Proton OnSite manufactures hydrogen, nitrogen, and zero air gas generators that you can rely on. Our on-site gas generators provide a safe, reliable, and cost-effective way for our customers to get the gas they need, when and where they need it.

For more information visit: www.ProtonOnSite.com
Hydrogen Generation from Proton OnSite

Many laboratories are switching from helium to hydrogen for GC and GC-MS carrier gas. Variable gas supply and skyrocketing price increases are the driving force behind this movement. Proton OnSite’s hydrogen generators can safely and efficiently provide both fuel gas and carrier gas for gas chromatography applications while providing a ROI that is measured in weeks on average.

Our Proton Exchange Membrane (PEM) technology allows for load-following demand that only produces what is required. Thus, without stored hydrogen on hand you are left with a safer lab environment.

Our generators offer unsurpassed flexibility to meet the demands of any lab. Ideal for both interim use and high-throughput labs, hydrogen yields faster run times without sacrificing resolution. On-site gas generation offers a consistent, quality supply of gas that is running whenever you are.

Hydrogen G200/G400/G600/G600-HP Generators

G Series bench-top generators employ PEM technology to produce Ultra High Purity (UHP) hydrogen consistently on-site. They sense demand and adjust production accordingly. Featuring an advanced gas purification design, G600-HP units generate hydrogen with purity at 99.99999% to meet the unique requirements of carrier gas and extending the life of your columns.

Features:
- Compact size and quiet operation
- Low maintenance
- Auto fill water level control
- Water purity monitor
- Purge airflow system
- Removable water tank
- 1 year warranty
- 5 year cell stack warranty
- Proton Care service plans available for up to 5 years of coverage

Hydrogen G4800 and S Series Generators

With a production rate of 4.7 to 18.8 SLPM, Proton OnSite’s compact G4800 and S Series hydrogen generators produce the equivalent of four cylinders of better-than-UHP grade hydrogen every day. Featuring advanced PEM technology, they sense demand and adjust production accordingly.

Features:
- Compact size and quiet operation
- Low maintenance
- Maintenance reminder
- Auto fill water control
- Water purity monitor
- Purge airflow system
- Automatic leak detection
- Purge airflow system
- Report alarms
- 1 year warranty
- Proton Care service plans

Proton Care

A service plan which provides an extension of your factory warranty – plus more!

With Proton Care you will receive a yearly visit from a Proton Field Service Engineer who will perform preventive maintenance on your generator. Simply call or email Proton Technical Service at +1.203.949.8697 or techsupport@protononsite.com to schedule a visit at a time that is convenient and we’ll bring the maintenance parts with us to ensure your generator continues running in optimal condition year round.

In the unlikely event that your generator requires service, members of our experienced technical support team are available to help diagnose the issue and dispatch one of our Field Service Engineers accordingly. Our world-wide service team will respond to your questions within 24 hours. If your generator is down and our support team can’t resolve the issue remotely, we will priority dispatch one of our Field Service Engineers to your location within 72 hours.

Choose Proton Care for reliable gas generation and the peace of mind that your equipment is being cared for properly.

- The factory warranty is extended – all generator parts are covered with no additional charges.
- Each year of Proton Care includes parts and labor for one preventive maintenance visit performed by a Proton OnSite Field Service Engineer.
- Email and phone inquiries receive priority attention from Proton OnSite’s Technical Service Department.
- Discounts for multiple year purchases- available up to five years.

Contact Us

www.ProtonOnSite.com
+1.203.949.8697
techsupport@protononsite.com

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- Compact size and quiet operation
- Low maintenance
- Maintenance reminder
- Auto fill water control
- Water purity monitor
- Automatic leak detection
- Purge airflow system
- Report alarms
- 1 year warranty
- Proton Care service plans
Nitrogen Generation from Proton OnSite

Proton OnSite nitrogen generators are designed to utilize an existing air source or an internal compressor to produce nitrogen on demand. Nitrogen is the most abundant gas in the atmosphere. Proton OnSite has a range of both Membrane and Pressure Swing Adsorption (PSA) systems to meet all application requirements and demands.

Membrane Technology

Nitrogen N341M Generator

N341M generators employ membrane technology to produce clean nitrogen from an internal oil-free compressor where external compressed air is not available. They sense demand and adjust production accordingly.

Features:
- Compact size and quiet operation
- Low maintenance
- Maintenance reminders
- Report alarms
- Touchscreen display
- 1 year warranty
- Proton Care service plans

Nitrogen N34M/N60M/N75M/N120M/N380M-TV and N250M/N400M Generators

N34M/N60M/N75M/N120M/N380M-TV and N250M/N400M wall-mountable generators employ membrane technology to produce clean nitrogen from external compressed air sources. N380M-TV generators are specially configurable for sample evaporation and concentration applications.

