

HG ST BASIC

PEM Hydrogen generator with ZeroAir integrated

The HydroGen series **HG ST BASIC** is able to generate up to 350 cc/min of Hydrogen with purity better than 99.9999% and pressure up to 10 bar (145 psi). The HG ST BASIC includes a new long life multilayer electrolytic cell with polymeric membrane (PEM) using distilled water. No acid or alkaline solutions are used.

The innovative drying system ensures the maximum grade of hydrogen purity, protects the GC thanks to its innovative humidity safe guard, HG ST BASIC 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 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

- GC-FID / GC-NPD / GC-FPD
- THA
- Gas sensing

Main Advantages

- ✓ Quick installation
- ✓ Easy use
- ✓ Hydrogen flow rate up to 350 cc/min
- ✓ ZeroAir flow rate up to 2000 cc/min
- ✓ Pressure up to 10 bar (145 psi)
- ✓ Hydrogen purity: 99.9999%
- ✓ THC: < 0.1 ppm
- ✓ 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 BASIC	100	160	250	350
General data				
Electrolytic cell	PEM technology			
Drying system	Static dryer			
H2 purity	>99.9999% ¹			
Outlet pressure	7 bars (100 psi) / 10 bars (145 psi) (optional)			
H2 flow-rate cc/min (Max)	100	160	250	350
Dimensions (WxHxD)	9.5 x 44 x 48 cm			
Net weight (no water in tank)	18 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-C13			
Power supply voltage	100-240 Vac 50/60 Hz			
Installed power (Max)	350W			
Fuse rating (5x 20 mm)	4A 250VAC			
Connections				
Hydrogen outlet	1/8” compression fitting			
Water (inlet, drain)	Quick release push-in fitting			
ZeroAir section (optional)				
Inlet pressure (Max)	8 bars (116 psi)			
THC (Inlet Air)	100ppm			
Outlet flow rate (max)	2000 cc/min			
Outlet pressure (max)	Inlet pressure – 0.5 bars (8 psi) at maximum flow			
THC (ZeroAir Outlet)	<0.1ppm			
Inlet, Outlet ports	1/8" BSPP female			

¹ Referred to O₂ - DewPoint < -25°C

Ordering codes

Gas Generators

6920.05.010

6920.05.016

6920.05.025

6920.05.035

Accessories (optionals)

6930.00.120

Consumable

6930.00.050

HG ST BASIC 100

HG ST BASIC 160

HG ST BASIC 250

HG ST BASIC 350

ZA 2U (catalyst)

De-ionisation Cartridge



LNI GGI srl

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Ingeniería Analítica
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