FID Gas Stations

Hydrogen Generators for Gas Chromatography

Designed to provide fuel gas and support air to 5-6 flame ionization detectors, flame photometric detectors, or total hydrocarbon analyzers, Parker FID Gas Stations provide both hydrogen gas and zero grade air to FID detectors on gas chromatographs. Hydrogen gas is produced from deionized water using a proton exchange membrane cell. The gas stations' generator compartment utilizes the principle of electrolytic dissociation of water and hydrogen proton conduction through the membrane, and supplies up to 250 cc/min of 99.9995% pure hydrogen with pressures to 60 psig. The zero air compartment produces up to 2500 cc/min of zero grade air by purifying on-site compressed air to a total hydrocarbon concentration of < 0.1 ppm (measured as methane).

Product Features:

- Ideal for up to 5-6 FIDs
- Increases analysis accuracy
- Reduces the cleaning requirement for the detector
- Recommended by many GC and column manufacturers
- ROI of less than one year
- Automatic water fill
- Silent operation
- Minimal operator attention required
- Meets NFPA 50A

Ordering Information

Description	Model
FID Gas Station	FID-1000NA, FID-2500NA
Installation Service	FID-1000-INST, FID-2500-INST
Annual Maintenance Kit	MKFID1000
Preventive Maintenance Kit	FID-1000-PM, FID-2500-PM
Extended Support (24 Month Warranty)	FID-1000-DN2, FID-2500-DN2

Parker

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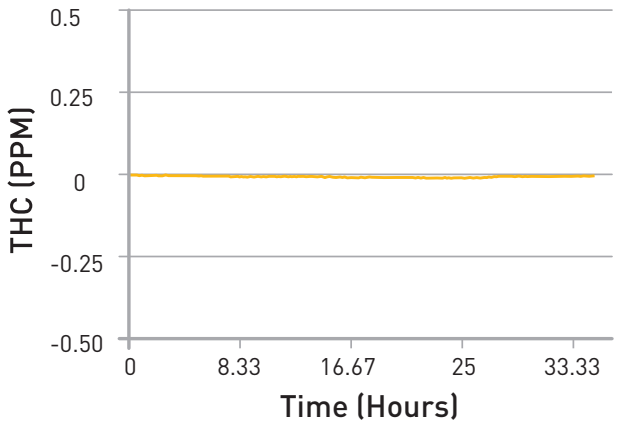
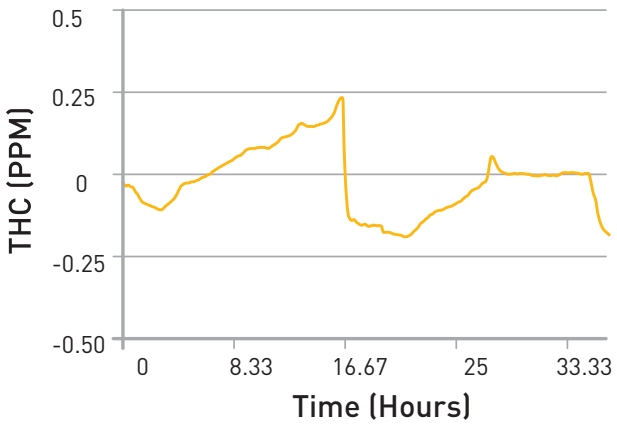
The chromatograms (below) compare baselines produced by a Parker FID gas station and bottled fuel air. The baseline produced by the Parker generator is very flat, with no fluctuations or peaks, in comparison with the chromatogram of the bottled air fuel supply, which has many peaks ranging from .25 ppm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





Principal Specifications

Model	FID-1000NA	FID-2500NA
Hydrogen Purity	99.9995%	
Zero Air Purity	< 0.1 ppm (total hydrocarbon as methane)	
Maximum Hydrogen Flow Rate	90 mL/min	250 mL/min
Maximum Zero Air Flow Rate	1000 mL/min	2500 mL/min
Electrical Requirements	120/230 VAC, 60/50 Hz, 4 Amps	
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 (27 cm x 43 cm x 42 cm)	
Inlet Port	1/4" NPTF compressed air supply	
Outlet Ports	1/8" compression	
Shipping Weight	53 lbs / 24 kg	

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