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H<sub>2</sub>  
N  
A

# 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 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		260
<b>General data</b>		
Electrolytic cell		PEM technology
Drying system		Static dryer
H2 purity		>99.9996%
Outlet pressure		9 bars (130 psi)
H2 flow-rate (Max)		260 cc/min
Dimensions		25x30x35(H) cm
Net weight (no water in tank)		10.5 kg
<b>Communication</b>		
	RS232	Standard
	RS485	Optional
<b>Software functions</b>		
	Parallel mode	Optional
<b>Water</b>		
	Quality Required	Deionized, ASTM II, <0.1uS
	Internal tank capacity	1.2 L
<b>Electrical data</b>		
	Type of connection	IEC 320-C13 (desktop adapter)
	Power supply voltage	100-240 Vac 50/60 Hz
	Installed power (Max)	160W
<b>Connections</b>		
	Hydrogen outlet	1/8" compression fitting
	Water	Quick release push-in fitting
<b>Operating/storage conditions</b>		
	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

6920.20.026

HG KUBE 260

#### Accessories (optionals)

6930.00.200

Desiccant column

#### Consumable

6930.00.050

Deionisation Cartridge



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