

Flame-Proof Zero Air Generator

Model 75-82EU



The Parker Model 75-82S Zero Air Generator produces up to 1,000 cc/min. of high-purity zero. Using state-of-the-art catalytic technology, the generator continuously converts compressed air into zero-grade air, at safe regulated pressures, and can be used as fuel air to process GC-FIDs, and zero grade gas/zero reference for analytical instruments. Its housing is a standard Crouse-Hinds® flame-proof enclosure designed to operate in a class 1, division 1, groups B, C, or D environment and its internals are all stainless steel.

Zero grade air is produced by means of catalytic oxidation. 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).

Using a zero air generator for fuel air for GC analysis allows for a lower, more stable baseline signal to be obtained. Lower baseline noise allows for a higher signal-to-noise ratio, giving rise to higher sensitivity or larger peak areas, resulting in increased accuracy and reduced cleaning requirement of the detector.



Product Features:

- Safe, even in explosive environments
- Minimal operator attention required
- Produces a continuous supply of ultra high purity zero grade air
- Compact design requires small footprint



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Principal Specifications

Description	Model
Zero Air Generator	75-82EU, 75-82EU-220
ATEX Marketing	11 2 G Ex db IIB +H2 T6, Gb
Maximum Flow Rate	1000 mL/min
Total Hydrocarbon Concentration	< 0.1 ppm (measured as methane)
Min./Max Inlet Pressure	40 psig/125 psig
Max. Inlet Hydrocarbon Content	100 ppm
Max. Inlet Air Dewpoint	10°F (5°C) above ambient
Pressure Drop at Max. Flow Rate	< 8 psid
Ambient Temperature	-4°F to 140°F (-20°C to 60°C)
Electrical Requirements	120/230 VAC, 60/50 Hz
Shipping Weight	17 lbs. (7.5 kg)
Dimensions	14" w x 9" h x 6" d (34 cm x 23 cm x 15 cm)

Ordering Information

Description	Model
Zero Air Generator	75-82EU
Replacement Catalyst Module	75398, 75398-220 (-220 model)
Final Filter Cartridge	13299
Optional Prefilter Assemblies	2002-1B1-BX
Installation Kit	IK76803

