Balston E024CB-A

Main Board

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Hydrogen Generators

for Gas Chromatography

Palladium

Hydrogen on Demand, up to 300 ml/min

Ultra high purity hydrogen generators from Parker Balston are designed as hazard-free alternatives to high-pressure hydrogen cylinders. Deionised water and an electrical supply is all that is required to generate hydrogen for weeks of continuous operation.

Automatic feed-water is available as standard for remote installations or where minimal operator attention is required. With an output capacity of up to 300 ml/min, one generator can supply 99.99999% pure fuel gas for up to 7 FID's or several GC's with carrier gas.

Contact Information:

Parker Hannifin (UK) Limited
Process Air and Gas Business Unit
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Maidstone, Kent ME16 9NT

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Product Features:

- Produces a continuous supply of 99.99999% pure hydrogen gas at up to 4.1 bar
- Designed to run 24 hours a day
- Certified for laboratory use by CSA, UL, and CE marked
- Eliminate dangerous hydrogen cylinders from the laboratory
- Simple low cost annual maintenance
- Ideal for fuel and carrier gas requirements

Parker BALSTON
Analytical Gas Systems

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Certified Safety
Parker Balston hydrogen generators utilise an exclusive palladium membrane to produce hydrogen on demand. A built in pressure transducer monitors the down stream requirements. This ensures the hydrogen generator produces only enough gas for the application keeping internal storage to an absolute minimum.

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

That's why Parker Balston hydrogen generators meet the strict safety guidelines to be certified for CE, CSA and UL approval.

Proven Technology
Parker Balston's exclusive Palladium Membrane is proven in thousands of GC installations worldwide.

Maintenance requires only a few minutes per year - no inconvenient extended downtime. Simply change the electrolyte every 12 months.

Hydrogen gas is produced by electrolytic dissociation of water. The resultant hydrogen stream then passes through a palladium membrane to ensure ultra high purity.

Only hydrogen and its isotopes can penetrate the palladium membrane; therefore, the purity of the output gas is **consistently** 99.99999+%

Principal Specification

Model	**H2PD-150**	**H2PD-300**
Purity	99.99999+%	99.99999+%
Flow Rates	150 ml/min	300 ml/min
Outlet Connection	1/8" compression	1/8" compression
Delivery Pressure (Adjustable)	0.7 to 4.1 bar	0.7 to 4.1 bar
Auto Water Fill	Yes	Yes
Water Quality Required	> 5 Mohm	> 5 Mohm
Ambient Temperature	10 to 35°C	10 to 35°C
Electrical Requirements	230VAC - 50Hz	230VAC - 50Hz
Power Consumption	200 Watts	200 Watts
Dimensions (H x W x D)	580 x 300 x 300 mm	580 x 300 x 300 mm
Weight (Shipping)	23 Kg (26)	23 Kg (26)

Ordering Information

Description	**Model Number**
150 ml/min Hydrogen Generator	H2PD-150
300 ml/min Hydrogen Generator	H2PD-300
Installation Kit	IK7532

Maintenance Items	**Model Number**	**Change Frequency**
Electrolyte Solution	REAG-920071	12 Months

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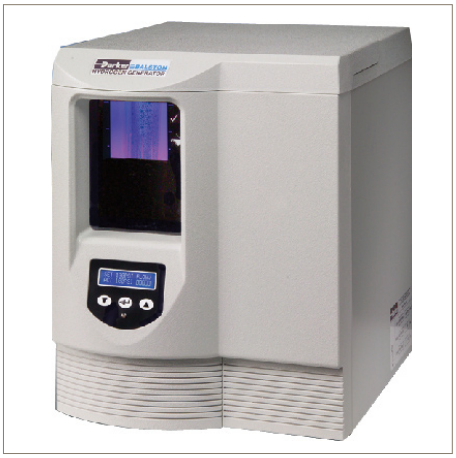
Hydrogen Generators

for Gas Chromatography

PEM (Proton Exchange Membrane)



Hydrogen on Demand, up to 510 ml/min

Ultra high purity hydrogen generators from Parker Balston are designed as hazard-free alternatives to high-pressure hydrogen cylinders. Deionised water and an electrical supply is all that is required to generate hydrogen for weeks of continuous operation.

