

HYDROGEN GAS GENERATOR



The LC-H2 hydrogen generators use the latest polymer electrolyte membrane (PEM) Technology to produce pure hydrogen.

The LC-H2 series use a desiccant cartridge which can be refill or replaced by a new one.

The LC-H2 series generators are ideal for:

- Ionization flame detector (FID)
- Small fuel-cell cylinder refills

Benefits and Savings

■ Increased laboratory efficiency

A constant, uninterrupted gas supply of guaranteed purity eliminates interruptions of analyses to change cylinders and reduces the amount of instrument re-calibrations required.

■ Improved safety

The very limited internal volume (less than 50 ml) allows safe use of the gas generators where the use of cylinders is risky or prohibited.

The application of tested safety technologies stops the unit in the event of leaks or malfunctions

■ Simple installation

Gas generators can be installed in the laboratory, on or under a bench, eliminating the need for long gas lines from cylinders secured elsewhere.

Standard Features

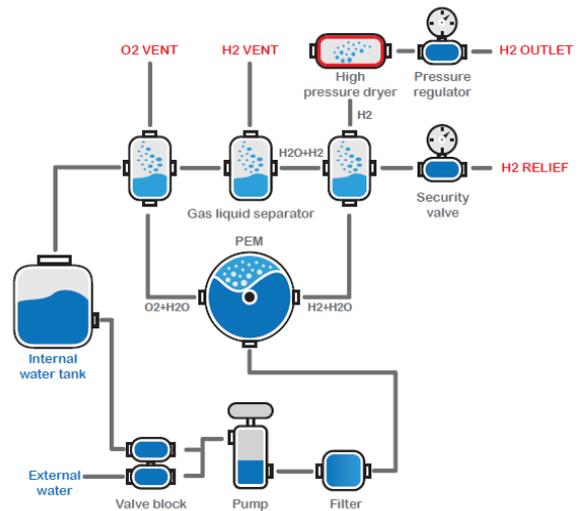
- LC-H2 models available : 100,140, 180 cc/min
- LC-H2 Purity > 99.995%
- Pressure up to 7 bar
- Patented gas/water separator electronically controlled
- LCD touch screen : real time outlet pressure, water quality, water level, auto diagnostics with alarms
- Water tank protected and filtered
- Communication : RS 232 in standard and RS485 in option

Hydrogen is produced using distilled or deionised water from hydrolysis, through a polymer membrane.

Electrolytic dissociation separates the water into its two main components: hydrogen ready for analytical use, and oxygen that is released into the air.

No acid nor alkaline solutions are used in the hydrogen generation cycle.

LC-H2 Series use a desiccant cartridge which needs to be refilled or replaced when saturated



Technical Specifications

Models	LC.H2.100	LC.H2.140	LC.H2.180
General information			
Electrolysis cell	PEM Technology		
Dryer type	replaceable desiccant column		
H2 purity	>99.995%		
Outlet pressure	7 Bar(101psi)		
H2 flow rate cc/min (max)	100	140	180
Communication			
RS232	X	X	X
RS485	Optional		
Special function			
Automatic filling of water tank	Optional	Optional	X
Fill canister function	Optional	Optional	X
Water			
Quality	Deionized, ASTM II, <0,1uS		
Supply Pressure (Min)	0,1 Bar (1,4 psi)		
Supply Pressure (Max)	1 Bar (14 psi)		
Supply Flow Rate (min)	0,2 lt/min		
Supply Flow Rate (max)	1,5 lt/min		
General data			
Connection type	IC320-C13		
Supply voltage	90-240Vac 50/60Hz		
Installation Power (max)	80W	100W	120W
Dimensions	25x30x32(H) cm		
Net weight(water tank empty)	10Kg		
Connections			
Hydrogen Outlet	1/8" Compression Fitting		
Water	Quick Release Push in Fitting		
Ambient data			
Temperature	5-35°C (41-95°F)		
Humidity (max, non condensing)	80% a 25°C (77°F)		
Noise	<55dB(A)		

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