

HG ST BASIC

PEM Hydrogen generator
with ZeroAir integrated

The HydroGen series **HG ST BASIC** is able to generate up to 600 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 600 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	600
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	600
	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				500W
	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
6920.05.060

HG ST BASIC 100
HG ST BASIC 160
HG ST BASIC 250
HG ST BASIC 350
HG ST BASIC 600

Accessories (optionals)

6930.00.120

ZA 2U (catalyst)

Consumable

6930.00.050

De-ionisation Cartridge



LNI Swissgas

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