

HG ST PRO

PEM Hydrogen generator

The HydroGen series **HG ST PRO** is able to generate up to 600 cc/min Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 PSI).

The **HG ST 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 ST PRO** is the ideal Hydrogen for all GC-FID detectors. The on-board CPU constantly controls the operating parameters to guarantee full safety. Up to 20 units can be connected in parallel mode using an external control box. 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

Main Advantages

- ✓ Quick installation
- ✓ Easy use
- ✓ Hydrogen flow rate up to 600 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
- ✓ High pressure GLS electronically controlled (patented)





Specifications

Models: HG ST PRO	100	160	250	350	600
General data					
Electrolytic cell	PEM technology				
Drying system	PSA (Pressure Swing Adsorption)				
H2 purity	>99.99999% ¹				
Outlet pressure	12 bars (174 psi) / 16 bars (232 psi) (optional)				
H2 flow-rate cc/min (Max)	100	160	250	350	600
Dimensions (W x D x H)	9.5 x 48 x 44 cm				
Net weight (no water in tank)	20 kg				
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)	-0.2 bars (1.4 psi), 0.5 bar (7.25 psi)				
Internal tank capacity	0.3 l				
Electrical data					
Type of connection	IEC 320-C14				
Power supply voltage	100-240 Vac (±10%) 47..63 Hz				
Nominal power (Max)	350W			500W	
Fuse rating (5x 20 mm)	4A (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

6920.06.010

HG ST PRO 100

6920.06.016

HG ST PRO 160

6920.06.025

HG ST PRO 250

6920.06.035

HG ST PRO 350

6920.06.060

HG ST PRO 600

Consumable

6930.00.091

Deionizer water filter



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