

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 check 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 port 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		25x30x35(H) cm			
Net weight (no water in tank)		10.5 kg			
Communication					
RS232		Standard			
RS485		Optional			
Software functions					
Parallel mode		Optional			
Water					
Quality Required		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)		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)**			
Storage Temperature		1-50°C (34-122°F)			
Humidity (max, non condensing)		70%			
Noise		< 25dB(A)			
IP rating		IP20			
Pollution degree rating		2 (with no aromatic compounds)			
Altitude		< 2000m			

** with temperature > 35°C the H2 purity could be less

Ordering codes

Gas Generators

6920.20.012

6920.20.026

Accessories (optionals)

6930.00.200

Consumable

6930.00.050

HG KUBE 120

HG KUBE 260

Desiccant column

Deionisation Cartridge



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