FID Gas Stations

- **Ideal for up to 5-6 FIDs**
- **Produces UHP zero air from house compressed air (<0.01 ppm THC) and 99.9995% pure hydrogen in one enclosure**
- **Eliminates inconvenient and dangerous zero air and hydrogen cylinders from the laboratory**
- **Increases the accuracy of analysis and reduces the cleaning requirement of the detector**
- **Recommended and used by many GC and column manufacturers**
- **Payback period of typically less than one year**
- **Automatic water fill as standard**
- **Silent operation and minimal operator attention required**

FID Gas Station

Parker Balston's FID-1000 and FID-2500 Gas Stations can provide both hydrogen gas and zero grade air to FID detectors on Gas Chromatographs. These systems are specifically designed to provide fuel gas and support air to 5-6 Flame Ionization Detectors, Flame Photometric Detectors or Total Hydrocarbon Analyzers.

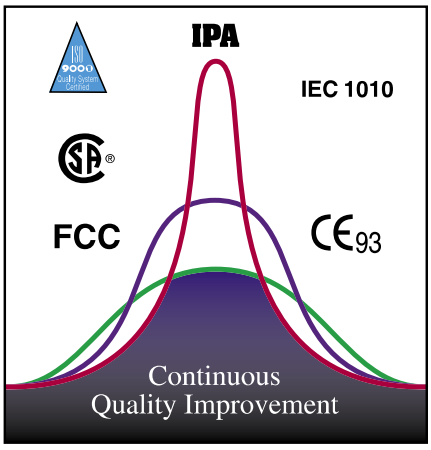
Hydrogen gas is produced from deionized water using a Proton Exchange Membrane Cell. The hydrogen generator compartment utilizes the principle of electrolytic dissociation of water and hydrogen proton conduction through the membrane. The hydrogen supply produces up to 250 cc/min of 99.9995% pure hydrogen with pressures to 60 psig.

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 Grade Air.

The FID Gas Stations are complete systems with state-of-the-art, highly reliable components engineered for easy installation, operation, and long term performance. The Parker Balston® FID-1000 and FID-2500 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.

All Parker Balston gas generators meet NFPA 50A and OSHA 1910.103 regulations governing the storage of hydrogen.

Produced and supported by an ISO 9001 registered organization, Parker Balston's hydrogen generators are the first built to meet the toughest laboratory standards in the world: CSA, UL, CE and IEC 1010.



Parker Hannifin Corporation
Filtration and Separation Division
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www.parker.com/ags

FID Gas Stations

Principal Specifications

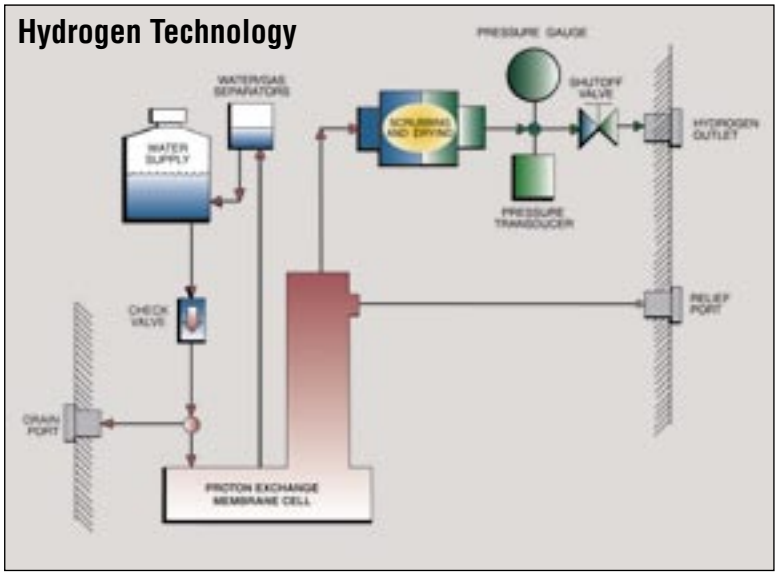
FID Gas Stations

Hydrogen Purity	99.9995%
Zero Air Purity	<0.1 ppm (total hydrocarbon as methane)
Maximum Hydrogen Flow Rate	FID-1000: 90 cc/min FID-2500: 250 cc/min
Maximum Zero Air Flow Rate	FID-1000: 1000 cc/min FID-2500: 2500 cc/min
Electrical Requirements	120 VAC, 60 Hz, 400 Watts
Hydrogen Outlet Pressure	60 psig
Zero Air Outlet Pressure	40-125 psig
Certifications	IEC 1010-1; CSA 1010; UL 3101; CE Mark
Dimensions	10.5"w x 17"d x 16.5"h (27cm x 43cm x 42cm)
Inlet Port	1/4" NPT (female) compressed air supply
Outlet Port	1/8" Compression
Shipping Weight	53 lbs/24 kg

Ordering Information for assistance, call 800-343-4048, 8 to 5 Eastern Time

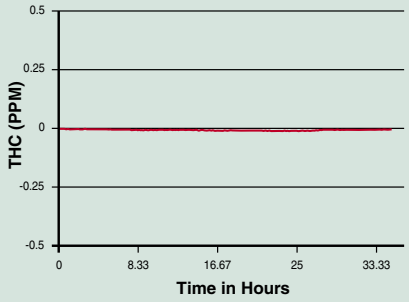
Model	Description
B02-0323	Resin Bed Cartridge
1647727	Desiccant Cartridge
FID-1000, FID-2500	FID Gas Station
MKFID1000	Maintenance Kit (Includes 1 each desiccant cartridge, 1 each resin bed cartridge, and 1 each filter cartridge)
Preventative Maintenance Contract	LFFIDGS-PM
Extended Support with 24 Month Warranty	FID-1000-DN2, FID-2500-DN2

Hydrogen Technology



The Chromatograms (below) compare baselines produced by a Parker Balston Zero Air Generator and bottled fuel air. The baseline produced by the Parker Balston Generator is very flat, with no fluctuations or peaks, in comparison with the chromatogram of the bottled air fuel supply, which has many peaks ranging from .25 ppm to -.25 ppm.

Baseline FID-2500 Gas Station



Baseline Bottled Fuel Air