Optional automatic feed-water is available for remote installations or where minimal operator attention is required. With an output capacity of up to 510 ml/min, one generator can supply 99.9999% pure fuel gas for up to 12 FID's or several GC's with carrier gas. The compact design allows the generators to be installed directly in the laboratory eliminating the requirement for long hydrogen lines.

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Product Features:

- Produces a continuous supply of 99.9999% pure hydrogen gas at up to 6.9 bar
- Designed to run 24 hours a day
- Compact, reliable and minimal maintenance
- Eliminate dangerous hydrogen cylinders from the laboratory
- 2 years standard warranty
- Ideal for fuel and carrier gas requirements

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Certified Safety
Parker Balston hydrogen generators utilise an exclusive Proton Exchange Membrane to produce hydrogen on demand. A built in sensing circuit shuts the generator down if a hydrogen leak is detected and an eight-stage explosion protection system ensures the highest level of operator safety.

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

That's why Parker Balston hydrogen generators meet the strict safety guidelines to be certified for CE, CSA and UL approval.

Proven Technology
Parker Balston's exclusive Proton Exchange Membrane is proven in thousands 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 cartridge as required.

If contaminated water or low water levels are detected, the system activates a warning light and shuts off the generator. A small pump and environmental filters also ensure that the electrolytic cell is supplied continuously with high quality water - avoiding damage to the electrolytic membrane. Parker Balston's hydrogen generators are the most reliable hydrogen generators on the market today.

Principal Specification

Model	H2PEM-100	H2PEM-165	H2PEM-260	H2PEM-510
Purity*	99.9999%	99.9999%	99.9999%	99.9999%
Flow Rates	100 ml/min	165 ml/min	260 ml/min	510 ml/min
Outlet Connection	1/8" compression	1/8" compression	1/8" compression	1/8" compression
Delivery Pressure (Adjustable)	0.7 to 6.9 bar (+/- 0.07bar)	0.7 to 6.9 bar (+/- 0.07bar)	0.7 to 6.9 bar (+/- 0.07bar)	0.7 to 6.9 bar (+/- 0.07bar)
Remote Monitoring	Yes	Yes	Yes	Yes
Auto Water Fill	Optional	Optional	Optional	Optional
Water Quality Required	> 5 Mohm	> 5 Mohm	> 5 Mohm	> 5 Mohm
Ambient Temperature	10 to 35°C	10 to 35°C	10 to 35°C	10 to 35°C
Electrical Requirements	100-230v - 50/60Hz	100-230v - 50/60Hz	100-230v - 50/60Hz	100-230v - 50/60Hz
Power Consumption	90 Watts	160 Watts	250 Watts	500 Watts
Dimensions (H x W x D)	435 x 342 x 457 mm	435 x 342 x 457 mm	435 x 342 x 457 mm	435 x 342 x 457 mm
Weight (Shipping)	24 Kg (28)	24 Kg (28)	24 Kg (28)	24 Kg (28)

*with respect to Oxygen

Ordering Information

Description	Model Number
100 ml/min Hydrogen Generator	H2PEM-100
165ml/min Hydrogen Generator	H2PEM-165
260 ml/min Hydrogen Generator	H2PEM-260
510 ml/min Hydrogen Generator	H2PEM-510
Auto Water Fill Option	Add suffix AWF i.e. H2PEM-100-AWF
Installation Kit	IK7532

Maintenance items	Model Number	Change Frequency
Desiccant Cartridge	MKH2PEM-D	As Required
6 Month Maintenance Kit	MKH2PEM-6M	6 Months
24 Month Maintenance Kit	MKH2PEM-24M	24 Months

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Parker BALSTON
Analytical Gas Systems

Nitrogen Generators

for Gas Chromatography

Nitrogen on Demand, up to 2,000 ml/min

The Parker Balston Ultra High Purity (UHP) Nitrogen Generators are engineered to transform standard compressed air in to a safe regulated supply of 99.9999% pure nitrogen.

Typical applications include GC make up gas and carrier gas, including ECD (Electron Capture Detector), solvent evaporation, DSC (Differential Scanning Calorimeter) and virtually any analytical instrument that requires a small flow of ultra high puirty nitrogen.