Features:
- Compact size and quiet operation
- Low maintenance
- No electricity required
- Compressor solutions available
- Floor-stand available for N250M and N400M
- 1 year warranty
- Proton Care service plans

Nitrogen N6P/N61P Generators

N6P/N61P generators employ PSA technology with highly efficient carbon molecular sieves to produce high purity nitrogen from an internal air compressor. Equipped with an internal oil-free compressor, N61P generators suit environments where external compressed air is not available.

Features:
- Compact size and quiet operation
- Low maintenance
- Maintenance reminders
- Report alarms
- Touchscreen display
- Wheels for portability
- 1 year warranty
- Proton Care service plans

Pressure Swing Adsorption Technology

Nitrogen N600P Generator

N600P bench-top generators employ PSA technology with highly efficient carbon molecular sieves to produce high purity nitrogen from an external compressed air source.

Features:
- Compact size and quiet operation
- Low maintenance
- Maintenance reminders
- Report alarms
- Touchscreen display
- Stackable
- Compatible with A201 air compressor
- 1 year warranty
- Proton Care service plans

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Features:
- Compact size and quiet operation
- Low maintenance
- Maintenance reminders
- Report alarms
- Touchscreen display
- Wheels for portability
- 1 year warranty
- Proton Care service plans
Zero Air Generation from Proton OnSite

Proton OnSite’s zero air gas generators produce clean zero-grade air utilizing catalyzer technology and Pressure Swing Adsorption (PSA) technology which will meet different requirements for various labs.

Using a Proton OnSite gas generator not only saves tremendous valuable floor space, but also optimizes the operation. No more waiting for delivery, switching empty cylinders, or recalibrating new cylinders. Plug in, and it is all set.

Zero Air A2/A5/A10/A30 Generators

A2/A5/A10/A30 generators utilize catalyzer technology to produce clean hydrocarbon-free air from an external air source.

Features:
- Compact size and quiet operation
- Low maintenance
- Wall-mountable
- 1 Year Warranty and available Proton Care service plans

Air Compressor A201

A201 units are standalone oil-free compressors that provide a compressed dry and clean air source for use where high quality external air sources are not available. They sense demand and adjust production accordingly.

Features:
- Compact size and quiet operation
- Low maintenance
- Hour meter
- Stackable
- Able to supply up to two modules, compatible with N600P and A2/A5/A10
- 1 Year Warranty
- Proton Care service plans

Multi-Gas Generation for Shimadzu® and Sciex®
LC-MS Instruments from Proton OnSite

Proton OnSite’s multi-gas generators produce high purity nitrogen, and dry air, or high purity nitrogen, dry air, and zero air from integrated compressed air sources. Using an on-site dualgas or trigas generator offers uncompromising flexibility for LC-MS applications. Proton multi-gas generators work with a range of LC-MS equipment, including Shimadzu and Sciex. Proton OnSite has a proven history of providing reliable and convenient lab gas solutions. Why not solve all your LC-MS lab needs with one solution?

Dualgas D251M Generator (Shimadzu)

The D251M gas generator utilizes membrane technology to produce LC-MS grade nitrogen and dry air from integrated compressed air sources. The generators are space-saving solutions that maintain a whisper quiet and steady operation.

Features:
- Designed for use with Shimadzu LC-MS Instruments
- Dual gas outputs for nitrogen and dry air
  (Maximum pressure: Nitrogen 110 psig and Dry Air 100 psig)
- Demand sensing technology intelligently and efficiently meets instruments gas demands
- Plug and play operation allows for flexible configuration and easy installation
- Low maintenance means you can concentrate on what matters
- 1 year warranty
- Proton Care service plans

Trigas T421M Generator (Sciex)

The T421M generator utilizes membrane technology to produce LC-MS grade nitrogen, dry air, and zero air from internal compressors. The generators are space-saving solutions that maintain a whisper quiet and steady operation.

