

Explosion Proof Zero Air Generators

for Process GC-FID

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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-FID'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 H₂ T6, Category 112G
- CENELEX standard: EN 50014: 1997 +A1, A2, EN 50018: 2000
- Compact, reliable, no moving parts and minimal maintenance

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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