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Product Features:

- Produces a continuous supply of high purity nitrogen 99.9999% for GC applications
- Ideal for make-up and carrier gas applications including ECD
- Eliminate dangerous nitrogen cylinders from the laboratory
- Ideal for TOC applications including combustion, UV persulate and wet oxydation sampling techniques
- Low maintenance, minimal operation attention
- Designed to run 24 hours a day

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Nitrogen is produced by utilising a combination of filtration and pressure swing adsorption (PSA) technology. Standard compressed air is filtered by high efficiency coalescing filters to remove all contaminants down to 0.01 micron.

The air then passes through two columns filled with carbon molecular sieve (CMS) which adsorb O_2, CO_2, moisture and hydrocarbons. These are desorbed to atmosphere during the pressure swing cycle leaving a supply of ultra pure nitrogen.

For ultra sensitive applications such as ECD, units are also available with the addition of a heated catalyst module to ensure hydrocarbons are removed to < 0.1 ppm.

Principal Specification

Model	UHPN2-1100	HPN2-1100	HPN2-2000
Purity	99.9999 %	99.9999 %	99.99 %
Hydrocarbon Concentration	< 0.1ppm	N/A	N/A
Flow Rates	See Table	See Table	2,000 ml/min
Inlet Pressure	4.1 to 8.6 bar	4.1 to 8.6 bar	5.1 to 8.6 bar
Inlet Connection	1/4" NPT (Female)	1/4" NPT (Female)	1/4" NPT (Female)
Outlet Connection	1/8" NPT (Female)	1/8" NPT (Female)	1/8" NPT (Female)
Ambient Temperature	10 to 35°C	10 to 35°C	10 to 35°C
Electrical Requirements	230VAC - 50Hz	230VAC - 50Hz	230VAC - 50Hz
Power Consumption	700 Watts	25 Watts	25 Watts
Dimensions (H x W x D)	890 x 310 x 410 mm	890 x 310 x 410 mm	890 x 310 x 410 mm
Weight (Shipping)	47 Kg (50)	47 Kg (50)	47 Kg (50)

Flow Rates ml/min

Model	Inlet Air Pressure (Bar)	Maxiumum Outlet Flow (ml/min)	Maximum Outlet Pressure (Bar)
UHPN2-1100 and HPN2-1100	8.6	1,100	5.9
	7.6	1,000	5.2
	6.9	900	4.5
	6.2	800	4.1
	5.5	700	3.4
	4.8	600	3.1
	4.1	500	2.4

Ordering Information

Description	Model Number
500 to 1,100 ml/min Ultra High Purity Nitrogen Generator (with Hydrocarbon removal)	UHPN2-1100
500 to 1,100 ml/min High Purity Nitrogen Generator	HPN2-1100
2,000 ml/min High Puirty Nitrogen Generator	HPN2-2000
Installation Kit	IK7694

Maintenance Items	Model Number	Change Frequency
Maintenance Kit for UHPN2-1100	MK7694	12 Months
Maintenance Kit for HPN2-1100	MK7692	12 Months
Maintenance Kit for HPN2-2000	MK7692	12 Months

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Parker BALSTON
Analytical Gas Systems

Zero Air Generators

for Gas Chromatography

Zero Air on Demand, up to 30,000 ml/min

The Parker Balston Zero Air Generator can produce up to 30,000 ml/min of high purity zero grade air. Compressed air is pre filtered down to 0.01 micron and then purified using a state-of-art combined heated catalyst module.

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 minimal maintenance just once a year.

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.

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Product Features:

- Ultra high purity air for GC FID applications
- Payback period typically less than one year
- Silent operation and minimal operator attention required
- Eliminate inconvenient and potentially dangerous air cylinders from the laboratory
- Models available to service up to 75 FID's
- Increases the accuracy and repeatability of analysis

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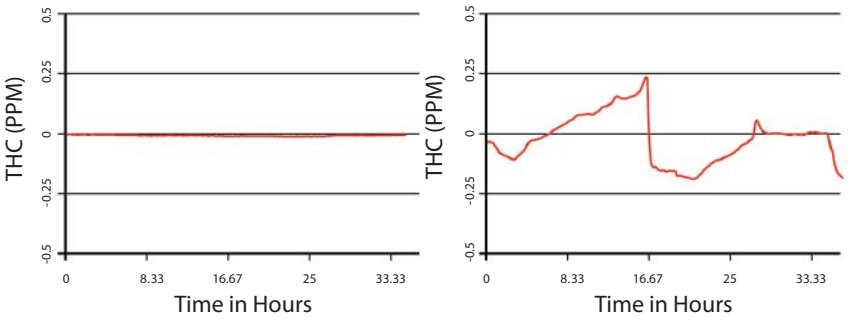
The chromatograms compare baselines produced by a Parker Balston Zero Air Generator and cylinder air.

