

# HG PRO

## PEM Hydrogen generator

The HydroGen series **HG PRO** is able to generate up to 1300 cc/min of Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 psi). The HG PRO includes a new long life multilayer electrolytic cell with polymeric membrane (PEM) using distilled water. No acid or alkaline solutions are used.

The innovative gas drying system (two-column drying PSA system with automatic regeneration) ensures the maximum grade of hydrogen purity, it is completely maintenance-free and allows continuous operation, 24 hours a day.

The on-board CPU automatically check for internal leaks and constantly control the operating parameters to guarantee full safety. Up to 20 units can be connected in parallel using an external control box.

The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.

- New long life multilayer PEM cell
- High flow rate up to 1300 cc/min
- High pressure up to 16 bar (232 psi)
- RS 232/485 and USB standard
- LAN optional
- Auto refill standard
- High purity: 99.99999%
- Dryer with no maintenance
- Safety routine and self monitoring
- Reduced foot print
- High pressure GLS electronically controlled (patented)



*Smart* **Gas** Generators



## Specifications

Models: HG PRO	180	260	350	500	700	900	1100	1300
<b>General data</b>								
Electrolytic cell	Long life Multilayer PEM technology							
Drying system	PSA (Pressure Swing Adsorption)							
H2 purity	>99.99999% *							
Outlet pressure	12 bars (174 psi) / 16 bars (232 psi) (optional)							
H2 flow-rate cc/min	180	260	350	500	700	900	1100	1300
Dimensions	27x33x41(H) cm							
Net weight (no water in tank)	16 kg		19.5 kg		21.5 kg		23 kg	
<b>Communication</b>								
RS232	Standard							
RS485	Standard							
USB	Standard							
LAN	Optional							
<b>Software functions</b>								
Parallel mode	Ready on board							
Automatic tank refill	Standard							
Fill Hydride canister function	Standard							
<b>Water</b>								
Quality Required	Deionized, ASTM II, <0.1uS							
Supply pressure (min, Max)	0.2 bar (1.4 psi), 1 bar (14 psi)							
Supply flow rate (min, Max)	0.2 l/min, 1.5 l/min							
Internal tank capacity	3 L							
External tank capacity	5 or 10 L (optional)							
<b>Electrical data</b>								
Type of connection	IEC 320-C13							
Power supply voltage	100-240 Vac 50/60 Hz							
Installed power (Max)	280W				560W			
Fuse rating (5x20)	4A 250VAC				6.3A 250VAC			
<b>Connections</b>								
Hydrogen outlet	1/8" compression fitting							
Water	Quick release push-in fitting							

\* referred to O2, dew point <-75°C

### Main applications

- Carrier gas for GC and GS-MS
- GC-FID / GC-NPD / GC-FPD / THA
- ICP-MS collision gas
- Refilling metal hydride tanks for use with fuel cells

## Smart Gas Generators



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