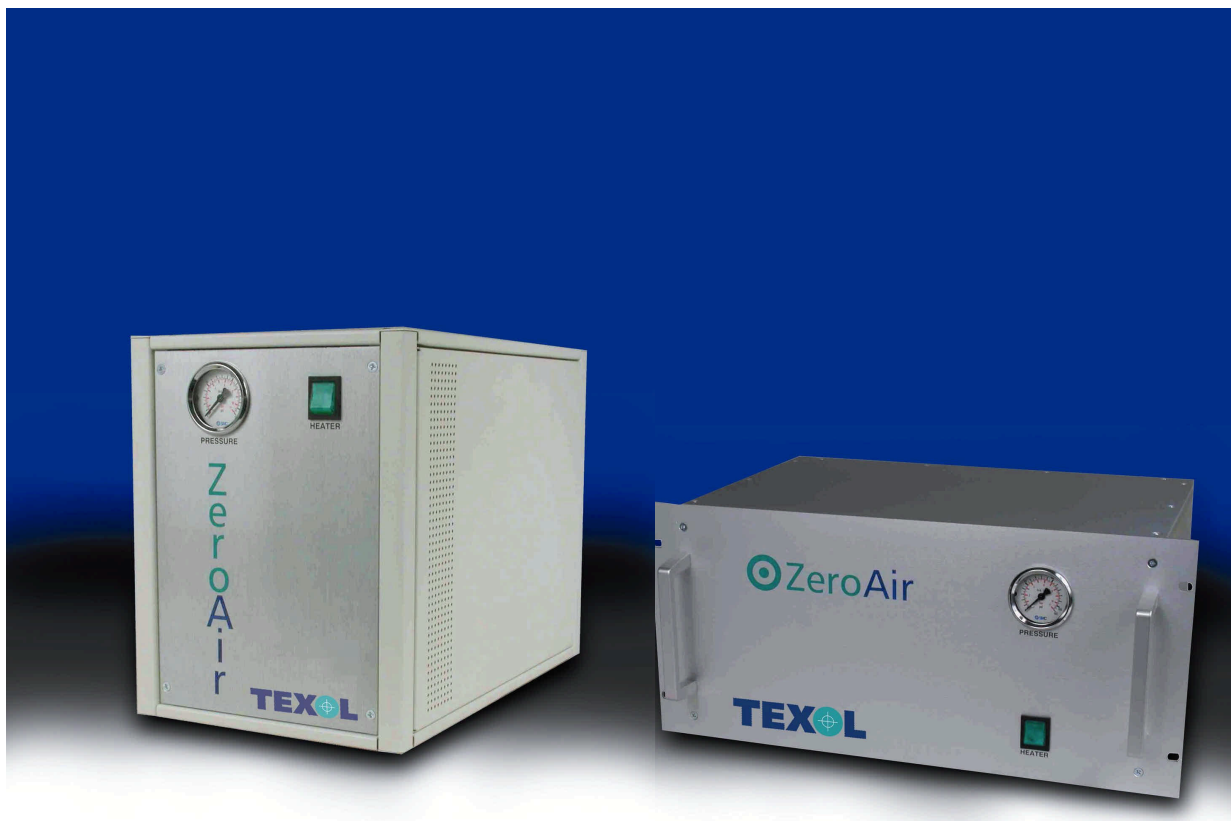


# ZeroAir



**TEXOL**  
Products

**HRM**alytic [www.chromtech.net.au](http://www.chromtech.net.au) [sales@chromtech.net.au](mailto:sales@chromtech.net.au)  
ABN 14 643 445 058 **PTY LTD** Tel: (03) 9762 2034 Fax: +61 3 9761 1169  
Australian Distributors: **TECH**nology . . . for ALL Your chromatography supplies !

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.



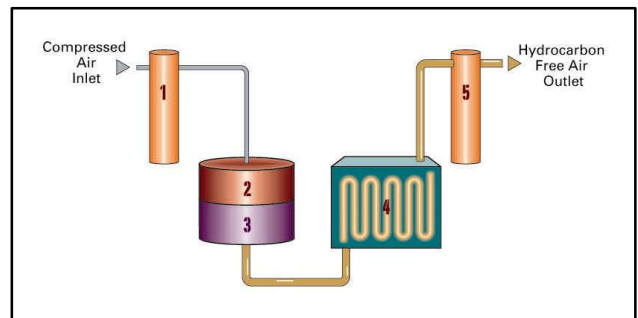
## Overview

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 bench-mount 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 convertor [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: CH <sub>4</sub> + 2 O <sub>2</sub> → CO <sub>2</sub> + 2H <sub>2</sub> 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							
<b>Benchmark</b>								
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)	233 / 9.2	233 / 9.2	233 / 9.2	233 / 9.2	233 / 9.2	233 / 9.2	233 / 9.2	233 / 9.2
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
<b>Rackmount</b>								
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 ¼" Rc : Input – Female ¼" Rc : Suitable for BSPT, PT, R & Unithread							

## Contact Details

Chromalytic Technology Pty Ltd

Tel: +61 (3) 9762 2034

Email: info@chromtech.net.au

Web: www.chromtech.net.au