The baseline produced by the Parker Balston Generator is very flat, with no fluctuations or peaks, in comparison with the chromatogram of the cylinder air supply, which has many peaks ranging from 0.25 ppm to -0.25 ppm



Principal Specification

Model	75-83	HPZA-3500	HPZA-7000	HPZA-18000	HPZA-30000
Purity	< 0.1ppm THC	< 0.05ppm THC	< 0.05ppm THC	< 0.05ppm THC	< 0.1ppm THC
Flow Rates	1,000 ml/min	3,500 ml/min	7,000 ml/min	18,000 ml/min	30,000 ml/min
Number of FID's*	Up to 2	Up to 8	Up to 16	Up to 45	Up to 75
Inlet Pressure	2 to 8 bar	2 to 8 bar	2 to 8 bar	2 to 8 bar	2 to 8 bar
Outlet Pressure	2 to 8 bar	2 to 8 bar	2 to 8 bar	2 to 8 bar	2 to 8 bar
Inlet Connection	1/4" NPT (Female)	1/4" NPT (Female)	1/4" NPT (Female)	1/4" NPT (Female)	1/4" NPT (Female)
Outlet Connection	1/4" NPT (Female)	1/4" NPT (Female)	1/4" NPT (Female)	1/4" NPT (Female)	1/4" NPT (Female)
Ambient Temperature	10 to 35°C	10 to 35°C	10 to 35°C	10 to 35°C	10 to 35°C
Electrical Requirements	230VAC - 50Hz	230VAC - 50Hz	230VAC - 50Hz	230VAC - 50Hz	230VAC - 50Hz
Power Consumption	150 Watts	220 Watts	220 Watts	440 Watts	440 Watts
Dimensions (H x W x D)	250 x 300 x 80 mm	420 x 270 x 340 mm	420 x 270 x 340 mm	420 x 270 x 340 mm	420 x 270 x 340 mm
Weight (Shipping)	2 Kg (3)	16 Kg (19)	16 Kg (19)	16 Kg (19)	16 Kg (19)

*400 ml/min per FID

Ordering Information

Description	Model Number
1,000 ml/min Zero Air Generator	75-83
3,500 ml/min Zero Air Generator	HPZA-3500
7,000 ml/min Zero Air Generator	HPZA-7000
18,000 ml/min Zero Air Generator	HPZA-18000
30,000 ml/min Zero Air Generator	HPZA-30000
Installation Kit	IK76803

Maintenance Items	Model Number	Change Frequency
Maintenance Kit for Model 75-83	MK7583	12 Months
Maintenance Kit for Models HPZA-3500, HPZA-7000, HPZA-18000, HPZA-30000	MK7840	12 Months

Analytical Gas Systems

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FID Gas Generators

for Gas Chromatography

FID Gas on Demand, up to 250 ml/min H_2 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.

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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

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Analytical Gas Systems

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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	
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, BO2-0323 and MK7583)	MKFID1000	12 Months / As required

S3.2.010a January 2008

Parker Balston Analytical Gas Systems

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HydroGen Mate

for Hydrogen Generators

Deionised water on Demand, up to 1 lpm

The Parker Balston HydroGen Mate is a complete system designed with carefully matched components engineered for easy installation, operation and long term reliability. They are engineered to transform standard tap water into a safe regulated supply of deionised water (> 5 megohms/cm), with minimal operator attention.

With flow rates up to 1 lpm they make an ideal solution as a point of use supply, for all Parker Balston hydrogen generators users who do not have access to a suitable deionised water supply.

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Product Features:

- Produces a continuous supply of high purity water for hydrogen generators
- Visual indication for cartridge change
- Compact, reliable and minimal maintenance
- Removal of organics, phosphates, chlorine, and all ionisable constituent
- Quick and easy installation, no electrical requirements
- Easy fill dispensing gun

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The system is supplied ready to install complete with pre-filtration, two DI resin exchange cartridges, a final filter and dispensing gun.

