

**HG RACK 2U
BASIC (SX 3080)**

PEM Rack 19 inch Hydrogen generator with ZeroAir integrated



HydroGEN

The HydroGen series **HG RACK 19** inch **2U BASIC** is able to generate up to 350 cc/min Hydrogen with purity better than 99.99999% and pressure up to 10 bar (145 psi). An optional Air-Gen output can deliver hydrocarbon free pure Air with a flow up to 2000 cc/min.

The **HG RACK 19** inch **2U BASIC** 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 BASIC** 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

- 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 10 bar (145 psi)
- Hydrogen purity: 99.9999%
- THC: <0.1 ppm
- RS 485 and USB as standard
- LAN optional
- Dryer with no maintenance
- Reduced foot print: 19 inch rack 2U
- Smart humidity safe guard (patented)
- High pressure GLS electronically controlled (patented)

Specifications

HG 2U BASIC	100	160	250	350
General data				
Electrolytic cell	PEM technology			
Drying system	Static dryer			
H ₂ purity	>99.9999% ¹			
Outlet pressure	7 bars (100 psi)/10 bars (145 psi) (optional)			
H ₂ flow-rate cc/min (Max)	100	160	250	350
Dimensions	Standard 2U RACK (48 cm deep)			
Net weight (no water in tank)	15 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)	0.1 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)	350 W			
Fuse rating (5 x 20 mm)	4 A 250 VAC			
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)	100 ppm			
Outlet flow rate (Max)	2000 cc/min			
Outlet pressure (Max)	Inlet pressure – 0.5 bars (8 psi) at maximum flow			
THC (ZeroAir Outlet)	<0.1 ppm			
Inlet, Outlet ports	1/8" BSPP female			

¹ Referred to O₂ - DewPoint <-75°C

Gas Generators	
6920.11.010	HG 2U BASIC 100
6920.11.016	HG 2U BASIC 160
6920.11.025	HG 2U BASIC 250
6920.11.030	HG 2U BASIC 300
Accessories (optionals)	
6920.11.010	ZA 2U (catalyst)
Consumable	
6930.00.050	De-ionisation Cartridge

Ordering codes

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