

Zero Air Generators

- ▲ Produce UHP Zero Air from house compressed air (<0.05 ppm THC)
- ▲ Eliminate inconvenient and dangerous zero air cylinders from the laboratory
- ▲ Increase the accuracy of analysis and reduces the cleaning requirement of the detector
- ▲ Qualitative SMART-Display provides operational status at a glance
- ▲ Recommended and used by many GC and column manufacturers
- ▲ Payback period of typically less than 1 year
- ▲ Silent operation and minimal operator attention required
- ▲ Models available to service up to 66 FIDs

Parker Balston® Zero Air Generators are complete systems with state-of-the-art, highly reliable components engineered for easy installation, operation, and long term performance. Parker Balston Zero Air Generators are much easier to install than dangerous, high pressure gas cylinders, and only need to be installed once! All that is required is a standard compressed air line and an electrical outlet.

Parker Balston Zero Air Generators are easy to operate, there is no complicated operating procedure to learn or any labor intensive monitoring required.

Parker Balston Zero Air Generators eliminate all the inconveniences and costs of cylinder gas supplies and

dependence on outside vendors. Uncontrollable vendor price increases, contract negotiations, long term commitments and tank rentals are no longer a concern; Parker Balston Zero Air Generators offer long term cost stability.

There is no need to use valuable laboratory floor space to store excessive reserves to protect yourself from late deliveries, transportation interruptions, or periods of tight supplies. With a Parker Balston Zero Air Generator, you control your supply.



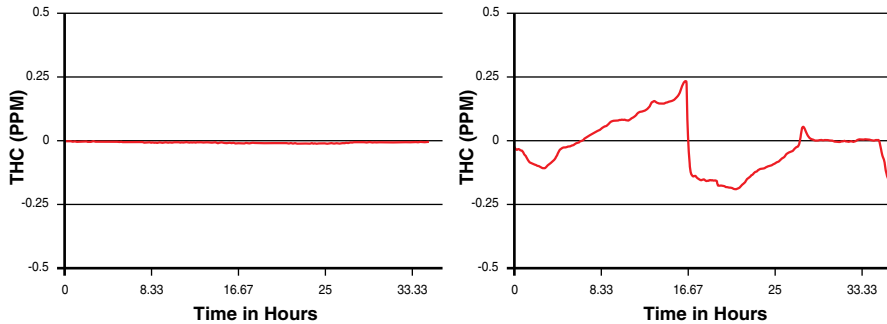
Model HPZA-7000

Model Number	Number of FIDs*
75-83NA	Up to 2
HPZA-3500	Up to 8
HPZA-7000	Up to 16
HPZA-18000	Up to 40
HPZA-30000	Up to 66

*Based on a 450 ccm fuel air rate.

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Baseline Comparison



The Chromatograms (left) 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.

Principal Specifications

Parker Balston Models 75-83NA, HPZA-3500, HPZA-7000, HPZA-18000, HPZA-30000

Max Zero Air Flow Rate	75-83NA HPZA-3500 HPZA-7000 HPZA-18000 HPZA-30000	1 lpm 3.5 lpm 7 lpm 18 lpm 30 lpm
Outlet Hydrocarbon Concentration (as methane)*		<0.05 ppm
Min/Max Inlet Air Pressure		40 psig/125 psig
Max Inlet Hydrocarbon Concentration (as methane)		100 ppm
Pressure Drop at Max Flow Rate		4 psig
Max Inlet Air Temperature		78°F (25°C)
Inlet/Outlet Ports		1/4" NPT (female)
Start-up Time for Specified Hydrocarbon Concentration (as methane)		45 minutes
Electrical Requirements (1)	75-83NA HPZA-3500, HPZA-7000 HPZA-18000, HPZA-30000	120 VAC/60 Hz, 0.5 amps 120 VAC/60 Hz, 2.0amps 120 VAC/60 Hz, 4.0 amps
Dimensions	75-83NA Other Models	10"w x 3"d x 12"h (25cm x 8cm x 30cm) 11"w x 13"d x 16"h (27cm x 34cm x 42cm)
Shipping Weight	75-83NA Other Models	7 lbs.(3 kg) 41 lbs.(19 kg)

* Outlet hydrocarbon concentration (as methane) for models 75-83NA and HPZA-30000 is less than 0.1 ppm.

