

# HG 4U PRO

## PEM Rack 19" Hydrogen generator

The HydroGen series **HG 4U PRO** is able to generate 2000 cc/min of Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 PSI). The HG 4U PRO includes an electrolytic cell with polymeric membrane (PEM) using distilled water. The two-column PSA drying system with automatic regeneration ensures the maximum grade of hydrogen purity, and is completely maintenance-free. The HG 4U PRO is the ideal Hydrogen for all GC-FID detectors. The on-board CPU constantly control the operating parameters to guarantee full safety. The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.

### Main Applications

- Carrier gas for GC and GC-MS
- GC-FID / GC-NPD / GC-FPD
- THA
- Gas sensing
- Fuel cell

### Main Advantages

- ✓ Quick installation
- ✓ Easy use
- ✓ Hydrogen flow rate 2000 cc/min
- ✓ Pressure up to 16 bar (232 psi)
- ✓ Hydrogen purity: 99.99999%
- ✓ RS 485, RS 232 and USB as standard
- ✓ LAN optional
- ✓ Dryer with no maintenance
- ✓ Reduced foot print: 19" rack 4U
- ✓ High pressure GLS electronically controlled (patented)



## Specifications



Models: HG 4U PRO	800	900	1000	1200	2000
<b>General information</b>					
Electrolytic cell	PEM technology				
Drying system	PSA (Pressure Swing Adsorption)				
H2 purity <sup>1</sup>	>99.99999%				
Outlet pressure	12 Bar(174 psi) - optional 16Bar(232psi)				
H2 flow rate cc/min (max)	800	900	1000	1200	2000
Dimensions	Standard 19" Rack 4U – deep 48cm				
Net weight (water tank empty)	22Kg		25Kg		26Kg
<b>Communication</b>					
RS485	Standard				
RS232	Standard				
USB	Standard				
LAN	Optional				
<b>Software function</b>					
Parallel mode capability	Standard				
Fill canister function	Standard				
<b>Water</b>					
Quality	Deionized, ASTM II, <0.1uS				
Supply Pressure (Min, Max)	-0.2 bars (1.4 psi), 1 Bar (14 psi)				
Supply Flow Rate(min, max)	0.2 l/min, 1.5 l/min				
Internal water tank capacity	1.1 l				
External tank capacity	5, 10 or 24 l				
<b>Electrical data</b>					
Connection type	IEC320-C13				
Supply voltage	100-240Vac 50/60Hz (200-240Vac 50/60Hz for 4U PRO 2000)				
Installation Power (max)	450W	560W		960W	
Fuse Rating (5x20 mm)	6,3A 250VAC				
<b>Connections</b>					
Hydrogen Outlet	1/8" Compression Fitting				
Water	Quick Release Push in Fitting				

<sup>1</sup> referred to O2, Dew-point <-75°C

### Ordering codes

#### Gas Generators

6920.16.080

6920.16.090

6920.16.100

6920.16.120

6920.16.200

#### Consumable

6930.00.091

HG 4U PRO 800

HG 4U PRO 900

HG 4U PRO 1000

HG 4U PRO 1200

HG 4U PRO 2000

Deionizer water filter



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