

Ultra High Purity Hydrogen Generators



- Hydrogen on demand, Up to 1200 cc/min.
- Certified safety
- All models at least 99.9995% pure
- SPE Technology eliminates caustic solution
- No more changing cylinders

ChromGas ultra high purity (UHP) hydrogen generators from Parker are designed as hazard-free alternatives to high pressure gas cylinders. They can be used with any instrumentation requiring high purity 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 1200 cc/minute, one generator can now supply 99.99999% pure carrier gas to four to six GC's, and fuel gas to ten to twelve FID's. Based on cylinder gas savings alone, a ChromGas Parker hydrogen generator pays for itself in less than a year.

Certified Safety

Parker's hydrogen generators use an exclusive Proton Exchange Membrane to produce UHP hydrogen on demand. Only 100mL is stored in the system at any time and at low pressure. A built-in sensing circuit shuts the generator down if a hydrogen leak is detected.

That's why Parker 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 importantly, they are the only hydrogen generators certified for laboratory use by CSA, UL and IEC 1010.

99.99999% Pure

The exclusive proton exchange membrane has been complemented with a scrubber to generate 99.99999% pure hydrogen. That's why Parker hydrogen generators are recommended by GC and column manufacturers.

Parker's ChromGas proprietary replaceable desiccant cartridge provides fuel grade purity 99.9995% and ensures consistent reproducible results. The model A9800 comes standard with a palladium purifier module to reach levels of gas purity up to 99.99999%.

Proven Technology

Parker's exclusive Proton Exchange electrolyte Electrolyzer eliminates the use of liquid electrolytes with hydrogen generators.

Proven in over 20,000 GC installations worldwide, Parker's generators are the most reliable hydrogen generators on the market. Maintenance requires only a few minutes per year – no inconvenient, extended downtime. Simply change the deionizer bag every six months and the desiccant cartridge whenever it turns beige. And if contaminated water or low water level is detected, the system activates a warning light and shuts off the generator – avoiding damage to the electrolyte cell.

Specifications:

Flow rates: Model A9090: 90 cc/min.
 Model B9150: 160 cc/min.
 Model B9200: 250 cc/min.
 Model B9400: 500 cc/min.
 Model A9800: 1,200 cc/min.

Purity: 99.99999% Purity (A9800);
 99.9995% (all others)

Oxygen < 1ppm
 Moisture < 1ppm
 Hydrocarbons/halocarbons, 1ppb

Delivery pressure: 2-30 psi ±3%, 30-100 psi ±2%

Pressure control: 5-20 psi ±0.5%, 20-100 psi ±0.2%

DI Water reservoir: Refill as needed

Deionizer bags: Replace every six months or whenever the "change water" indicator is on. Two required.

Desiccant cartridge: Replace when it turns from blue to light grey or beige

Dimensions: 14.75" (H) x 13" (W) x 14" (D)
 (all except A9800)
 14.5" (H) x 13" (W) x 17" (D), (A9800)

Weight: 40 lbs. dry (18 kg)

Safety: CE Certified

Warranty: 1 year

Hydrogen Generators

Cat. No.	Description
A9090	Hydrogen generator 90 cc/min.
B9150	Hydrogen generator 160 cc/min.
B9200	Hydrogen generator 250 cc/min.
B9400	Hydrogen generator 500 cc/min.
A9800	Hydrogen generator 1200 cc/min.

Replacement Components

1647727	Desiccant cartridge*
7601132	Replacement deionizer bag, 2/pk

*Replacement cartridge for A9090, B9100, B9200, B9400.

Hydrolysis of Water Followed by Membrane Separation of Hydrogen from Oxygen

