



Mayura Analytical LLP

Specialists in Analytical Instrumentation

Formerly, MAYURA ANALYTICAL PRIVATE LIMITED (Registration No. U85110KA1991PTC011863) converted into LLP w.e.f. 11th January 2016 vide LLPIN: AAF-4682

Zero Air Generator

*Mayura Analytical LLP is a leading organisation in analytical instrumentation that provides solutions to research institutions and industries to diagnose and resolve their analytical needs. Our pioneering products are made in India for the Indian market and beyond since our inception in 1984. We are widely acknowledged for our approach to chemical analysis and to customer troubleshooting. As recognised suppliers of analytical equipment to the **Indian Institute of Science (IISc), Bangalore and Indian Institute of Technology (All India)**, preeminent research and technology institutions of India as well as large industries such as **BIOCON**, we have cemented our standing in the market with our cutting edge expertise and solution focussed approach.*

What is a Zero Air Generator?

A Zero Air Generator produces 'pure air', which means it produces air in its natural composition without any impurities such as Methane, Carbon Monoxide, Carbon Dioxide and other hydrocarbons. Such generators are primarily used for Gas Chromatography and TOC.

The Mayura Analytical Zero Air Generator is unique in its **Pure Air Production**. It has a special technique of Pressure Swing Adsorption (PSA), which is used in Pure Oxygen and Nitrogen Production. We have incorporated this technology to achieve outstanding results with our Zero Air Generator.

The Zero Air Generator flushes out all impurities through a backward flush during each pressure swing to clear out the columns. We have a twin column auto flushing mechanism to ensure impurities such as Methane, Carbon Monoxide, Carbon Dioxide and other hydrocarbons do not enter the system. Also, in addition, a catalytic converter has been added to oxidise any oxidisable species to further ensure high purity. This specially designed size sieving technique makes our equipment extremely unique.



Chemlabs is an associate firm of Mayura Analytical LLP

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Features

- The Zero Air Generator uses a unique pressure sweep technology to achieve high purity
- As a result, the generator produces ultra pure air
- It sweeps out all impurities before the air comes into contact with the catalytic oxidiser
- It also enriches the Oxygen content in the output
- It is very economical to operate and maintain
- Available from 1 litre to 10 litre output capacity
- With output pressure of 0-4 Bar
- Compact, table top unit
- It requires compressed air from an oil free compressor as input
- It stores 2 litres of purified air internally

Specifications

- Pressure : 0 - 4 kg / cm²
- Output Flow : 5 litres / min (max)
- Input pressure : 0 - 100 PSI
- Total Hydrocarbon content : Less than 1 PPM
- Phthalate free, Heated Catalytic Oxidiser
- Built-in features
 - Air storage tank
 - Temperature controller
 - Output and Input gas regulation with gauge indication
- External replaceable Carbon Dioxide / Moisture Trap Hydrocarbon Traps for gas polishing

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