HG ST BASIC

PEM Hydrogen generator

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 checks for internal leaks and 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.

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Main Applications

- GC-FID / GC-NPD / GC-FPD
- THA

Main Advantages

- ✔ Quick installation
- ✓ Easy use
- ✓ Hydrogen flow rate up to 600 cc/min
- Pressure up to 10 bar (145 psi)
- ✓ Hydrogen purity: 99.9999%
- ✓ 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	120	160	250	350	600	
General data						
Electrolytic cell		PEM technology				
Drying system		Static dryer				
H2 purity		>99.9999% *1				
Outlet pressure		10 bars (145 psi)				
H2 flow-rate cc/min (Max)	120	160	250	350	600	
Dimensions (W x D x H)	9.5 x 48 x 44 cm					
Net weight (no water in tank)		19 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 bars (0 psi), 0.5 bar (7.25 psi)				
Supply flow-rate (min, Max)		0.1 l/min, 1.5 l/min				
Internal tank capacity		0.3				
Electrical data						
Type of connection		IEC 320-C14				
Power supply voltage		100-240 Vac (%±10%) 50/60 Hz				
Nominal power (Max)		350	350W		500W	
Fuse rating (5x 20 mm)		4A (250VAC – T)				
Connections						
Hydrogen outlet		1/8"	1/8" compression fitting			
Water (inlet, drain)		Quick release push-in fitting				
*1 Referred to O_2 - DewPoint < -25°C (< -13°	°F), Atmosph			-		

Ordering codes Gas Generators 6920.05.012 6920.05.025 6920.05.035 6920.05.060 Consumable 6930.00.91

HG ST BASIC 120 HG ST BASIC 160 HG ST BASIC 250 HG ST BASIC 350 HG ST BASIC 600

Deionizer water filter



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