HydroGen

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.

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)



Evolution in Gas Generators

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 bar (145 psi)				
H2 flow-rate cc/min (Max)	120	160	250	350	600
Dimensions (W x D x H)	9.5 x 50 x 45 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 bar (0 psi), 0.5 bar (7.25 psi)				
Supply flow-rate (min, Max)	0.1 l/min, 1.5 l/min				
Internal tank capacity	0.6 l				
Electrical data					
Type of connection	IEC 320-C14				
Power supply voltage	100-240 Vac (%±10%) 50/60 Hz				
Nominal power (Max)	350W				500W
Fuse rating (5x 20 mm)	4A (250VAC – T)				
Connections					
Hydrogen outlet	Double ferrule compression fitting, tube 1/8”				
Water (inlet, drain)	Quick release push-in fitting				

*1 Referred to O_2 - DewPoint < -25°C (< -13°F), Atmospheric Dew Point (ADP)

Ordering codes

Gas Generators

6920.05.012	HG ST BASIC 120
6920.05.016	HG ST BASIC 160
6920.05.025	HG ST BASIC 250
6920.05.035	HG ST BASIC 350
6920.05.060	HG ST BASIC 600

Consumable

6930.00.091	Deionizer water filter for HG BASIC/PRO/KUBE last series with silver

LNI Swissgas Srl
Registered office: Via Sassoferrato 1, 20135 Milano MI
Logistics centre: Via E. Mattei 9, 35038 Torreglia PD