(1) Refer to voltage appendix for electrical and plug configurations for outside North America.

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

Description	Model Number
Zero Air Generator	75-83NA, HPZA-3500, HPZA-7000, HPZA-18000, HPZA-30000
Maintenance Kit for Model 75-83NA	MK7583
Maintenance Kit for All Other Models	MK7840
Installation Kit for All Models	IK76803
Preventive Maintenance Plan	75-83-PM, HPZA-3500-PM, HPZA-7000-PM, HPZA-18000-PM, HPZA-30000-PM
Extended Support with 24 Month Warranty	75-83-DN2, HPZA-3500-DN2, HPZA-7000-DN2, HPZA-18000-DN2, HPZA-30000-DN2

Explosion-Proof Zero Air Generator

- ▲ Eliminates dangerous, expensive, and inconvenient gas cylinders from the laboratory
- ▲ Safe, even in explosive environments
- ▲ Low maintenance
- ▲ Produces a continuous supply of ultra high purity zero grade air
- ▲ Compact and reliable
- ▲ Designed to mount on Unistrut® framing or directly on the wall
- ▲ Certified by CSA (CSA NRTL/C)



Model 75-82S

The Parker Balston® Model 75-82S Zero Air Generator produces up to 1,000 cc/min. of high purity zero grade air from a standard compressed air supply. The generator utilizes state-of-the-art catalytic technology to convert compressed air into zero-grade air, at safe regulated pressures, on a continuous basis without the need of operator attention.

The housing is a standard Crouse-Hinds® explosion-proof enclosure designed to operate in a class 1, division 1, groups B, C, D environments. The internals are all stainless steel. This generator completely eliminates the need for expensive, inconvenient and dangerous gas cylinders. It is a turnkey system, ready to install on Unistrut frames or directly to the wall.

The Parker Balston® Model 75-82S Zero Air Generator can be used as: a fuel air supply to process GC-FIDs, and zero grade gas supply/ zero reference for process analytical instruments.

Zero grade air is produced from compressed air by means of catalytic oxidation. The compressed air is channeled into a heated catalyst

bed where the hydrocarbons are converted to carbon dioxide and water vapor, producing zero-grade air with less than 0.1 ppm hydrocarbon content (measured as methane). The use of a Parker Balston 75-82S Zero Air Generator has advantages over the conventional sources of fuel air for GC analysis. For example, a lower and more stable baseline signal can be obtained. Lower baseline noise means higher signal-to-noise ratio, giving rise to higher sensitivity or larger peak areas. The result is increased accuracy and reduced cleaning requirement of the detector.

Principal Specifications

Model 75-82S Zero Air Generator	
Explosion Proof Certification (CSA NRTL/C)	Class 1, Division 1, Groups B, C, and D
Maximum Flow Rate	1000 cc/min.
Total Hydrocarbon Concentration	< 0.1 ppm (measured as methane)
Min./Max. Inlet Pressure	40 psig/125 psig
Maximum Inlet Hydrocarbon Content	100 ppm
Maximum Inlet Air Dewpoint	10°F (5°C) above ambient
Pressure Drop at Max. Flow Rate	< 8 psid
Outlet Air Temperature	Ambient +20°F (+11°C)
Start-up Time	45 min.
Electrical Requirements	120 VAC/60 Hz, 0.5 amps
Shipping Weight	28 lbs. (13 kg)
Dimensions	11" w X 7" h X 6" d (28 cm X 18 cm X 15 cm)

Ordering Information

Description	Model Number
Zero Air Generator	75-82S
Replacement Catalyst Module	75398
Final Filter Cartridge	75820
Optional Prefilter Assemblies	2002N-1B1-DX, 2002N-1B1-BX
Installation Kit	IK76803
Preventive Maintenance Plan	75-82S-PM
Extended Support with 24 Month Warranty	75-82S-DN2