

# 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)





## Specifications

Models: HG ST BASIC	120	160	250	350	600
<b>General data</b>					
Electrolytic cell	PEM technology				
Drying system	Static dryer				
H2 purity	>99.9999% <sup>1</sup>				
Outlet pressure	10 bars (145 psi)				
H2 flow-rate cc/min (Max)	120	160	250	350	600
Dimensions (WxHxD)	9.5 x 44 x 48 cm				
Net weight (no water in tank)	19 kg				
<b>Communication</b>					
RS485/USB	Standard				
LAN	Optional				
<b>Software functions</b>					
Parallel mode	Ready on board				
Automatic tank refill	Standard				
<b>Water</b>					
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				
<b>Electrical data</b>					
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				
<b>Connections</b>					
Hydrogen outlet	1/8" compression fitting				
Water (inlet, drain)	Quick release push-in fitting				

<sup>1</sup> Referred to O<sub>2</sub>- DewPoint < -25°C

### 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