

HG RACK 2U BASIC (SX 3080)

PEM Rack 19 inch Hydrogen generator

The HydroGen series **HG RACK 19" 2U BASIC** is able to generate up to 600 cc/min of Hydrogen with purity better than 99.9999% and pressure up to 10 bar (145 psi). The **HG 2U 19 inch BASIC** includes a new long life multilayer electrolytic cell with polymeric membrane (PEM) using distilled water. No acid or alkaline solutions are used.

The innovative drying system ensures the maximum grade of hydrogen purity, protects the GC thanks to its innovative humidity safe guard, **HG 19 inch 2U BASIC** is completely maintenance-free and allows continuous operation, 24 hours a day.

The on-board CPU automatically checks for internal leaks and constantly controls the operating parameters to guarantee full safety. Up to 20 units can be connected in parallel mode using an external control box.

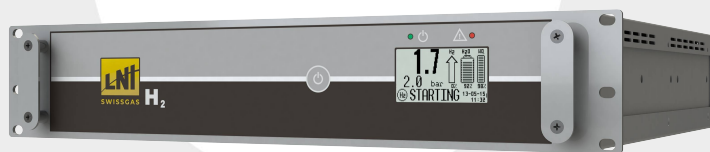
The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.

Main Applications

- GC-FID / GC-NPD / GC-FPD
- THA

Main Advantages

- ✓ Quick installation
- ✓ Easy use
- ✓ Hydrogen flow rate up to 600 cc/min
- ✓ Pressure up to 10 bar (145 psi)
- ✓ Hydrogen purity: 99.9999%
- ✓ 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



Models: HG 2U BASIC		100	160	250	350	600
General data						
	Electrolytic cell	PEM technology				
	Drying system	Static dryer				
	H2 purity	>99.9999% *1				
	Outlet pressure	10 bars (145 psi)				
	H2 flow-rate cc/min (Max)	100	160	250	350	600
	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 bars (0 psi), 0.5 bar (7.25 psi)				
	Internal tank capacity	0.3 l				
Electrical data						
	Type of connection	IEC 320-C14				
	Power supply voltage	100-240 Vac (±10%) 50/60 Hz				
	Nominal power (Max)	350W				500W
	Fuse rating (5x 20 mm)	4A (250VAC – T)				
Connections						
	Hydrogen outlet	1/8” compression fitting				
	Water (inlet, drain)	Quick release push-in fitting				

^{*1} Referred to O₂ - DewPoint < -25°C (<-13°F), Atmospheric Dew Point (ADP)

Ordering codes

Gas Generators

6920.11.010

HG 2U BASIC 100

6920.11.016

HG 2U BASIC 160

6920.11.025

HG 2U BASIC 250

6920.11.035

HG 2U BASIC 350

6920.11.060

HG 2U BASIC 600

Consumable

6930.00.091

Deionizer water filter



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