PerkinElmer offers a comprehensive range of analytical gas supply solutions that goes beyond simply ‘gas generators’. PerkinElmer is committed to providing analytical chemists with gas solutions that enable them to get the most out of their instruments. Whether the requirement is for ultra high purity hydrogen for use as a GC and GC/MS carrier gas or multiple gases to operate sophisticated LC/MS instrumentation, PerkinElmer’s offerings always keep the end user in mind.

### HYDROGEN GENERATORS

- **Features and Benefits**
  - Ultra safe operation
  - >99.99% purity
  - High purity guaranteed, 24/7
  - Class leading PEM cell featuring 2-year warranty as standard
  - CE, UL & CSA approved
  - Low life cycle cost, excellent return on investment

### ULTRA HIGH PURITY HYDROGEN GENERATORS

- **Features and Benefits**
  - Ultra safe operation
  - >99.9999% purity
  - High purity guaranteed, 24/7
  - Class leading PEM cell featuring 2-year warranty as standard
  - CE, UL & CSA approved
  - Low life cycle cost, excellent return on investment

### ZERO AIR GENERATORS

- **Features and Benefits**
  - High performance heated platinum catalyst
  - High efficiency filtration
  - Modular and stackable with all PerkinElmer hydrogen generators
  - CE, UL & CSA approved
  - Low life cycle cost, excellent return on investment
  - Superior resolution and lowered limits of detection
  - Safe and sustainable

### LC/MS NITROGEN GENERATORS

- **Features and Benefits**
  - Continuous automatic operation, 24/7
  - Phthalate-free componentry
  - Low life cycle cost, excellent return on investment
  - CE, UL & CSA approved
  - Safe and sustainable
  - Field proven Pressure Swing Adsorption (PSA) technology
  - Compact and robust design
### Hydrogen Gas Generators for Fuel Gas Applications

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Flow Rate (mL/min)</th>
<th>Purity (%)</th>
<th>Water Consumption (24/7, full flow) (L/week)</th>
<th>Delivery Pressure (psi/g)</th>
<th>Height (H) (in.)</th>
<th>Width (W) (in.)</th>
<th>Depth (D) (in.)</th>
<th>Weight (Empty) (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20H</td>
<td>N9303225</td>
<td>160</td>
<td>&gt;99.999</td>
<td>1.25</td>
<td>5-100</td>
<td>17.9</td>
<td>13.5</td>
<td>17.2</td>
<td>41.9</td>
</tr>
<tr>
<td>40H</td>
<td>N9303226</td>
<td>250</td>
<td>&gt;99.999</td>
<td>2</td>
<td>5-100</td>
<td>17.9</td>
<td>13.5</td>
<td>17.2</td>
<td>41.9</td>
</tr>
<tr>
<td>60H</td>
<td>N9303227</td>
<td>500</td>
<td>&gt;99.999</td>
<td>4</td>
<td>5-100</td>
<td>17.9</td>
<td>13.5</td>
<td>17.2</td>
<td>41.9</td>
</tr>
</tbody>
</table>

### Ultra High Purity Hydrogen Gas Generators for Carrier Gas Applications

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Flow Rate (mL/min)</th>
<th>Purity (%)</th>
<th>Water Consumption (24/7, full flow) (L/week)</th>
<th>Delivery Pressure (psi/g)</th>
<th>Height (H) (in.)</th>
<th>Width (W) (in.)</th>
<th>Depth (D) (in.)</th>
<th>Weight (Empty) (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20H-MD</td>
<td>N9303201</td>
<td>160</td>
<td>&gt;99.999</td>
<td>1.69</td>
<td>10-100</td>
<td>17.9</td>
<td>13.5</td>
<td>18.5</td>
<td>45.2</td>
</tr>
<tr>
<td>40H-MD</td>
<td>N9303202</td>
<td>250</td>
<td>&gt;99.999</td>
<td>2.41</td>
<td>10-100</td>
<td>17.9</td>
<td>13.5</td>
<td>18.5</td>
<td>45.2</td>
</tr>
<tr>
<td>60H-MD</td>
<td>N9303203</td>
<td>500</td>
<td>&gt;99.999</td>
<td>4.82</td>
<td>10-100</td>
<td>17.9</td>
<td>13.5</td>
<td>18.5</td>
<td>45.2</td>
</tr>
<tr>
<td>110H-MD</td>
<td>N9303204</td>
<td>1100</td>
<td>&gt;99.999</td>
<td>10.60</td>
<td>10-100</td>
<td>17.9</td>
<td>13.5</td>
<td>18.5</td>
<td>51.8</td>
</tr>
</tbody>
</table>

