

# H2 POWER 16L

PEM Hydrogen generator system  
16 l/min

**H2 POWER 16L** is a system able to provide up to 1 m<sup>3</sup>/h of hydrogen.

The hydrogen is produced from four Hydrogen Generators “**6920.16.400**” connected in parallel mode.

**6920.16.400** uses an electrolytic cell with polymeric membrane (PEM) to produce pure hydrogen from distilled water. No acid or alkaline solutions are used.

It is provided with an internal 1.1 litres tank with electronic level control and an automatic fill function “Autorefill” from the 24 l rack 19” format tank included in the system or an external source.

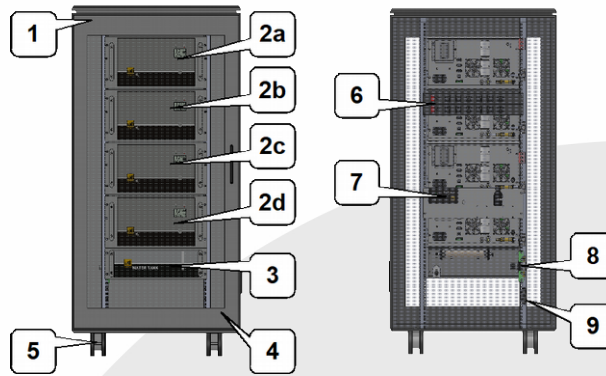
Its innovative gas drying system mixed with TSA/PSA technology is completely maintenance-free and allows continuous operation, 24 hours a day. The exclusive, electronically-controlled, gas/liquid separator automatic checks for internal leaks whenever starting the unit, and a constant control of operating parameters guarantees maximum safety.

The touch-screen LCD interface provides a direct simple control and management of all functions on the unit.

The RS232 and LAN ports of the parallel box controller allow a remote control of the system from anywhere in the world.

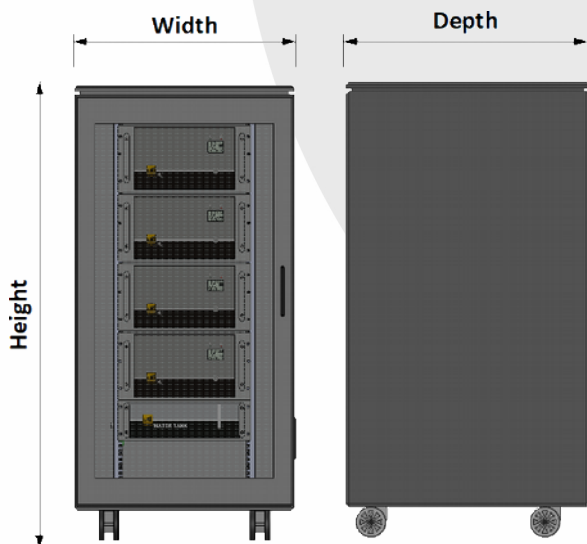


## Overview of the appliance



N.	Qty.	Description
1	1	Closet Rack 33 units
2a	4	Hydrogen generator Rack 5 units (110..320Vac), <b>6920.16.400</b>
2b		
2c		
2d		
3	1	RACK TANK 24L, <b>6920.11.002</b>
4	-	Openable front door
5	4	Wheels
6	-	Power strips (one power strip to supply maximum 2 H2 generator)
7	1	Parallel box controller with LAN, <b>6930.00.025</b>
8	1	H2 Outlet pressure regulator with gauge
9	1	H2 outlet with Plug valve

## Dimensions



<b>Width</b>	60cm	23.62"
<b>Height</b>	170cm	67"
<b>Depth</b>	80cm	31.5"



## Technical specifications

<b>H2 POWER 16L</b>	
<b>Hydrogen principal data</b>	
Electrolytic cell	PEM technology (No acid or alkaline solutions are used)
H2 purity	>99.99999% <sup>*1</sup> , DewPoint < -75°C
Outlet pressure (max)	12Bar (optional 16 Bar)
H2 flow rate (max)	0.96 Nm <sup>3</sup> /h (4 x 4000cc/min)
Drying system	Maintenance-free
<b>I/O communication</b>	
Touch-screen LCD 128x64 pixel	
Output pressure gauge	Standard
RS232	
LAN	
<b>Software/safety functions</b>	
Internal H2 sensor	Optional
Cell voltage control	
Automatic fault detection	
Power supply temperature detection	
Automatic safety de-pressurization	Standard
Water level control	
Automatic tank refill	
Fill canister function	
<b>Connections</b>	
H2 outlet port	1/8" compression tube fitting
Water inlet port	1/4" tube, quick release push to lock fitting
<b>Water</b>	
Quality	Deionized, ASTM II, <0.1uS
Generator internal tank capacity	4.4 l (4 x 1.1 l)
External tank capacity (for refilling)	24 l
Consumption rate	1l/hour
<b>Electrical data</b>	
Power supply connection type	2 x Sockets SHUKO 16A
Power supply voltage	Single phase 230VAC, 50/60 Hz
Power supply current (max)	30A
Energy required	5.8kWh/m <sup>3</sup>
<b>General data</b>	
Operating temperature	5-30°C (41-86°F)
Storage temperature	1-40°C (33.8-104°F)
Operating humidity (non-condensing)	80% at 25°C (77°F)
Ingress protection rating	IP20
Pollution degree rating	2 (with no aromatic compounds)
Cabinet ventilation	6 x 135 Nm <sup>3</sup> /h
Dimensions (W/D/H)	60 * 80 * 170 cm
Net weight (water tanks empty)	<180kg
Altitude	<2000m

<sup>\*1</sup> Referred to O2



**LNI Swissgas**  
www.lni-swissgas.eu