

HG RACK 2U PRO (SX 3080)

PEM Rack 19 inch Hydrogen generator
with ZeroAir integrated

The HydroGen series **HG RACK 19 inch 2U PRO** is able to generate up to 350 cc/min Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 PSI). An optional AirGen output can deliver hydrocarbon free pure Air with a flow up to 2000 cc/min. The HG RACK 19 inch 2U 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 RACK 19 inch 2U PRO is the ideal Hydrogen and Air Generator 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

Main Advantages

- ✓ Quick installation
- ✓ Easy use
- ✓ Hydrogen flow rate up to 350 cc/min
- ✓ ZeroAir flow rate up to 2000 cc/min
- ✓ Pressure up to 16 bar (232 psi)
- ✓ Hydrogen purity: 99.99999%
- ✓ THC: < 0.1 ppm
- ✓ RS 485 and USB as standard
- ✓ LAN optional
- ✓ Dryer with no maintenance
- ✓ Reduced foot print: 19 inch rack 2U
- ✓ High pressure GLS electronically controlled (patented)



Specifications



Models: HG 2U PRO	100	160	250	350
General data				
Electrolytic cell	PEM technology			
Drying system	PSA (Pressure Swing Adsorption)			
H2 purity	>99.99999% ¹			
Outlet pressure	12 bars (174 psi) / 16 bars (232 psi) (optional)			
H2 flow-rate cc/min (Max)	100	160	250	350
Dimensions	Standard 19 inch 2U RACK (48 cm deep)			
Net weight (no water in tank)	15.5 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-C13			
Power supply voltage	100-240 Vac 50/60 Hz			
Installed power (Max)	350W			
Fuse rating (5x 20 mm)	4A 250VAC			
Connections				
Hydrogen outlet	1/8" compression fitting			
Water (inlet, drain)	Quick release push-in fitting			
ZeroAir section (optional)				
Inlet pressure (Max)	8 bars (116 psi)			
THC (Inlet Air)	100ppm			
Outlet flow rate (max)	2000 cc/min			
Outlet pressure (max)	Inlet pressure – 0.5 bars (8 psi) at maximum flow			
THC (ZeroAir Outlet)	<0.1ppm			
Inlet, Outlet ports	1/8" BSPP female			

¹ Referred to O₂ - DewPoint < -75°C

Ordering codes

Gas Generators

6920.16.010

HG 2U PRO 100

6920.16.016

HG 2U PRO 160

6920.16.025

HG 2U PRO 250

6920.16.035

HG 2U PRO 350

Accessories (optionals)

6930.00.120

ZA 2U (Catalyst)

Consumable

6930.00.050

De-ionisation Cartridge



LNI GGI srl

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