

HG KUBE

PEM Hydrogen generator

The **HG KUBE** is able to generate up to 260 cc/min of Hydrogen with purity better than 99.9996% and pressure up to 9 bar (130 psi). The HG KUBE includes a cell with polymeric membrane (PEM) using distilled water. No acid or alkaline solutions are involved.

The innovative static drying system ensures the maximum grade of hydrogen purity, protects the GC thanks to its unique humidity safe guard, it is completely maintenance-free and allows continuous operation, 24 hours a day.

The on-board CPU automatically checks for internal leaks and constantly control the operating parameters to guarantee full safety. Up to 20 units can be connected in parallel mode using an external control box. The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.

Main Applications

- GC-FID
- GC-NPD
- GC-FPD
- GC-PFPD
- THA
- Gas sensing

Main advantages

- ✓ PEM cell technology
- ✓ Flow rate up to 260 cc/min
- ✓ Pressure up to 9 bar (130psi)
- ✓ RS-232 and RS-485 ports standard
- ✓ Purity: 99.9996%
- ✓ Static dryer no maintenance
- ✓ Safety routine and self monitoring
- ✓ Reduced foot print
- ✓ Smart humidity safe guard (patented)
- ✓ High pressure GLS electronically controlled (patented)





Specifications

Model: HG KUBE	120	260
General data		
Electrolytic cell	PEM technology	
Drying system	Static dryer	
H2 purity	>99.9996%	
Outlet pressure	9 bars (130 psi)	
H2 flow-rate (Max)	120 cc/min	260 cc/min
Dimensions (W x D x H)	25 x 30 x 35 cm	
Net weight (no water in tank)	13 kg	
Communication		
RS232	Standard	
RS485	Standard	
Software functions		
Parallel mode	Optional	
Water		
Quality Required	Deionized, ASTM II, <0.1uS	
Supply pressure (min, Max)	0.1 bar (1.45 psi), 0.5 bar (7.25 psi)	
Supply flow-rate (min, Max)	0.2 l/min, 1.5 l/min	
Internal tank capacity	1.2 L	
Electrical data		
Type of connection	IEC 320-C14 (desktop adapter)	
Power supply voltage	100-240 Vac (±10%) 50/60 Hz	
Nominal power (Max)	160W	
Connections		
Hydrogen outlet	1/8" compression fitting	
Water	Quick release push-in fitting	
Operating/storage conditions		
Working Temperature	5-40°C (41-104°F)*1	
Storage Temperature	1-50°C (34-122°F)	
Humidity (max, non condensing)	70%	
Noise	< 35dB(A)	
IP rating	IP20	
Pollution degree rating	2 (with no aromatic compounds)	
Altitude	< 2000m	

*1 with temperature > 35°C (> 95°F) the H2 purity could be less

Ordering codes

Gas Generators

6920.20.012

HG KUBE 120

6920.20.026

HG KUBE 260

Accessories (optionals)

6930.00.200

Desiccant column

Consumable

6930.00.091

Deionizer water filter



LNI Swissgas

www.lni-swissgas.eu

LNI Swissgas Srl

Registered office: Via Sassoferato 1, 20135 Milano MI

Logistics centre: Via E. Mattei 9, 35038 Torreglia PD