



HydroGEN

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: 99.99999%
- 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

HG ST BASIC

PEM Hydrogen generator
with ZeroAir integrated

HG ST BASIC	100	160	250	350
General data				
Electrolytic cell	PEM technology			
Drying system	Static dryer			
H ₂ purity	>99.99999%*			
Outlet pressure	7 bars (100 psi) / 10 bars (145 psi) (optional)			
H ₂ flow-rate cc/min (Max)	100	160	250	350
Dimensions (W x H x D)	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 bar (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)	350 W			
Fuse rating (5x20 mm)	4A - 250 VAC			
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)	100 ppm			
Outlet flow rate (Max)	2000 cc/min			
Outlet pressure (Max)	0.5 bars (8 psi) at maximum flow			
THC (ZeroAir Outlet)	<0.1ppm			
Inlet, Outlet ports	1/8" BSPP female			

* Referred to O₂, dew point <-75°C

Gas Generators	
6920.05.010	HG ST BASIC 100
6920.05.016	HG ST BASIC 160
6920.05.025	HG ST BASIC 250
6920.05.035	HG ST BASIC 350
Accessories (optionals)	
6930.00.120	ZA 2U (catalyst)
Consumable	
6930.00.050	De-ionisation cartridge

Ordering codes