

ZeroAir

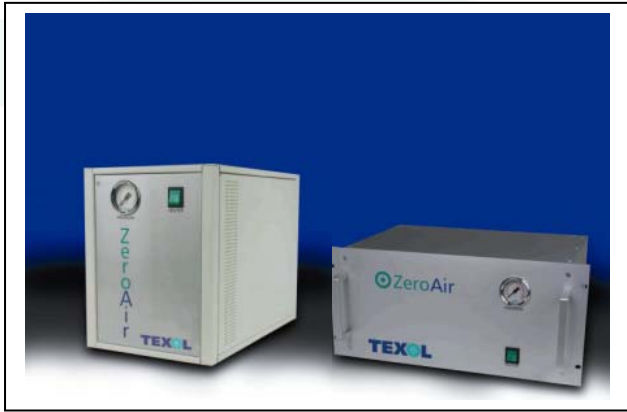


TEXOL
Products

Laboratory Gas Generators

ZeroAir

Texol's compact range of ZeroAir generators reduce hydrocarbon levels down to below 0.1ppm at flow rates up to 40 litres/min.



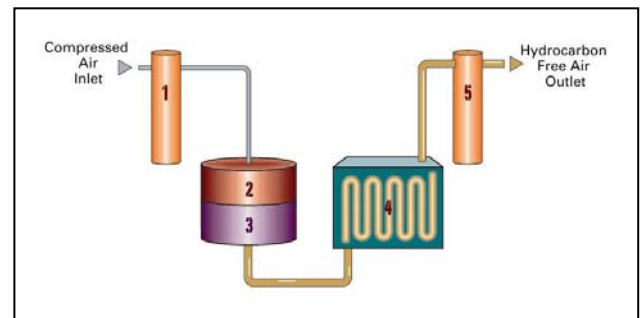
Overview

The ZeroAir range is designed for constant use within laboratories and other applications. They operate by using catalytic combustion of hydrocarbons in a source of compressed air with minimum power consumption and no moving parts.

The ZeroAir range introduces no impedance to the compressed air supply. The models are available in both benchmount and rack-mount versions and can be supplied with or without compressors.

Process Description

The ZeroAir generator uses catalytic conversion technology to allow the removal of hydrocarbons within a few minutes of start-up. The process is as follows: Compressed air is fed into the system through a filter [1], which removes particulates and bulk moisture via an autodrain. The air is passed over a low power heater element [2] before coming into contact with the catalytic converter [3]. At this point any hydrocarbons are combusted into trace levels of Carbon Dioxide and moisture. The now hydrocarbon-free air is passed through a cooler [4] to return the air to ambient temperature and allow the outlet filter [5] to work efficiently.



Features and Benefits

- Hydrocarbon-free air to < 0.1 ppm
- Flows up to 40 litres/min
- High Performance catalytic technology
- Rapid Start-up
- Output Pressure to 147 PSI (10 Bar)
- Benchmount and Rackmount Options
- Optional Compressor
- Low power requirement
- Easy Installation
- Simple maintenance

Typical Applications

- GC-NPD
- GC-FPD, Flame Support Air
- GC-FID, Flame Support Air
- Emissions Analyser

Technical Specifications

Model	ZA1	ZA2	ZA4	ZA8	ZA16	ZA24	ZA32	ZA40
Flow (Litres/min)	1	2	4	8	16	24	32	40
Purity	Total Hydrocarbon content < 0.1 ppm							
Dewpoint (C PDP)	-10							
Pressure (Barg/PSIg)	From 1 / 14.7 to 10 / 147							
Method	Heated Ceramic Catalyst: $\text{CH}_4 + 2 \text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$							
Start-Up Time (min)	3							
Electrical (VAC/Hz)	230 / 50 or 110 / 60							
Power	ZA units are only powered for 1 minute in each 5 minute period, resulting in low kilowatt hours consumption							
Benchmount								
Depth (mm / ins)	450 / 17.7	450 / 17.7	450 / 17.7	450 / 17.7	450 / 17.7	450 / 17.7	450 / 17.7	450 / 17.7
Height (mm / ins)	303 / 11.9	303 / 11.9	303 / 11.9	303 / 11.9	303 / 11.9	303 / 11.9	303 / 11.9	303 / 11.9
Width (mm / ins)	9 / 19.8	9 / 19.8	9 / 19.8	9 / 19.8	9 / 19.8	9 / 19.8	10 / 22	10 / 22
Weight (kg / lbs)	9 / 19.8	9 / 19.8	9 / 19.8	9 / 19.8	9 / 19.8	9 / 19.8	10 / 22	10 / 22
Rackmount								
Depth (mm / ins)	340 / 13.4	340 / 13.4	340 / 13.4	340 / 13.4	340 / 13.4	340 / 13.4	340 / 13.4	340 / 13.4
Height (mm / ins)	5U	5U	5U	5U	5U	5U	6U	6U
Width (mm / ins)	482.6 / 19	482.6 / 19	482.6 / 19	482.6 / 19	482.6 / 19	482.6 / 19	482.6 / 19	482.6 / 19
Weight (kg / lbs)	10 / 22	10 / 22	10 / 22	10 / 22	10 / 22	10 / 22	11 / 24.2	11 / 24.2
Connection Ports In/Out	Output – Female 1/4" Rc : Input – Female 1/4" Rc : Suitable for BSPT, PT, R & Unithread							

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