

## ZERO AIR GENERATORS

### GC Plus Series



VICI DBS GC Zero Air Generators are designed to supply ultrapure hydrocarbon-free zero air for GC-FID applications. Catalytic oxidation technology eliminates hydrocarbons to  $<0.1\text{ppm}$ , resulting in a flat, stable baseline, increased sensitivity, and repeatable analysis.

#### GC ZERO SERIES FEATURES

- ✓ Flow rate from 1.5 to 30 l/min
- ✓ Pressure up to 6.5 bar (95 psig)
- ✓ Zero air purity  $<0.1\text{ppm}$  HC
- ✓ Minimal maintenance

#### BENEFITS

- ✓ **BETTER DETECTOR PERFORMANCE**  
The reduction of carbon monoxide and hydrocarbons (including methane) to  $<0.1\text{ ppm}$  decreases the background noise level and gives the baseline much better stability, increasing detector sensitivity considerably and ensuring precise analytical results.
- ✓ **LAB SAFETY**  
No more bottles in the lab and expensive pipelines for air distribution.

#### EASY INSTALLATION

Just connect a suitable oil-free compressor  
To save bench space, the unit can be easily wall-mounted.

#### OPERATING PRINCIPLE

Zero Air Generators use three steps to transform ambient air into analytical grade air.

##### **STEP 1: PRE-FILTRATION**

An external oil-free compressor delivers air through a high efficiency filter that traps any particles that may damage the system. The filter, which has an automatic purge system, traps oil, water, and any particles larger than 5 microns in size.

##### **STEP 2: HC AND CO TRAPPING**

The air leaving the filter enters a high temperature platinum catalyzer, which eliminates hydrocarbon molecules down to  $<0.1\text{ ppm}$  through oxidation.

##### **STEP 3: FINAL FILTRATION**

A final pass through a high-efficiency filter prevents any kind of particles from entering the instrument.

#### SAVE MONEY

All that the unit requires is a connection to a suitable oil-free compressor and the mains. Typically the investment is recovered in less than a year. **need to repeatedly change the bottles.**

## Specification GC Plus Zero Air Series

Models	GC1500	GC3000	GC6000	GC15000	GC30000
Flow l / min.	1.5	3	6	15	30
Weight (kg)	5	11	11	13	13
Power Watt	200	550	550	550	550
Hydrocarbons	<0.1 ppm				
CO	<0.1 ppm				
Inlet Air Quality	Clean dry compressed air ISO8573-1:2010 Class 3.2.2				
Max CO in	50 ppm				
Max HC in	100 ppm				
Technology	Platinum catalyst				
LED indicator	Power on/off, System ready, errors				
Inlet pressure	4.5-10 bar				
Outlet pressure	1 bar drop from inlet pressure				
Warm up time	45 min.				
In / out connections	1/4–1/8 (NPT)				
Product dimension	550W x 410H x 250D				
Shipping dimension	650W x 390H x 560D    Weight 17 Kg				
Power	110-120V 60Hz / 220-240V 50Hz				
Operating temperature	from 15 to 35°C.				
Certification	CE, MET, FCC				