

FAST FACTS

FID Gas Stations



Parker Balston® Model FID-1000 and FID-2500 Gas Stations

- Ideal for up to 5-6 FIDs.
- Produce UHP zero air from house compressed air (<0.1 ppm THC) and 99.9995% pure hydrogen in one enclosure.
- Eliminate inconvenient and dangerous cylinders from the laboratory.
- Increase the accuracy of analysis and reduce detector cleaning requirements.
- Recommended and used by many GC and column manufacturers.
- Payback period typically less than one year.
- Automatic water fill is standard.
- Silent operation; minimal operator attention required.

Parker Balston® FID-1000 and FID-2500 Gas Stations provide both UHP grade hydrogen fuel gas and zero grade air for flame ionization detectors on gas chromatographs. The Gas Station system is designed specifically to supply fuel gas to FIDs and to support flame thermionic and flame photometric detectors. The units produce zero air by purifying compressed air to a total hydrocarbon concentration of 0.1ppm or less (measured as methane).

The Gas Stations produce hydrogen gas from deionized water, using the principle of electrolytic dissociation of water and hydrogen proton conduction through a proton exchange membrane cell.

Proven Hydrogen Generation Technology

The hydrogen generator compartment uses the principle of electrolytic dissociation of water and hydrogen proton conduction through a proton exchange membrane cell. It produces 99.9995% pure hydrogen at up to 250 cc/min., with pressures to 60 psig.

Proven Zero Air Technology

Zero air is produced by purifying on-site compressed air to a total hydrocarbon concentration of < 0.1 ppm (measured as methane). The zero air compartment produces up to 2500 cc/min of zero air.

Gas Generator Benefits

Parker Balston® FID Gas Stations are complete systems with state-of-the-art, highly reliable components engineered for easy installation, operation, and long term performance. They eliminate all the inconveniences and cost of zero air and hydrogen cylinder gas supplies and dependence on outside vendors. Uncontrollable price increases, contract negotiations, long term commitments, and tank rentals are no longer a concern. With an FID Gas Station, you control your gas supply.

Meet OSHA and NFPA Requirements

All Parker Balston® gas generators meet National Fire Protection Agency 50A and Occupational Safety and Health Association 1910.103 regulations governing the storage of hydrogen.

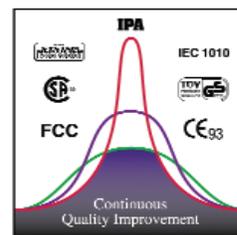
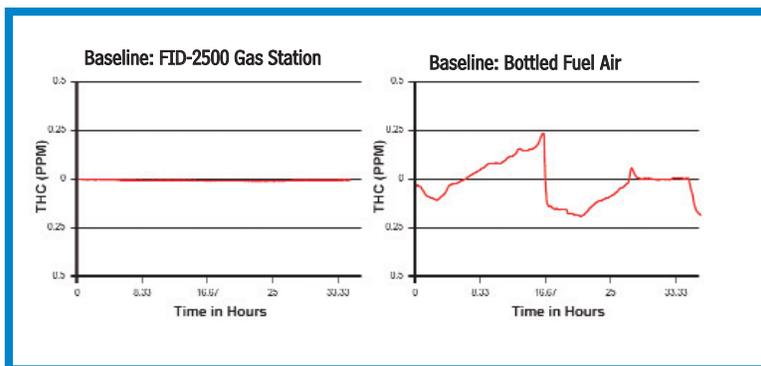


Turning Visions into Reality™

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Parker Balston® Model FID-1000 and FID-2500 Gas Stations

Compare baselines produced by a Parker Balston® FID Gas Station and bottled fuel air. The baseline produced by the Parker Balston® Generator is flat, with no fluctuations or peaks; the chromatogram from the bottled air fuel supply has many peaks ranging from 0.25 ppm to -0.25 ppm.



Built to International Standards
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, CE and IEC 1010.

Specifications - ParkerBalston® FID Gas Stations:

Hydrogen Purity:	99.9995%
Zero Air Purity:	FID-1000: < 0.1ppm total hydrocarbons as methane FID-2500: < 0.05ppm total hydrocarbons as methane
Max. Hydrogen Flow Rate:	FID-1000: 90cc/min. FID-2500: 250cc/min.
Max. Zero Air Flow Rate:	FID-1000: 1000cc/min. FID-2500: 2500cc/min.
Power:	120VAC/amp, 60Hz, 400 watts

Hydrogen Outlet Pressure:	60 psig
Zero Air Outlet Pressure:	40-125 psig*
Inlet Connection:	1/4" NPT (female)
Outlet:	1/8" compression
Dimensions:	16.5"h x 10.5"w x 17"d (42cm x 27cm x 43cm)
Weight:	53 lbs. (24kg)

*Zero air inlet requires minimum of 40psig compressed air pressure.

Description

Model FID-1000 Gas Station (ideal for 1 - 2 FIDs)	qty.	cat. #
Model FID-2500 Gas Station (ideal for 5 - 6 FIDs)	ea.	20177
	ea.	24913

Replacement Components for FID Gas Stations

Resin Bed Cartridge for Hydrogen Generators in FID-1000 and FID-2500 Gas Stations	ea.	24914
Replacement Desiccant Cartridge	ea.	21671
FID Gas Station Maintenance Kit (Includes 1 desiccant cartridge, 1 resin bed cartridge, 1 filter cartridge)	ea.	24915

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

ordering note

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



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HROMalytic Chromatography Products '08
Australian Distributors ECH nology
 www.chromtech.net.au E-mail : info@chromtech.net.au Tel : +61 3 9762 2034 Fax : +61 3 9761 1169

