MicroPROGEL
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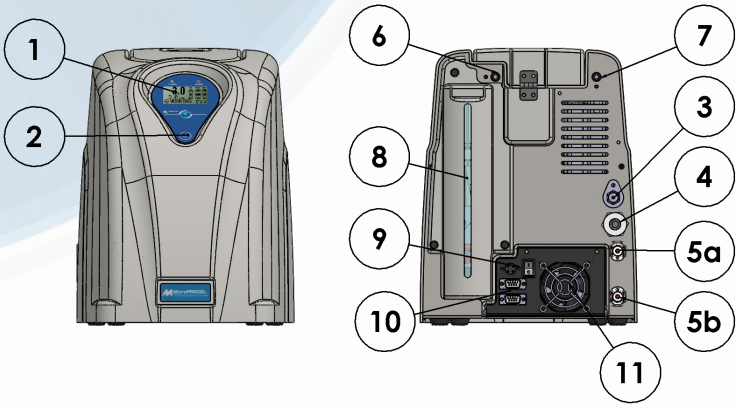
Noblegen

TÜV PROFI CERT ISO 9001 + 14001 73 100/104 4715

LC series

H2 GENERATOR DESK

The LC series generators use an electrolytic cell with polymeric membrane (PEM) to produce pure hydrogen.
These series features a desiccant cartridge that needs to be replaced or refilled when saturated.
The exclusive, electronically-controlled gas/liquid separator, automatic checking for internal leaks whenever starting the unit, and constant control of operating parameters, guarantee maximum safety.
Up to 20 units can be connected in parallel.
The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.



1	Touch-screen LCD 128x64 pixel
2	START/STOP button
3	Hydrogen Outlet
4	Hydrogen purge
5a	Water connector for filter
5b	Water connector for filter and for emptying the tank
6	Hydrogen vent
7	Oxygen vent
8	Desiccant cartridge compartment
9	Power connection and switch
10	I/O connector: RS232 – RS485 (Optional)
11	Cooling fan air intake

Main Applications

- ICP-MS collision gas
- Flame ionization detector feed gas (FID)
- Refilling metal hydride tanks for use with fuel cells

Main Features

- **Available Flow-rates:** up to 260 cc/min
- **Outlet pressure:** up to 7 bars
- **Hydrogen purity:** >99.9999%
- **Drying system:** Refillable molecular sieve column
- **Internal water tank:** 1.2 litres, with electronic level control
- **Dimensions:** 24x33x31(H)
- **Weight:** 6.5 kg
- **Certification:** CE, ISO9001

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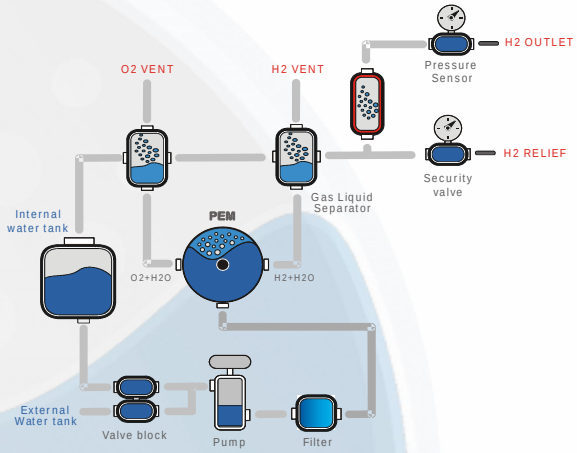
Principle diagram



Hydrogen is produced from distilled water using a polymeric membrane (PEM). No acid or alkaline solutions are used.
The LC series features a desiccant cartridge that needs to be replaced or refilled when saturated.

Models	LC.H2.100	LC.H2.140	LC.H2.180	LC.H2.260
General data				
Electrolytic cell	PEM technology			
Drying system	External column dryer			
H2 purity	>99.9999% [1]			
Outlet pressure	7 bars (100 psi)			
H2 flow-rate cc/min (Max)	100	140	180	260
Dimensions	24x33x31(H) cm			
Net weight (no water in tank)	6.5 kg			
Communication				
RS232	X	X	X	X
RS485	Optional			
Software functions				
Parallel mode	Optional			
Automatic tank refill	Not available			
Water				
Quality	Deionized, ASTM II, <0.1uS			
Internal tank capacity	1.2 l			
Electrical data				
Type of connection	IEC 320-C13 (DESKTOP ADAPTER)			
Power supply voltage	100-240 Vac 50/60 Hz			
Installed power (Max)	120W			160W
Connections				
Hydrogen outlet	1/8” compression fitting			
Water	Quick release push-in fitting			

1 Referred to O_2, dew point < -55°C

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