

# **PG-PLUS** > **99,9996%** H<sub>2</sub> (Grade 5.6)

MODELS	PG-100 PLUS	PG-160 PLUS	PG-250 PLUS	PG-500 PLUS
Part Number	N9308577	N9308578	N9308579	N9308580
Flow mL/min.	100	160	250	500
Purity	99.9996%	99.9996%	99.9996%	99.9996%
Dewpoint at Seven Bar	-25 °C (-77 °F)			
Outlet Pressure Bar (psi)	0.5 to 11 (7 to 160)			
Technology	PEM (Proton Exchange Membrane) - 100% Titanium cell			
Drying System	Regenerative Permeation Membrane			
Deionised Water Quality	Minimum <1 micro S/cm @ 25 °C - 1 Mohm-cm @ 25 °C – ASTM II Recommended <0.2 micro S/cm @ 25 °C – 5 Mohm-cm @ 25 °C – ASTM II			
Internal Water Tank (Litres)	2.5			
Safety	Automatic shut down - internal/external hydrogen leak, overpressure and low water			
Display	Touch screen with operating parameters, system status and safety alarms			
Led Indicators	Power on / off, system ready, errors			
Interface	USB mod A			
Electricial Supply	110-120V 60Hz / 220-240V 50Hz			
Power Consumption Watts	75	95	140	190
Dimensions mm (in.)	230W x 480H x 370D (9W x 19H x 15D)			
Product Weight kg (lb)	13 (28.5)	13 (28.5)	13 (28.5)	15 (33)
Shipping Box Dimensions	580W x 570H x 400D (22.8W x 22.4H x 15.7D)			
Shipping Weight kg (lb)	17 (37.5)	17 (37.5)	17 (37.5)	19 (42)
Operating Temperature °C (°F)	15 to 35 (59 to 95)			
Outlet Connection	1/8" Compression			
Certification	CE, MET, FCC			
OPTIONS				
Auto Water Refill	Continous water feed from an external water supply			
Cascading	Up to 10 units – built in redundancy for guaranteed up-time			
Interface	RS232 / RS485, external contacts, PC control and intranet			



## **Applications**

#### **GC** Applications

- Gc-Fid Fuel Gas
- Gc-Npd Plasma Gas
- Gc-Fpd Fuel Gas

## **Analyzer Applications**

• Total Hydrocarbon Analyzer (Tha) Fuel Gas

## **Other Lab Applications**

- Hydrogenation Reactors
- Hydrogen Fuel Cells

## **Increase Laboratory Efficiency**

A constant gas supply with a guaranteed purity, eliminates interruptions of analyses to change cylinders and reduces the amount of instrument re-calibrations required.

# **Improve Safety**

Gas is produced on demand, which allows for the safe use of the hydrogen generator when cylinders are prohibited or regarded as potentially dangerous. Sophisticated software control and full alarm capability, including for hydrogen leaks, gives the users full control of the gas supply.

# **Enhance Instrument Performance**

Gas generators can be installed in the laboratory close to the instrument, eliminating the need for long gas lines from external cylinder supplies. A constant guaranteed high purity gas supply improves stability and ensures greater reproducibility of results.

The PerkinElmer hydrogen generators offer the optimum combination of safe operation, reliability and performance. Designed as a hazard free alternative to high pressure cylinders, all that is required is deionised water and a standard electrical supply for weeks of continous operation.

Utilizing the propriorty prepared field proven PEM (Proton Exchnage Membrane) incorporated inside a 100% titanium cell, provides superior generator performance and cell life. The unique high pressure Nafion membrane drying system eliminates the requirement for desiccant cartridges along with the associated downtime and cost. Innovative software control allows unrivalled operational performance and safety as well as the additonal options of auto water feed, remote networking and cascading for bulit in redundancy.

With a maximum output capacity of 600 ml/min, one generator can supply up to 14 GC's. The compact design allows the generator to be installed directly in the laboratory eleminating the requirement for long gas lines and guaranteeing the delivery of high purity gas to your GC.

## PerkinElmer, Inc.

940 Winter Street Waltham, MA 02451 USA P: (800) 762-4000 or (+1) 203-925-4602 www.perkinelmer.com A sophisticated control system connected to a touch screen control, continuously monitors the vital operating parameters to ensure a safe and cosnsistent performance. Built in sensors will shut the generator down if internal/external leaks are present, contaminted water, low water or over pressure. This is why our generators meet the strict safety guidelines to be certified for CE, MET and FCC.

#### Features

- Produces a continous supply of hydrogen
- On demand supply 24/7
- Flow rate: 100 to 600 ml/min
- Purity: 99.9996%
- Pressure: 11 bar
- Propriotory 100% titanium cell technology
- Unique Nafion membrane drying system
- USB connectivity
- Two year complete cell and product warranty
- Easy to install, operate and maintain

## **Benefits**

- Eliminates dangerous high pressure cylinders helping to keep your employees safer
- Removes the logistics, inconevenince, downtime and costs of a cylinder system
- Flow capacity to match your specific instrument demands
- Ideal for all GC detector applications
- Meets and exceeds the requirements for the most demanding GC applications
- Superior hydrogen production with reliable long life cell
- Minimal maintenance no desiccant cartridges to change
- PC monitoring for maintenance, diagnostics and remote connection
- Peace of mind
- Improve your laboratory work flow and productivity



For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

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