

# 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
Preventative Maintenance Contract	EXZA-PM
Extended Support with 24 Month Warranty	75-82S-DN2