

# HG 5U PRO 2000

## PEM Rack 19" Hydrogen generator

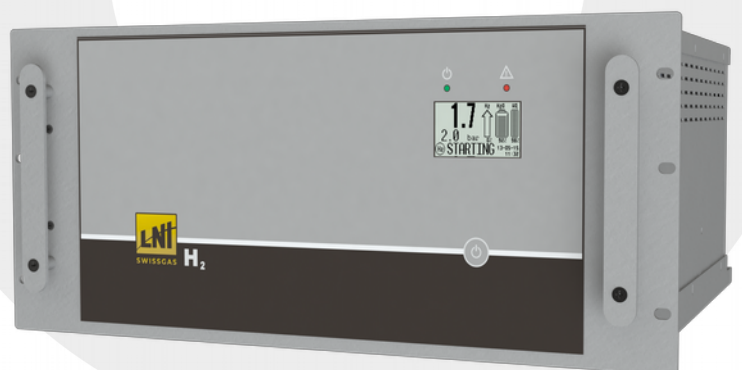
The HydroGen series **HG 5U PRO 2000** is able to generate 2000 cc/min of Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 PSI). The HG 5U PRO includes an electrolytic cell with polymeric membrane (PEM) using distilled water. The two-column PSA drying system with automatic regeneration 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 2000 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	2000	2000 LN
<b>General data</b>		
Electrolytic cell	PEM technology	
Drying system	PSA (Pressure Swing Adsorption) / TSA (Thermal Swing Adsorption)	
H2 purity	>99.99999% *1	
Outlet pressure	12 bars (174 psi) / 16 bars (232 psi) (optional)	
H2 flow-rate cc/min (Max)	2000	
Dimensions	Standard 19" 5U RACK (48.5 cm deep)	
Net weight (no water in tank)	32 kg	
N2 content	3 ppm	< 1ppm
<b>Communication</b>		
RS485/USB	Standard	
LAN	Optional	
<b>Software functions</b>		
Parallel mode	Ready on board	
Automatic tank refill	Standard	
<b>Water</b>		
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	
<b>Electrical data</b>		
Power supply connection type	IEC320-C14	
Power supply voltage	100-240Vac (±10%) 50/60 Hz	
Nominal Power (Max)	600W (850W)	
Fuse (5x20mm)	6,3A (250VAC – T)	
<b>Connections</b>		
Hydrogen outlet	1/8" compression fitting	
Water (inlet, drain)	Quick release push-in fitting	

\*1 Referred to O<sub>2</sub> - DewPoint < -80°C (< -112°F), Atmospheric Dew Point (ADP)

### Ordering codes

#### Gas Generators

6920.16.201 HG 5U PRO 2000  
6920.16.201.1 HG 5U PRO 2000 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*



**LNI Swissgas**  
www.lni-swissgas.eu

LNI Swissgas Srl  
Registered office: Via Sassoferato 1, 20135 Milano MI  
Logistics centre: Via E. Mattei 9, 35038 Torreglia PD