

FID Gas Stations

Built to International Standards

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

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 0.1 ppm 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

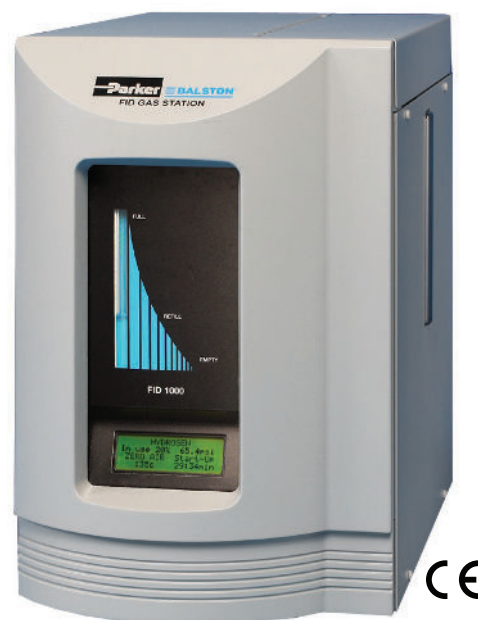
Zero air is produced by purifying on-site compressed air to a total hydrocarbon concentration of < 0.1 ppm (measured as methane). The zero air compartment produces up to 2,500 cc/min. of zero air.

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

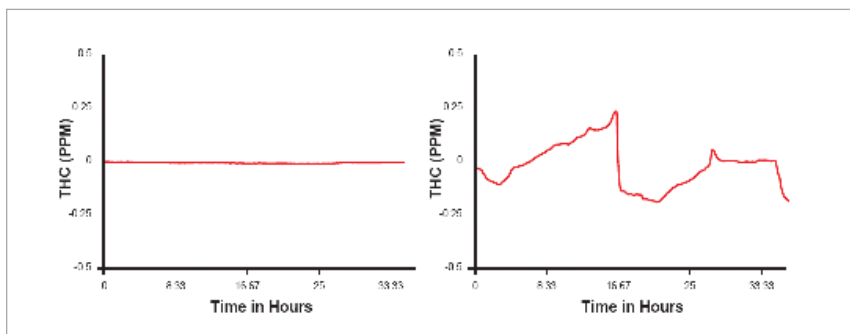
All Parker Balston® gas generators meet National Fire Protection Agency 50A and Occupational Safety and Health Association 1910.103 regulations governing the storage of hydrogen.



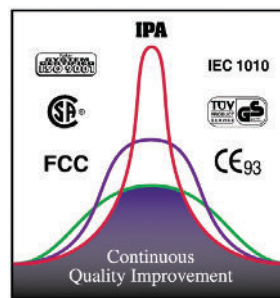
- Single unit produces UHP zero air from house compressed air and 99.9995% pure hydrogen from deionized water.
- Ideal for supplying up to 5-6 FIDs.
- Eliminates inconvenient and dangerous gas cylinders.
- Silent operation, minimal operator attention required.

Visit www.restek.com for a complete product listing

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.

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

Description	Model #	qty.	cat. #
Gas Station	Model FID-1000 (ideal for 1-2 FIDs)	ea.	20177
Gas Station	Model FID-2500 (ideal for 5-6 FIDs)	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		ea.	24915
Includes: 1 desiccant cartridge, 1 resin bed cartridge, 1 filter cartridge			

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 - FID Gas Stations:

Hydrogen Purity:	99.9995%
Zero Air Purity:	< 0.1 ppm total hydrocarbons as methane
Max. Hydrogen Flow Rate:	FID-1000: 90 cc/min. FID-2500: 250 cc/min.
Max. Zero Air Flow Rate:	FID-1000: 1,000 cc/min. FID-2500: 2,500 cc/min.
Power:	120 VAC/amp, 60 Hz, 480 watts
Hydrogen Outlet Pressure:	60 psig (414 kPa)
Zero Air Outlet Pressure:	40-125 psig* (276-862 kPa)
Inlet Connection:	1/4" NPT (female)
Outlet:	1/8" compression
Dimensions:	16.5" h x 10.5" w x 17" d (42 cm x 27 cm x 43 cm)
Weight:	53 lbs. (24 kg)

*Zero air inlet requires minimum of 40 psig (276 kPa) compressed air pressure.

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

www.restek.com/gasfilters

