

# HG 5U PRO 3300

## PEM Rack 19" Hydrogen generator

The HydroGen series **HG 5U PRO** is able to generate 3300 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 control 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 3300 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



Models: HG 5U PRO		3300
<b>General data</b>		
Electrolytic cell	PEM technology	
Drying system	PSA (Pressure Swing Adsorption) / TSA (Thermal Swing Adsorption)	
H2 purity	>99.99999% <sup>1</sup>	
Outlet pressure	12 bars (174 psi) / 16 bars (232 psi) (optional)	
H2 flow-rate cc/min (Max)	3300	
Dimensions	Standard 19" 5U RACK (48 cm deep)	
Net weight (no water in tank)	29 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	1.1 l	
External tank capacity	5,10 or 24L	
<b>Electrical data</b>		
Power supply connection type	Triple 4 pole connector	
Power supply voltage	24VDC	
Power supply current (max)	50A	
<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 < -75°C (< -103°F), Atmospheric Dew Point (ADP)

### Ordering codes

#### Gas Generators

6920.16.330

HG 5U PRO 3300

#### Consumable

6930.00.092

Deionizer water filter for HG RACK generators,  
flow >= 2000



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