Features:
- Designed for use with Sciex LC-MS instruments
- Three gas outputs for nitrogen, zero air and dry air
  (Maximum pressure: Nitrogen 80 psig, Zero Air 110 psig and Dry Air 60 psig)
- Demand sensing technology intelligently & efficiently meets instruments gas demands
- Plug and play operation allows for flexible configuration and easy installation
- Low maintenance means you can concentrate on what matters
- 1 year warranty
- Proton Care service plans
<table>
<thead>
<tr>
<th>Product Name</th>
<th>Flow Rate</th>
<th>Purity</th>
<th>Pressure</th>
<th>Power</th>
<th>Stackable</th>
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</thead>
<tbody>
<tr>
<td>Hydrogen Gas Generators</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Hydrogen G200</td>
<td>200 cc/min</td>
<td>99.9995%</td>
<td>3-8 barg</td>
<td>43-116 psig</td>
<td>120-230 VAC</td>
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<tr>
<td>Hydrogen G400</td>
<td>400 cc/min</td>
<td>99.9999%</td>
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<tr>
<td>Hydrogen G600</td>
<td>600 cc/min</td>
<td>99.99999%</td>
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<tr>
<td>Hydrogen G600-HP</td>
<td>600 cc/min</td>
<td>99.99999%</td>
<td>13.8 barg</td>
<td>200 psig</td>
<td>205-240 VAC</td>
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<tr>
<td>Hydrogen G4800</td>
<td>4.7 l/min</td>
<td>+99.9999%</td>
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<td>Hydrogen S20</td>
<td>9.4 l/min</td>
<td>99.9995%</td>
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<tr>
<td>Hydrogen S40</td>
<td>18.8 l/min</td>
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<td>Nitrogen Gas Generators</td>
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<tr>
<td>Nitrogen N341M</td>
<td>34 l/min</td>
<td></td>
<td>0-7 barg</td>
<td>0-100 psig</td>
<td>230 VAC</td>
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<tr>
<td>Nitrogen N34M</td>
<td>34 l/min</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Nitrogen N60M</td>
<td>60 l/min</td>
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<td>Nitrogen N75M</td>
<td>75 l/min</td>
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<tr>
<td>Nitrogen N120M</td>
<td>120 l/min</td>
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<tr>
<td>Nitrogen N250M</td>
<td>250 l/min</td>
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<tr>
<td>Nitrogen N400M</td>
<td>400 l/min</td>
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<tr>
<td>Nitrogen N380M-TV</td>
<td>380 l/min</td>
<td>90%</td>
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<tr>
<td>Nitrogen N600P</td>
<td>600 cc/min</td>
<td>99.999%</td>
<td>0-7 barg</td>
<td>0-100 psig</td>
<td>230 VAC</td>
</tr>
<tr>
<td>Nitrogen N6P</td>
<td>5 l/min</td>
<td>99.9995%</td>
<td>0-7 barg</td>
<td>0-100 psig</td>
<td>230 VAC</td>
</tr>
<tr>
<td>Nitrogen N61P</td>
<td>6 l/min</td>
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<tr>
<td>Multi-Gas Generators</td>
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</tr>
<tr>
<td>Nitrogen, Zero Air and Dry Air T421M (Sciex)</td>
<td>Nitrogen 10 l/min</td>
<td>Purity meets LCMS grade requirements.</td>
<td>0-5.5 barg</td>
<td>0-80 psig</td>
<td>230 VAC</td>
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<tr>
<td></td>
<td>Dry Air   10 l/min</td>
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<td>0-4.1 barg</td>
<td>0-60 psig</td>
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<tr>
<td></td>
<td>Zero Air  22 l/min</td>
<td></td>
<td>0-7.6 barg</td>
<td>0-110 psig</td>
<td></td>
</tr>
<tr>
<td>Nitrogen and Dry Air D251M (Shimadzu)</td>
<td>Nitrogen 24.4 l/min</td>
<td>Purity meets LCMS grade requirements.</td>
<td>0-7.6 barg</td>
<td>0-110 psig</td>
<td>230 VAC</td>
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<tr>
<td>Maximum combined output 25 l/min.</td>
<td>Dry Air 25 l/min</td>
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<td>0-6.9 barg</td>
<td>0-100 psig</td>
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<tr>
<td>Zero Air Generators</td>
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<tr>
<td>Zero Air A2</td>
<td>2 l/min</td>
<td>&lt;0.05 ppm HC</td>
<td>0-7 barg</td>
<td>0-100 psig</td>
<td>120 VAC</td>
</tr>
<tr>
<td>Zero Air A5</td>
<td>5 l/min</td>
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<tr>
<td>Zero Air A10</td>
<td>10 l/min</td>
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<tr>
<td>Zero Air A30</td>
<td>30 l/min</td>
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<tr>
<td>Air Compressor</td>
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</tr>
<tr>
<td>Air Compressor A201</td>
<td>20 l/min</td>
<td>-</td>
<td>0-8.6 barg</td>
<td>0-125 psig</td>
<td>230 VAC</td>
</tr>
</tbody>
</table>

**Specifications are subject to change, please consult Proton OnSite for details.**