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 it's 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.

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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	Static dryer	
H2 purity	>99.9996%		
Outlet pressure	9 bars (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	Opti	Optional	
Water			
Quality Required	Deionized, ASTM II, <0.1uS		
Supply pressure (min, Max)	0.1 bar (1.45 psi),	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 (de	IEC 320-C14 (desktop adapter)	
Power supply voltage	100-240 Vac (±	100-240 Vac (±10%) 50/60 Hz	
Nominal power (Max)	160	160W	
Connections			
Hydrogen outlet	1/8" compre	1/8" compression fitting	
Water	Quick release	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

