Hydrogen Generators

for Gas Chromatography

Palladium

Hydrogen on Demand, up to 300 ml/min

Ultra high purity hydrogen generators from Parker Balston are designed as hazard-free alternatives to high-pressure hydrogen cylinders. Deionised water and an electrical supply is all that is required to generate hydrogen for weeks of continuous operation.

Automatic feed-water is available as standard for remote installations or where minimal operator attention is required. With an output capacity of up to 300 ml/min, one generator can supply 99.99999% pure fuel gas for up to 7 FID's or several GC's with carrier gas or several GC/MS with carrier gas.

Contact Information:

Parker Hannifin Limited
Air and Gas
Hermitage Court, Hermitage Lane
Maidstone, Kent ME16 9NT

phone +44 (0)1622 723300
fax +44 (0)1622 728703
balstonukinfo@parker.com

www.parker.com/pag

Product Features:

- Produces a continuous supply of 99.99999% pure hydrogen gas at up to 4.1 bar
- Designed to run 24 hours a day
- Ideal for carrier gas requirements for GC/MS
- Eliminate dangerous hydrogen cylinders from the laboratory
- Simple low cost annual maintenance
- Ideal for fuel and carrier gas requirements on GC-FID

Parker BALSTON
Analytical Gas Systems

ENGINEERING YOUR SUCCESS.

Certified Safety
Parker Balston hydrogen generators utilise an exclusive palladium membrane to produce hydrogen on demand. A built in pressure transducer monitors the down stream requirements. This ensures the hydrogen generator produces only enough gas for the application keeping internal storage to an absolute minimum.

A sophisticated control system connected to a liquid crystal display, continuously monitors the vital operating parameters to ensure a safe and consistent performance.

That's why Parker Balston hydrogen generators meet the strict safety guidelines to be certified for CE, CSA and UL approval.

Proven Technology
Parker Balston's exclusive Palladium Membrane is proven in thousands of GC installations worldwide.

Maintenance requires only a few minutes per year - no inconvenient extended downtime. Simply change the electrolyte every 12 months.

Hydrogen gas is produced by electrolytic dissociation of water. The resultant hydrogen stream then passes through a palladium membrane to ensure ultra high purity.

Only hydrogen and its isotopes can penetrate the palladium membrane; therefore, the purity of the output gas is **consistently** 99.99999+%

Principal Specification

Model	H2PD-150	H2PD-300
Purity	99.99999+%	99.99999+%
Flow Rates	150 ml/min	300 ml/min
Outlet Connection	1/8" compression	1/8" compression
Delivery Pressure (Adjustable)	0.7 to 4.1 bar	0.7 to 4.1 bar
Auto Water Fill	Yes	Yes
Water Quality Required	> 5 Mohm	> 5 Mohm
Ambient Temperature	10 to 35°C	10 to 35°C
Electrical Requirements	230VAC - 50Hz	230VAC - 50Hz
Power Consumption	200 Watts	200 Watts
Dimensions (H x W x D)	580 x 300 x 300 mm	580 x 300 x 300 mm
Weight (Shipping)	23 Kg (26)	23 Kg (26)

Ordering Information

Description	Model Number
150 ml/min Hydrogen Generator	H2PD-150
300 ml/min Hydrogen Generator	H2PD-300
Installation Kit	IK7532

Maintenance Items	Model Number	Change Frequency
Electrolyte Solution	REAG-920071	12 Months

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