

FAST FACTS

ChromGas® Hydrogen Generators from Parker



ChromGas® Hydrogen Generators

- Selectable delivery pressure: 0–100psig.
- High hydrogen purity—99.9995%—for better chromatography.
- No high-pressure cylinders—greater convenience and improved lab safety.

Hydrogen On Demand, Up to 500 cc/minute

ChromGas® fuel grade purity hydrogen generators are hazard-free alternatives to high pressure gas cylinders. They can be used with any instrumentation requiring fuel grade hydrogen — anywhere a standard electrical supply is available. Deionized water is all that is required to generate hydrogen for weeks of continuous operation.

With an output capacity of up to 500 cc/minute, one generator can supply 99.9995% pure carrier gas or fuel gas to multiple chromatographs. Based on cylinder gas savings alone, a ChromGas® hydrogen generator will pay for itself in less than one year.

Certified Safety

ChromGas® hydrogen generators use a proton exchange membrane to produce fuel grade hydrogen on demand. Only 100 mL is stored in the system at any time, at low pressure. A built-in sensing circuit shuts the generator down if a hydrogen leak is detected. And if contaminated water or a low water level is detected, the system activates a warning light and shuts off the generator — avoiding damage to the electrolytic cell.

ChromGas® hydrogen generators meet the strict safety guidelines of the National Fire Protection Agency (NFPA) and the regulations of the Occupational Safety and Health Association (OSHA - 1910.103). Most important, they are the only hydrogen generators certified for laboratory use by CSA, UL and IEC 1010.

99.9995% Pure Hydrogen

ChromGas® generators' proprietary replaceable purification cartridge provides fuel grade hydrogen (99.9995%) for fuel gas usage and ensures consistent, reproducible results. The exclusive proton exchange membrane is complemented with a scrubber to ensure 99.9995% pure hydrogen. That's why ChromGas® hydrogen generators are recommended by GC manufacturers.

Proven Technology

ChromGas® generators' proton exchange electrolyzer eliminates the use of liquid electrolytes. Proven in more than 40,000 GC installations worldwide, ChromGas® generators are the most reliable hydrogen generators on the market. Maintenance requires only a few moments per year — no inconvenient, extended downtime. Simply change the deionizer bag every six months and the purification cartridge whenever it turns beige.

Proton Exchange Membrane

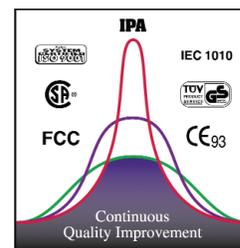
Electrolyzers are used extensively in US Navy submarines and NASA supplemental fuel systems. This reliable, high quality hydrogen generation technology is also being considered to fuel the ultra low emission and zero emission vehicles (ULEV/ZEV) of the future.

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Parker ChromGas® Hydrogen Generators

ChromGas® Hydrogen Generators: 9000 Series

Model	9090	9150	9200	9400
Purity	99.9995%	99.9995%	99.9995%	99.9995%
Flow Rate	90 cc/minute	160 cc/minute	250 cc/minute	500 cc/minute
Outlet Port	1/8" compression	1/8" compression	1/8" compression	1/8" compression
Electrical	117 Vac/234Vac	117 Vac/234Vac	117Vac/234 Vac	117 Vac/234 Vac
Pressure Control	5 to 20 psig ±0.5% 20 to 90 psig ±0.2%	5 to 20 psig ±0.5% 20 to 90 psig ±0.2%	5 to 20 psig ±0.5% 20 to 90 psig ±0.2%	5 to 20 psig ±0.5% 20 to 90 psig ±0.2%
Delivery Pressure	2 to 30 psig ±3% 30 to 90 psig ±2%	2 to 30 psig ±3% 30 to 90 psig ±2%	2 to 30 psig ±3% 30 to 90 psig ±2%	2 to 30 psig ±3% 30 to 90 psig ±2%
Shipping Weight	40 lb (18 kg) dry			
Dimensions	13"H x 15"W x 14"D (33cm x 38cm x 36cm)	13"H x 15"W x 14"D (33cm x 38cm x 36cm)	13"H x 15"W x 14"D (33cm x 38cm x 36cm)	13"H x 15"W x 14"D (33cm x 38cm x 36cm)



Meet OSHA and NFPA Requirements

All Parker hydrogen generators meet NFPA requirements and OSHA 1910.103 regulations governing the storage of hydrogen.

Description	Capacity	qty.	cat.#
ChromGas® Hydrogen Generator A9090	90cc/min.	ea.	22033
ChromGas® Hydrogen Generator A9150	160cc/min.	ea.	22034
ChromGas® Hydrogen Generator B9200	250cc/min.	ea.	22035
ChromGas® Hydrogen Generator B9400	500cc/min.	ea.	22036
Replacement Components for ChromGas® Hydrogen Generators (for all models listed above)			
Replacement Deionizer Bag		ea.	21670
Replacement Desiccant Cartridge		ea.	21671

International Power Cord Sets

Just add the proper suffix to the catalog number for the gas generator you are ordering.

Location	qty.	cat.# suffix
United Kingdom (230VAC, 50/50Hz)	ea.	-550
European (230VAC, 50/60Hz)	ea.	-551
IEC Connector Only (230VAC, 50/60Hz)	ea.	-552
Japanese (200VAC, 50/60Hz)	ea.	-556
Japanese for Hydrogen (100VAC, 50/60Hz)	ea.	-554

ordering note

For international orders, please add the appropriate power cord suffix from the table.

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