

HG RACK 2U BASIC (SX 3080)

PEM Rack 19 inch Hydrogen generator with ZeroAir integrated

The HydroGen series **HG RACK** 19 inch **2U BASIC** is able to generate up to 350 cc/min Hydrogen with purity better than 99.9999% and pressure up to 10 bar (145 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 BASIC includes an electrolytic cell with polymeric membrane (PEM) using distilled water. The static dryer 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.

- 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)



Smart **Gas** Generators



Specifications

Models: HG 2U BASIC	100	160	250	350
General data				
Electrolytic cell			PEM technology	
Drying system			Static dryer	
H2 purity			>99.9999% ¹	
Outlet pressure	7 bars (100 psi) / 10 bars (145 psi) (optional)			
H2 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)	-0.2 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 < -20°C

Main Applications

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

Smart Gas Generators



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