

# FID Gas Generators

for Gas Chromatography Distributed by:



**Carl Stuart Limited**

ADVANCED APPLIED TECHNOLOGIES

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## FID Gas on Demand, up to 250 ml/min H<sub>2</sub> and 2,500 ml/min Air

The Parker Balston FID Gas Station's combines two gas generators in one enclosure to supply all your FID gas requirements from one generator. The generators can produce up to 250 ml/min of high purity hydrogen and 2,500 ml/min of high purity, <0.05ppm THC, air. Each system is capable of supplying up to six FID's.



### Contact Information:

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### Product Features:

- Produces a supply of 99.9999% pure hydrogen and 0.05ppm THC Air
- Eliminate dangerous hydrogen cylinders from the laboratory
- Supplies the gas requirements for up to six FID's
- Designed to run 24 hours a day
- Compact, reliable and minimal maintenance
- Simple annual maintenance

**Parker** **BALSTON**  
Analytical Gas Systems

**ENGINEERING YOUR SUCCESS.**

**Zero Air on demand, up to 2,500 ml/min**  
Compressed air is pre filtered down to 0.01 micron and then purified using a state-of-art combined heated catalyst module.

The resultant air is free of total hydrocarbons (THC) to <0.05ppm making it ideal for all FID applications. The low levels guarantee a low signal to noise ratio, ensuring a flat constant base line with no peaks or fluctuations.

There are no moving parts and no noise making the generator extremely reliable and ideal to install in the laboratory. Simple and quick to install the Zero Air Generator requires maintenance just once per year.

**Hydrogen on demand, up to 250 ml/min**  
Deionised water is all that is required to generate hydrogen for weeks of continuous operation. The generators utilises a propriety Proton Exchange Membrane to produce hydrogen on demand.

A sophisticated control system, connected to a LCD continuously monitors the vital operating parameters to ensure a safe and consistent performance.

Parker Balston Proton Exchange Membrane is proven in 1,000's of GC installations worldwide. Maintenance requires only a few moments per year - no inconvenient extended downtime. Simply change the deioniser cartridge every 6 months and the desiccant as required.

### Principal Specification

Model	FID-1000		FID-2500	
	Hydrogen	Zero Air	Hydrogen	Zero Air
Gas	Hydrogen	Zero Air	Hydrogen	Zero Air
Purity	99.9999%	< 0.05ppm THC	99.9999%	< 0.05ppm THC
Flow Rates	90 ml/min	1,000 ml/min	250 ml/min	2,500 ml/min
Outlet Connection	1/8" compression	1/8" compression	1/8" compression	1/8" compression
Delivery Pressure	4.1 bar	2.7 to 8.5 bar	4.1 bar	2.7 to 8.5 bar
Water Quality Required	> 5 Mohm	N/A	> 5 Mohm	N/A
Ambient Temperature	10 to 35°C			
Electrical Requirements	230VAC - 50Hz			
Power Consumption	460 Watts			
Dimensions (H x W x D)	435 x 342 x 457 mm			
Weight (Shipping)	24 Kg (28)			

### Ordering Information

Description	Model Number
90 ml/min Hydrogen / 1000 ml/min Zero Air	FID-1000
250 ml/min Hydrogen / 2500 ml/min Zero Air	FID-2500
Installation Kit	IK7532

Maintenance items	Model Number	Change Frequency
Resin Bed Cartridge	B02-0323	6 Months
Desiccant Cartridge	1647727	As required
Maintenance Kit Zero Air	MK7583	12 Months
Maintenance Kit FID 1000 and 2500 (Includes 1647727, B02-0323 and MK7583)	MKFID1000	12 Months / As required