

# HG 5U PRO 2000

## PEM Rack 19" Hydrogen generator

The HydroGen series **HG 5U PRO 2000** is able to generate 2000 cc/min of Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 PSI). The HG 5U PRO includes an electrolytic cell with polymeric membrane (PEM) using distilled water. The two-column PSA drying system with automatic regeneration ensures the maximum grade of hydrogen purity, and is completely maintenance-free. The HG 5U PRO is the ideal Hydrogen for all GC-FID detectors. The on-board CPU constantly controls the operating parameters to guarantee full safety. The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.

### Main Applications

- Carrier gas for GC and GC-MS
- GC-FID / GC-NPD / GC-FPD
- THA
- Gas sensing
- Fuel cell

### Main Advantages

- ✓ Quick installation
- ✓ Easy use
- ✓ Hydrogen flow rate 2000 cc/min
- ✓ Pressure up to 16 bar (232 psi)
- ✓ Hydrogen purity: 99.99999%
- ✓ RS 485 and USB as standard
- ✓ LAN optional
- ✓ Dryer with no maintenance
- ✓ Reduced foot print: 19" rack 5U
- ✓ High pressure GLS electronically controlled (patented)



## Specifications



| Model: HG 5U PRO              | 2000   | 2000 LN |
|-------------------------------|--|---------|
| <b>General data</b>           |  |         |
| Electrolytic cell             | PEM technology   |         |
| Drying system                 | PSA (Pressure Swing Adsorption) / TSA (Thermal Swing Adsorption) |         |
| H2 purity                     | >99.99999% *1  |         |
| Outlet pressure               | 12 bars (174 psi) / 16 bars (232 psi) (optional)                 |         |
| H2 flow-rate cc/min (Max)     | 2000   |         |
| Dimensions                    | Standard 19" 5U RACK (48.5 cm deep)                              |         |
| Net weight (no water in tank) | 32 kg  |         |
| N2 content                    | 3 ppm  | < 1ppm  |
| <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 bars (0 psi), 0.5 bar (7.25 psi)                               |         |
| Internal tank capacity        | 1.1 l  |         |
| External tank capacity        | 5, 10 or 24L   |         |
| <b>Electrical data</b>        |  |         |
| Power supply connection type  | IEC320-C14   |         |
| Power supply voltage          | 100-240Vac (±10%) 50/60 Hz                                       |         |
| Nominal Power (Max)           | 600W (850W)  |         |
| Fuse (5x20mm)                 | 6,3A (250VAC – T)  |         |
| <b>Connections</b>            |  |         |
| Hydrogen outlet               | 1/8" compression fitting   |         |
| Water (inlet, drain)          | Quick release push-in fitting                                    |         |

\*1 Referred to O<sub>2</sub> - DewPoint < -80°C (< -112°F), Atmospheric Dew Point (ADP)

### Ordering codes

#### Gas Generators

6920.16.201 HG 5U PRO 2000  
6920.16.201.1 HG 5U PRO 2000 LN

#### Consumable

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

#### Alternative:

6930.00.092 *Deionizer Water filter for RACK Generators high flow*



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