

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 |
|-------------------------------|---|-----|-----|------|-----|
| 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) | -0.2 bars (1.4 psi), 0.5 bar (7.25 psi) | | | | |
| Internal tank capacity | 0.3 l | | | | |
| Electrical data | | | | | |
| Type of connection | IEC 320-C14 | | | | |
| Power supply voltage | 100-240 Vac (%±10%) 47..63 Hz | | | | |
| Nominal power (Max) | 350W | | | 500W | |
| Fuse rating (5x 20 mm) | 4A (250VAC – T) | | | | |
| Connections | | | | | |
| Hydrogen outlet | 1/8" compression fitting | | | | |
| Water (inlet, drain) | Quick release push-in fitting | | | | |

¹ Referred to O₂- 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



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