

# H2 POWER 10L

PEM Hydrogen generator system  
10 l/min

**H2 POWER 10L** is a system able to provide up to 1Nm<sup>3</sup>/h of hydrogen.

The hydrogen is produced from three Hydrogen Generators “6920.16.330” connected in parallel mode.

**6920.16.330** 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 an external source.

Its innovative gas drying system 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.

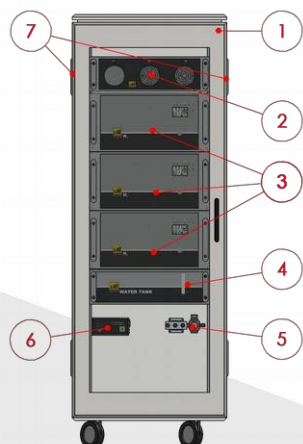
The touch-screen LCD interface provides a direct simple control and management of all functions on the unit.

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





## Overview of the appliance



H2 POWER 10L consist of:

N.	Qty.	Description
1	1	Closet Rack 42 unit
2	1	Power supply 3 units, <b>6920.30.002</b>
3	3	Hydrogen Generator 5 units, <b>6920.16.330</b>
4	1	Rack tank 24L 3 units (for Generators refilling) <b>6920.11.002</b>
5	1	Pipeline kit for cascading, <b>6930.00.030</b>
6	1	Master Box controller with LAN, <b>6930.00.025</b>
7	2	Cooling fans

## Dimensions



<b>Width</b>	59cm	23.22"
<b>Height</b>	164cm	64.56"
<b>Depth</b>	81cm	31.89"



**LNI Swissgas**  
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## Technical specifications

H2 POWER 10L	
<b>Hydrogen principal data</b>	
Electrolytic cell	PEM technology (No acid or alkaline solutions are used)
H2 purity	>99.99999%. Referred to O <sub>2</sub> , DewPoint < -75°C
Outlet pressure (max)	12Bar (optional 16 Bar)
H2 flow rate (max)	0.6 Nm <sup>3</sup> /h (3 x 3300cc/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	3.3 l (3 x 1.1 l)
External tank capacity (for refilling)	10 l
Consumption rate	1l/hour
<b>Electrical data</b>	
Power supply connection type	3 x wires 4mm <sup>3</sup> (2 wire+ground)
Power supply voltage	Single phase 230VAC, 50/60 Hz
Power supply current (max)	30A
Energy required	5.8kWh/Nm <sup>3</sup> (end life 6.7kWh/Nm <sup>3</sup> )
<b>General data</b>	
Operating temperature	5-35°C (41-95°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	2 x 135 Nm <sup>3</sup> /h controlled with thermostat
Dimensions (w * h * d)	59 * 164 * 81 cm
Net weight (water tanks empty)	<180kg
Altitude	<2000m
Certifications	CE, ISO9001



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