

HG 5U PRO 3300 V4

PEM Rack 19" Hydrogen generator

The HydroGen series **HG 5U PRO 3300 V4** is able to generate 3300 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 3300 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



Models: HG 5U PRO	3300 V4	3300 V4 LN
General data		
Electrolytic cell	PEM technology	
Drying system	PSA (Pressure Swing Adsorption) / TSA (Thermal Swing Adsorption)	
H2 purity	>99.99999% referred to O ₂ , Dew-point ^{*1}	
Outlet pressure	12 bars (174 psi) / 16 bars (232 psi) (optional)	
H2 flow-rate cc/min (Max)	3300	
Dimensions	Standard 19" 5U RACK (56 cm deep)	
Net weight (no water in tank)	29 kg	
N2 content	3 ppm	< 1ppm
Communication		
RS 485	Standard	
RS 232	Standard	
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)	
Supply Flow Rate(min, max)	0.2 l/min, 1.5 l/min	
Internal tank capacity	1.1 l	
Electrical data		
Power supply connection type	IEC320-C14	
Power supply voltage	100-240Vac (±10%) 50/60Hz	
Nominal power (Max)	1200W	
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 < -75°C (< -103°F), Atmospheric Dew Point (ADP)

Ordering codes Gas Generators

6920.16.332
6920.16.332.1

HG 5U PRO 3300 V4
HG 5U PRO 3300 V4 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