



INSTRUMENTS
ANALYTICAL SOLUTIONS



HG KUBE

PEM Hydrogen generator

HydroGEN

The **HG KUBE** is able to generate up to 260 cc/min of Hydrogen with purity better than 99.9996% and pressure up to 7 bar (101 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 7 bar (101 psi)
- 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

HG KUBE PEM Hydrogen generator

HG KUBE	260
General data	
Electrolytic cell	PEM technology
Drying system	Static dryer
H ₂ purity	>99.9996%
Outlet pressure	7 bars (101 psi)
H ₂ flow-rate (Max)	260 cc/min
Dimensions	25 x 30 x 35(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, <0.1µS
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)	160 W
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	<25 dB(A)
IP rating	IP20
Pollution degree rating	2 (with no aromatic compounds)
Altitude	<2000 m

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

Gas Generators	
6920.20.026	HG KUBE 260
Accessories (optionals)	
6930.00.200	Desiccant column
Consumable	
6930.00.050	Deionisation cartridge

Ordering codes

