

HG 5U PRO 4000

PEM Rack 19" Hydrogen generator

The HydroGen series **HG 5U PRO 4000** is able to generate 4000 cc/min of Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 PSI). The HG 5U 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 5U PRO is the ideal Hydrogen for all GC-FID detectors. The on-board CPU constantly controls 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 4000 cc/min
- ✓ Pressure up to 16 bar (232 psi)
- ✓ Hydrogen purity: 99.99999%
- ✓ RS 485 and USB as standard
- ✓ LAN optional
- ✓ Dryer with no maintenance
- ✓ Reduced foot print: 19" rack 5U
- ✓ High pressure GLS electronically controlled (patented)



Specifications



Model: HG 5U PRO	4000	4000 LN
General data		
Electrolytic cell	PEM technology	
Drying system	PSA (Pressure Swing Adsorption) / TSA (Thermal Swing Adsorption)	
H2 purity	>99.99999%* ¹ Dewpoint -75°C	>99.99999%* ¹ Dewpoint -80 °C
Outlet pressure	12 bars (174 psi) / 16 bars (232 psi) (optional)	
H2 flow-rate cc/min (Max)	4000	
Dimensions	Standard 19" 5U RACK (48.5 cm deep)	
Net weight (no water in tank)	32 kg	
N2 content	3 ppm	< 1ppm
Communication		
RS485/USB	Standard	
LAN	Optional	
Software functions		
Parallel mode	Ready on board	
Automatic tank refill	Standard	
Water		
Quality	Deionized, ASTM II, <0.1uS	
Supply pressure (min, Max)	0 bars (0 psi), 0.5 bar (7.25 psi)	
Internal tank capacity	1.1 l	
External tank capacity	5, 10 or 24L	
Electrical data		
Power supply connection type	IEC320-C14	
Power supply voltage	240Vac (±10%) 50/60 Hz	
Nominal Power (Max)	1450W	
Fuse (5x20mm)	6,3A (250VAC – T)	
Connections		
Hydrogen outlet	1/8" compression fitting	
Water (inlet, drain)	Quick release push-in fitting	

¹ Referred to O₂- DewPoint < -80°C (< -112°F), Atmospheric Dew Point (ADP)

Ordering codes

Gas Generators

6920.16.400

HG 5U PRO 4000

6920.16.400.1

HG 5U PRO 4000 LN

Consumable

6930.00.091

Deionizer water filter for HG BASIC/PRO and KUBE last series with silver

Alternative:

6930.00.092

Deionizer Water filter for RACK Generators high flow



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