

# Parker Balston® Hydrogen Generators

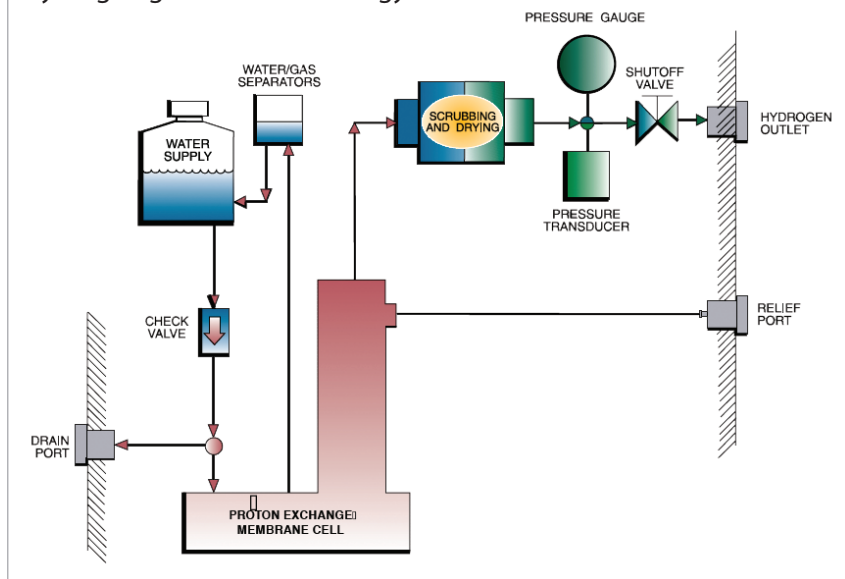
Hydrogen generators are a safe, cost-effective alternative to high-pressure gas cylinders and can supply fuel-grade gas or ultra high-purity carrier gas. Hydrogen generators offer enhanced safety and convenience and are very cost-effective. Based on cylinder gas savings alone, a hydrogen generator pays for itself in only 1 or 2 years. Parker Balston® hydrogen generators are engineered for safety and feature a built-in sensing circuit which shuts down the generator automatically if a hydrogen leak is detected. These generators are also designed for performance and convenience. They include an exclusive water management system and control circuitry to maximize uptime, and also feature indicator lighting, which allows at-a-glance status checks and water level monitoring.

Parker Balston® hydrogen generators are reliable and easy to use and maintain. De-ionized water is all that is required to generate hydrogen for weeks of continuous operation. Each generator has an output capacity of up to 510 cc/minute—enough to supply 99.9995% pure hydrogen for several FIDs. The new Proton Exchange Membrane (PEM) cell eliminates the need for liquid electrolytes. Maintenance requires only a few moments a year—no inconvenient, extended downtime. Simply change the filters every 6 months, the hydration pump biannually, and the desiccant cartridge whenever it turns from beige to clear.

These units are compact, requiring only one square foot of bench space, and come with a set of universal power adaptors for U.S., European and Asian plug types. Produced and supported by an ISO 9001 registered organization, Parker Balston® hydrogen generators are the first built to meet the toughest laboratory standards in the world: CSA, UL, cUL, and CE Mark.



## Hydrogen generator technology



- Reliably generate 99.9995% pure hydrogen for better chromatography.
- Cost-effective, convenient, and safe alternative to high-pressure gas cylinders.
- Proton Exchange Membrane (PEM) cell eliminates the need for liquid electrolytes.
- Quick and easy to service and maintain; unique display lighting changes color for easy status checks and water level indication!

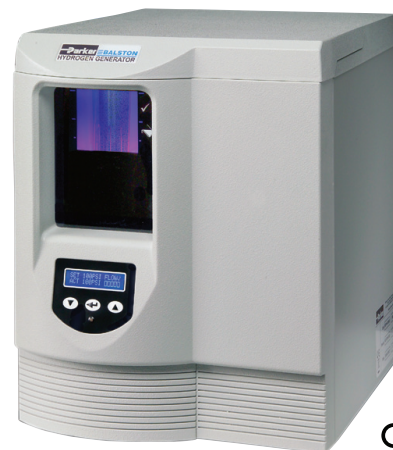
# Parker Balston® PEM Hydrogen Generators

## Parker Balston® PEM Hydrogen Generators

Description	Model #	Capacity	qty.	cat.#
Hydrogen Generator	H2PEM-100	100cc/min.	ea.	23065
Hydrogen Generator	H2PEM-165	165cc/min.	ea.	23066
Hydrogen Generator	H2PEM-260	260cc/min.	ea.	23067
Hydrogen Generator	H2PEM-510	510cc/min.	ea.	23068

### Replacement and Maintenance Components for Hydrogen Generators (for all models listed above)

Replacement Desiccant Cartridge for H2PEM Generators		ea.	23069
6-Month Maintenance Kit for H2PEM Generators Includes: 1 deionizer cartridge, 1 water filter, 3 environmental filters		kit	23070
24-Month Maintenance Kit for H2PEM Generators Includes: 1 deionizer cartridge, 1 water filter, 3 environmental filters, 1 water level sensor, 1 water pump, and 1 desiccant cartridge		kit	23071



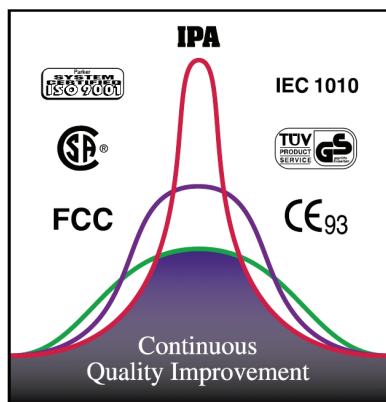
## International Power Cord Sets

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 Zero Air (100VAC, 50/60Hz)	ea.	-553
Japanese for Hydrogen (100VAC, 50/60Hz)	ea.	-554
Japanese for Nitrogen (100VAC, 50/60Hz)	ea.	-555

## Specifications

Purity:	99.9995% pure hydrogen
Delivery Pressure:	5-100 psig ± 0.5 psig (69-689 kPa ± 3kPa)
Outlet Port:	1/8" compression
Electrical Requirements:	100-230 VAC/50-60 Hz
Physical Dimensions:	17.12"h x 13.46"w x 17.95"d (43.48 x 34.19 x 45.6 cm)
Shipping Weight:	59 lbs. (27 kg) dry



## please note

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

Keep your carrier gas clean with Super-Clean gas filters from Restek!



[www.restek.com/gasfilters](http://www.restek.com/gasfilters)

**Contact your Restek representative and order yours today!**

Visit [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) to find a distributor or representative.

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