

iHG series: Hydrogen Generators

Safe, inexpensive gas generation



Features:

- 99.9995% Hydrogen
- Constant purity
- Easy installation
- Sophisticated control and safety system

Applications

- Carrier gas applications
- GC, GC-FID, GC-FPD, GC-NPD, GC-TCD

Hydrogen generators from cmc Instruments are designed with safety and longevity in mind. The HG series uses an electrochemical cell with solid polymer electrolyte to provide ultra high purity hydrogen for a variety of applications.

Deionised water is the only liquid in the unit. The electrolysis produces hydrogen and oxygen ions. The positively charged hydrogen ions are transported across the membrane. The ions then recombine to form molecular hydrogen gas which is then dried and made available to the output.

Low cost of ownership and minimal maintenance is the result of careful electrical and mechanical design. Maintenance consists of replacement/regeneration of the dessicant and replacement of the deioniser bag.

The HG series is available in 4 standard capacities with max flow rates of 200 to 1200ml/min. Each model is available as a desktop or 19" rack version.

Customise your cmc Instruments generator with the features you want. Failure indication and alarm from gas, water and power supply are all options together with automatic switchover to

cylinders in case of system failure. Different fittings and outlets are available to make the hydrogen generator instantly compatible with your supply and destination equipment.

Designed and manufactured in Germany these products represent quality at an affordable price. Perhaps more importantly, the excellent reliability and almost zero downtime that can be expected over many years brings with it peace of mind.

Specification

Electrical requirements:
230V, 50Hz (110V option)

Display: LCD, output pressure and
hydrogen flow

Outlet pressure: 0-6 bar

Deionised water quality:
< 2µS/cm

Ambient temperature: +5 to 35°C

Outlet port: 1/8" OD

Power consumption (max)

HG 200: 250W

HG 300: 350W

HG 600: 750W

HG 1200: 1250W

Ordering Information

Part no.	Description	
HG 200	Hydrogen generator, desktop version LCD display, 220V	Max flow, 200ml/min
HG 300		Max air flow, 300ml/min
HG 600		Max air flow, 600ml/min
HG 1200		Max air flow, 1200ml/min
Options		
	Failure indication and alarm from gas and water supply	
	Failure indication and alarm from power supply	
	Failure indication and alarm from gas, water and power supply	
Spares		
HPSA 020	Deioniser bag	
	Dessicant module	

All models also available as 19" rack configuration

Dimensions and weights

Dimensions (w x h x d) mm:

HG 200: 310 x 450 x 420

HG 300: 310 x 450 x 420

HG 600: 450 x 450 x 550

HG 1200: 450 x 450 x 550

Weights net:

HG 200: 45 kg

HG 300: 50 kg

HG 600: 55 kg

HG 1200: 60 kg