

Hydrogen Generators

for GC combustion detector applications



The Parker domnick hunter H high purity hydrogen gas generators offer the optimum combination of safe operation, reliability and performance.

Utilising field proven PEM cell technology, hydrogen is produced on demand from deionised water and electricity, at low pressure and with minimal stored volume. Innovative control software allows unrivalled operational safety and reliability.

The H generators ideally supply fuel gas to all known GC combustion detectors used in today's laboratory workflows. Three models operate at flow rates; 160 ml/min, 250 ml/min and 500 ml/min.

Hydrogen generators are available with Remote Networking software. Remote Networking software allows up to 27 hydrogen generators to be actively controlled from one central PC, and facilitates true cascading capabilities.



Contact Information:

Parker Hannifin Manufacturing Limited
domnick hunter Filtration and Separation Division
Dukesway, Team Valley Trading Estate
Gateshead, Tyne and Wear
England NE11 0PZ

Tel: +44 (0)191 402 9000

Fax: +44 (0)191 482 6296

Email: gasgen@parker.com

www.parker.com/dhfns

Product Features:

- **Eliminate dangerous hydrogen cylinders from the work place**
- **Simple to install and operate**
- **Compact, reliable with minimal maintenance**
- **Produces a continuous supply of 99.9995% pure hydrogen at up to 6.9 bar**
- **2 year standard cell warranty**
- **Optional automatic water fill and remote networking capability**

Product Selection

Model	Flow Rate		Purity*	Water Consumption (24/7, full flow)	Delivery Pressure		Optional Auto Water Fill (AWF)
	ml/min				bar g	psi g	
20H	160		>99.9995	1.25	0.3-6.89	5-100	YES
40H	250		>99.9995	2	0.3-6.89	5-100	YES
60H	500		>99.9995	4	0.3-6.89	5-100	YES

*With respect to oxygen

Note: For auto water fill option add suffix AWF ie 20H-AWF

Technical Data

Ambient Temperature Range	5 - 40°C 41 - 104°F
Water Supply Pressure*	0.1 bar g 1.45 psi g
Water Supply Flow Rate*	1 L/min
Water Quality	Deionised. ASTM II, >1MΩ, <1µs, filtered to <100µm
Supply Voltage Range	90 - 264V 50/60Hz
Port Connections	Hydrogen Outlet Water Drain Water Fill*
	1/8" Compression Fitting Quick Release Push in Fitting Quick Release Push in Fitting

*With optional AWF

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight (Empty)		Weight (Full of Water)	
	mm	in	mm	in	mm	in	kg	lb	kg	lb
20H	456	17.9	342	13.5	437	17.2	19	41.9	23	50.7
40H	456	17.9	342	13.5	437	17.2	19	41.9	23	50.7
60H	456	17.9	342	13.5	437	17.2	19	41.9	23	50.7

Preventative Maintenance

Preventative Maintenance Kit	Part Number	Change Frequency
Replacement desiccant cartridge	604970412	As required*
6 month kit	604970600	6 months
24 month kit	604970532	24 Months

* 20H Continuous operation approx 6 to 7 months

* 40H Continuous operation approx 4 to 5 months

* 60H Continuous operation approx 2 to 3 months

Optional Extra's

Description	Part Number	Required for
Remote Networking Module	H2-REMOTE-NET-DH 604971530	Allows cascading of two generators
Remote Networking Expansion Module	H2-REMOTE-EXP-DH 6049711540	Required to cascade each additional generator
Remote Monitoring Module	H2-REMOTE-MON-DH 604971532	Allows the remote monitoring of one generator
Installation kit	IK7532	Suitable for all hydrogen generators