507919</td>
<td>8003-0665</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Screw plug, 1/4 inch (6.4 mm) external thread</td>
<td>B0507921</td>
<td>8003-0667</td>
</tr>
<tr>
<td><strong>Connectors</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>FIAS/ELAN 9000/6x00/DRC</td>
<td>Ferrule, front, 1/4 inch</td>
<td>09903456</td>
<td>8003-0592</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Connector, type 1A, with nipples, for 1.7 to 3.2 mm id tubes</td>
<td>B0199233</td>
<td>8003-0598</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Connector, type 1B with nipple, for 2.4 to 3.2 mm id tubes</td>
<td>B0196882</td>
<td>8003-0659</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Connector, type II with 1/4 inch (6.4 mm) internal screw thread</td>
<td>B0196704</td>
<td>8003-0660</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>T-piece, type IIIB, with nipples, for 1.5 to 2.5 mm id tubes</td>
<td>B0199035</td>
<td>8003-0661</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>T-piece, type IIIB, with nipples, for 3.5 to 4.5 mm id tubes</td>
<td>B0198201</td>
<td>8003-0662</td>
</tr>
</tbody>
</table>

*Continued*
# Flow Injection System Supplies

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
<th>OEM Part No.</th>
<th>Agilent Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Complete modular mixing/separation assembly. Includes 2 mixing manifolds with tubing adapters, gas liquid separator with PTFE membrane, 5 spare PTFE membranes, PTFE tube (110 mm), and PTFE tube (300 mm).</td>
<td>B0507957</td>
<td>8003-0668</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Modular “building block” type mixing manifold. Includes mixing channel and 3 connections, 2 inlet and 1 outlet. Made from chemically-resistant plastic. Several of these blocks can be connected in series for enhanced mixing capabilities.</td>
<td>B0507962</td>
<td>8003-0669</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Modular “building block” type gas/liquid separator. Made from chemically-resistant plastic. An exchangeable PTFE membrane in the screw cap prevents liquid from being carried into the quartz cell when working with strong foaming samples.</td>
<td>B0507959</td>
<td>8003-0670</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Mixing manifold, for gas/liquid separator</td>
<td>B0187258</td>
<td>8003-0674</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Gas/liquid separator, glass</td>
<td>B0193772</td>
<td>8003-0671</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Gas/liquid separator holder for glass separator</td>
<td>B0508479</td>
<td>8003-0672</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Membrane, PTFE, 50/pk</td>
<td>B0508306</td>
<td>8003-0673</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Sample loop, 200 µL</td>
<td>B0194048</td>
<td>8003-0679</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Sample loop, 500 µL</td>
<td>B0194049</td>
<td>8003-0680</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Sample loop, 1,000 µL</td>
<td>B0501000</td>
<td>8003-0681</td>
</tr>
</tbody>
</table>

(Continued)
## Flow Injection System Supplies

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Peristaltic Pump Tubing</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Peristaltic pump tubing, 3-stop, 0.76 mm id, black/black</td>
<td>B0506058</td>
<td>8003-0682</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Peristaltic pump tubing, 3-stop, 1.14 mm id, red/red</td>
<td>B0193160</td>
<td>8003-0683</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Peristaltic pump tubing, 3-stop, 1.52 mm id, yellow/blue</td>
<td>B0193161</td>
<td>8003-0684</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Peristaltic pump tubing, 3-stop, 2.06 mm id, violet/violet</td>
<td>B0199034</td>
<td>8003-0685</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Peristaltic pump tubing, 3-stop, 3.18 mm id, black/white</td>
<td>B0508310</td>
<td>8003-0686</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Peristaltic pump tubing, 3-stop, solvent-resistant, 1.02 mm id, white/white</td>
<td>B0507692</td>
<td>8003-0687</td>
</tr>
<tr>
<td><strong>PTFE Tubing</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing, PTFE, 1.75 mm id, 1m</td>
<td>B0017998</td>
<td>8003-0411</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing, PTFE, 1.0 mm id, 1m</td>
<td>B0029792</td>
<td>8003-0412</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing, PTFE, 0.35 mm id, 1 m</td>
<td>B0506060</td>
<td>8003-0688</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing, PTFE, 0.5 mm id, 1 m</td>
<td>B0507020</td>
<td>8003-0689</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing, PTFE, 0.7 mm id, 1 m</td>
<td>B0507021</td>
<td>8003-0690</td>
</tr>
<tr>
<td><strong>PTFE Tubing Assemblies</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing assembly, PTFE, 0.35 mm id, 60 mm, white</td>
<td>B0501594</td>
<td>8003-0691</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing assembly, PTFE, 1.0 mm id, 110 mm, blue</td>
<td>B0191058</td>
<td>8003-0692</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing assembly, PTFE, 1.0 mm id, 300 mm, blue</td>
<td>B0198097</td>
<td>8003-0693</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing assembly, PTFE, 1.0 mm id, 700 mm, blue</td>
<td>B0191059</td>
<td>8003-0694</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing assembly, PTFE, 1.75 mm id, 250 mm, black</td>
<td>B0198099</td>
<td>8003-0695</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing assembly, PTFE, 1.75 mm id, 450 mm, black</td>
<td>B0198100</td>
<td>8003-0696</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Capillary tubing assembly for AS stainless steel probe, 1.0 mm id, for use with FIAS, 1 m. Includes 2 fittings, blue.</td>
<td>B0191060</td>
<td>8003-0621</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Reactor, 3-dimensional, 0.35 mm id, two flanged ends</td>
<td>B0501595</td>
<td>8003-0697</td>
</tr>
</tbody>
</table>

(Continued)
# Flow Injection System Supplies

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Silicone Tubing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing, silicone, 5 mm id x 1 m, no fittings</td>
<td>B0018283</td>
<td>8003-0698</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing, silicone, 3 mm id x 1 m for Amalgamation System</td>
<td>B0070126</td>
<td>8003-0699</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tubing, silicone, 3 m, for FIMS cell exhaust outlet</td>
<td>B0046948</td>
<td>8003-0700</td>
</tr>
<tr>
<td>Other Supplies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Tool, for screw connectors</td>
<td>B0501315</td>
<td>8003-0675</td>
</tr>
</tbody>
</table>

# FIAS/FIMS Cell Parts

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
<th>Similar to OEM Part No.</th>
<th>Agilent Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIAS-100/400</td>
<td>Cell and windows, complete</td>
<td>B0507486</td>
<td>8003-0967</td>
</tr>
<tr>
<td>FIAS-100/400</td>
<td>Cell only, no windows</td>
<td>B0507487</td>
<td>8003-0968</td>
</tr>
<tr>
<td>FIMS-100, FIMS-400, FIAS-100 or FIAS-400</td>
<td>Window, quartz</td>
<td>B0066549</td>
<td>8003-0966</td>
</tr>
<tr>
<td>FIMS-100/400</td>
<td>Cell and windows, complete</td>
<td>B0510334</td>
<td>8003-0969</td>
</tr>
<tr>
<td>FIMS-100/400</td>
<td>Cell only, no windows</td>
<td>B0510370</td>
<td>8003-0970</td>
</tr>
<tr>
<td>FIMS-100/400</td>
<td>Hg lamp, for FIMS-100</td>
<td>B3000243</td>
<td>8003-0971</td>
</tr>
<tr>
<td>FIMS-100/400</td>
<td>Hg filter replacement, for Hg scrubber</td>
<td>B3000274</td>
<td>8003-0972</td>
</tr>
</tbody>
</table>

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