Simply change the resin exchange cartridges as required for a continuous supply of ultra pure deionised water.

Change times will depend on the quality of inlet water and usage.

Principal Specification

Model	**72-230**
Purity	>5 Megohm/cm - Final Filter 20 micron
Flow Rates	1 lpm
Maximum Water Inlet Pressure	3.4 bar
Maximum Water Supply Temperature	27°C
Inlet Connection	1/4" OD Tubing (Press Fitting)
Outlet Connection	Dispensing Gun
Ambient Temperature	10 to 35°C
Electrical Requirements	Not Required
Power Consumption	N/A
Dimensions (H x W x D)	460 x 310 x 70 mm
Weight (Shipping)	4.5 Kg (5.5)

Ordering Information

Description	**Model Number**
Complete DI Water System	72-230

Maintenance Items	**Model Number**	**Change Frequency**
Maintenance Kit	72236	12 Months

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Explosion Proof Zero Air Generators

for Process GC-FID

Zero Air on Demand, up to 650 ml/min

The Parker Balston explosion proof zero air generators are a complete system with carefully matched components engineered for easy installation, operation and long term reliability. They are designed to transform standard compressed air into a safe supply of hydrocarbon free (< 0.1ppm) zero grade air.

The explosion proof zero air generators are an ideal alternative to high purity air cylinders used on process GC-FID's in explosive environments. Simply connect to the GC-FID to ensure a low baseline signal to noise ratio resulting in consistent, accurate and reliable analysis. Payback periods are typically less than one year.

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Product Features:

- Produces a supply of high purity air for process GC-FIDS's in explosive environments
- Payback periods typically less than one year
- Compact design mounts directly to Unistrut® framing
- CENELEX Certification LCIE 03 ATEX 6232: Code EEX of 11B and H_2 T6, Category 112G
- CENELEX standard: EN 50014: 1997 +A1, A2, EN 50018: 2000
- Compact, reliable, no moving parts and minimal maintenance

Parker BALSTON®
Analytical Gas Systems

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The housing is a standard Crouse-Hinds explosion proof enclosure designed to operate in a Class 1, Division 1, groups B,C and D environments.

The intervals are all stainless steel to resist corrosion in the most hazardous environments.

The Parker Balston explosion proof zero air generators meet and exceed the CENELEX and ATEX requirements. Zero air is produced by utilising heated catalyst technology.

We recommend to pre filter instrument quality air with high efficiency coalescing filters to remove all contaminants down to 0.01 micron.

Compressed air flows across the heated catalyst to remove hydrocarbons to <0.1ppm. Finally the air passes through a combined filter / flame arrestor to ensure that the outlet air is particulate free.

Simply connect the Zero air generator to the process GC-FID for consistent reliable analysis.

Principal Specification

Model	**75-82EU-220**	**75-82EU**
Purity	< 0.1 ppm Hydrocarbons	< 0.1 ppm Hydrocarbons
Flow Rates	650 ml/min	650 ml/min
Inlet Pressure	2.8 to 8.6 bar	2.8 to 8.6 bar
IP Rating	IP54	IP54
Internal Components	Stainless Steel	Stainless Steel
Outlet Flame Arrestor	Included	Included
Maximum Hydrocarbon at Inlet	50 ppm	50 ppm
Ambient Temperature	4°C to 38°C	4°C to 38°C
Electrical Requirements	230VAC - 50Hz	110VAC - 60Hz
Power Consumption	60 Watts	60 Watts
Dimensions (H x W x D)	180 x 340 150 mm	180 x 340 150 mm
Weight (Shipping)	11 Kg (13)	11 Kg (13)

Ordering Information

Description	**Model Number**
Explosion Proof Zero Air Generator - 220V	75-82EU-220
Explosion Proof Zero Air Generator - 110V	75-82EU

Maintenance items	**Model Number**	**Change Frequency**
Replacement Final Filter 75-82EU-220 and 75-82EU	13299	12 Months
Replacement Catalyst Module for 75-82EU-220	75398-220	12 Months
Replacement Catalyst Module for 75-82EU	75398	12 Months

S3.2.009a January 2008

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