

H2 POWER 10L

PEM Hydrogen generator system
10 l/min

H2 POWER 10L is a system able to provide up to 1Nm³/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.

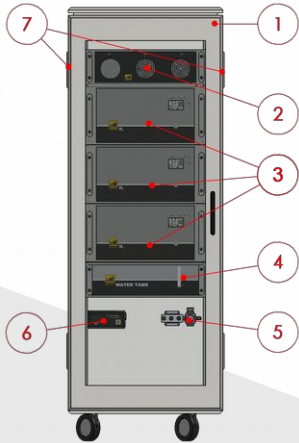
The touch-screen LCD interface provides a direct simple control and management of all functions on the unit.

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 28 unit |
| 2 | 1 | Power supply 3 units, 6920.30.002 |
| 3 | 3 | Hydrogen Generator 5 units, 6920.16.330 |
| 4 | 1 | Rack tank 24L 3 units (for Generators refilling) 6920.11.002 |
| 5 | 1 | Pipeline kit for cascading, 6930.00.030 |
| 6 | 1 | Master Box controller with LAN, 6930.00.025 |
| 7 | 2 | Cooling fans |

Dimensions



| | | |
|---------------|-------|--------|
| Width | 59cm | 23.22" |
| Height | 164cm | 64.56" |
| Depth | 81cm | 31.89" |



LNI Swissgas
www.lni-swissgas.eu

Registered office: Via Sassoferato 1, 20135 Milano MI
Logistics centre: Via E. Mattei 9, 35038 Torreglia PD



Technical specifications

| H2 POWER 10L | |
|--|---|
| Hydrogen principal data | |
| Electrolytic cell | PEM technology (No acid or alkaline solutions are used) |
| H2 purity | >99.99999%. Referred to O ₂ , DewPoint < -75°C |
| Outlet pressure (max) | 12Bar (optional 16 Bar) |
| H2 flow rate (max) | 1 Nm ³ /h (3 x 3300cc/min) |
| Drying system | Maintenance-free |
| I/O communication | |
| Touch-screen LCD 128x64 pixel | |
| Output pressure gauge | Standard |
| RS232 | |
| LAN | |
| Software/safety functions | |
| 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 | |
| Connections | |
| H2 outlet port | 1/8" compression tube fitting |
| Water inlet port | 1/4" tube, quick release push to lock fitting |
| Water | |
| 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 |
| Electrical data | |
| Power supply connection type | 3 x wires 4mm ³ (2 wire+ground) |
| Power supply voltage | Single phase 230VAC, 50/60 Hz |
| Power supply current (max) | 30A |
| Energy required | 5.8kWh/Nm ³ (end life 6.7kWh/Nm ³) |
| General data | |
| 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 ³ /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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