### Ambient Temperature Range
41-104 °F

### Water Quality
Deionized, ASTM® II, >1 MΩ, <1 µs, filtered to <100 µm

### Maximum Water Supply Pressure/Flow*
1.45 psi g / 1 L/min

### Supply Voltage Range
Universal 120/230 V ±10% (60/50 Hz)

### Port Connections
Hydrogen Outlet Water Drain
1/8" Compression Fitting Quick Release Push in Fitting

*With Auto Water Refill option

### Zero Air Generators

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No. (120 V)</th>
<th>Part No. (230 V)</th>
<th>Flow Rate (L/min)</th>
<th>Organic Purity (ppm)</th>
<th>Air Inlet @ 58-145 psig (L/m)</th>
<th>Delivery Pressure (psi/g)</th>
<th>Height (H) (in.)</th>
<th>Width (W) (in.)</th>
<th>Depth (D) (in.)</th>
<th>Weight (lbs.)</th>
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</thead>
<tbody>
<tr>
<td>UHP-35ZA-S</td>
<td>N9303206</td>
<td>N9303205</td>
<td>3.5</td>
<td>&lt;0.1</td>
<td>4.2</td>
<td>58-145</td>
<td>17.9</td>
<td>13.4</td>
<td>16.7</td>
<td>31.3</td>
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<tr>
<td>UHP-50ZA-S</td>
<td>N9303208</td>
<td>N9303207</td>
<td>5.0</td>
<td>&lt;0.1</td>
<td>6.0</td>
<td>58-145</td>
<td>17.9</td>
<td>13.4</td>
<td>16.7</td>
<td>31.3</td>
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<tr>
<td>UHP-150ZA-S</td>
<td>N9303210</td>
<td>N9303209</td>
<td>15</td>
<td>&lt;0.1</td>
<td>18</td>
<td>58-145</td>
<td>17.9</td>
<td>13.4</td>
<td>16.7</td>
<td>31.3</td>
</tr>
<tr>
<td>UHP-300ZA-S</td>
<td>N9303212</td>
<td>N9303211</td>
<td>30</td>
<td>&lt;0.1</td>
<td>35</td>
<td>58-145</td>
<td>17.9</td>
<td>13.4</td>
<td>16.7</td>
<td>31.3</td>
</tr>
</tbody>
</table>

### Ambient Temperature Range
41-104 °F

### Required Inlet Air Quality
Clean dry compressed air ISO8573-1:2001 Class 3.2.1

### Supply Voltage Range
120 V/60 Hz or 230 V/50-60 Hz ±10%

### Port Connections
Outlet (N9303205 and N9303206)
Outlet (N9303207 and N9303208)
Outlet (N9303207-N9303212) 1/8" Compression Fitting
Outlet (N9303205-N9303206) 1/4" Compression Fitting
Outlet (N9303207-N9303212) 1/4" Compression Fitting

### Zero Air Generators

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No. (120 V)</th>
<th>Part No. (230 V)</th>
<th>Flow Rate (L/min)</th>
<th>Purity (ppm)</th>
<th>Delivery Pressure (psi/g)</th>
<th>Height (H) (in.)</th>
<th>Width (W) (in.)</th>
<th>Depth (D) (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>With integrated compressor</td>
<td></td>
<td></td>
<td>30</td>
<td>&gt;98</td>
<td>101.5</td>
<td>27.8</td>
<td>20.1</td>
<td>22.9</td>
<td>298</td>
</tr>
</tbody>
</table>

### LC/MS Nitrogen Generators

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No. (120 V)</th>
<th>Part No. (230 V)</th>
<th>Flow Rate (L/min)</th>
<th>Purity (%)</th>
<th>Delivery Pressure (psi/g)</th>
<th>Height (H) (in.)</th>
<th>Width (W) (in.)</th>
<th>Depth (D) (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCMS30-1</td>
<td>N9303223</td>
<td>N930224</td>
<td>30</td>
<td>&gt;98</td>
<td>101.5</td>
<td>27.8</td>
<td>20.1</td>
<td>22.9</td>
<td>298</td>
</tr>
</tbody>
</table>

### Ambient Temperature Range
41-104 °F

### Supply Voltage Range
120 V/60 Hz or 230 V/50-60 Hz ±10%

### Port Connections
Nitrogen Outlet 1/4" Compression Fitting

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*Visit www.perkinelmer.com for a complete listing of flow rates.*