GC PLUS RACK
ZERO AIR GENERATOR

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DESCRIPTION

The VICI DBS® GC Plus Rack Zero Air Generator utilizes compressed air that is prefiltered to 5 microns and then purified using a state of the art combined heated catalyst module. The output zero grade air is free from total hydrocarbons to <0.1 ppm, making it ideal for all FID applications. This purity level (measured as methane) produces a low signal to noise ratio, ensuring a flat and stable analyzer baseline.

With no moving parts and silent operation, the generator is extremely reliable and can be installed directly in the laboratory. With flow rates up to 30 L/min one system can support up to 75 FIDs. With short pay back time, minimal maintenance and operator attention they are an ideal addition to any analyzer application.

INCREASE EFFICIENCY

A constant gas supply with a guaranteed purity, eliminates interruptions of analysis to change cylinders and reduces the amount of instrument re-calibrations required.

IMPROVE SAFETY

Zero air produced at low pressure and ambient temperature, removes the need for high pressure cylinders.

RETURN ON INVESTMENT

Payback period can be as short as 6 to 12 months.

ENHANCE PERFORMANCE

DETECTOR:
The reduction of hydrocarbons, including methane to <0.1 ppm decreases the background noise level and gives the baseline much better stability, considerably increasing detector sensitivity and ensuring precise analytical results.

INSTRUMENT:
Gas generators can be installed close to the instrument, eliminating the need for long gas lines from external cylinder supplies. A constant guaranteed high purity gas supply improves stability and ensures greater reproducibility of results.

FEATURES

Produces a continuous supply of zero grade air | On-demand supply 24/7 | Flow rate: 1 to 30 L/min | Purity: <0.1 ppm THC | Pressure: 4.5 to 10 barg (45 to 145 psig) | Proprietary platinum catalyst technology | 2-year complete product warranty | Easy to install, operate and maintain

BENEFITS

Eliminates dangerous high pressure cylinders helping to keep your employees safer | Removes the logistics, inconvenience, downtime and costs of a cylinder system | Ideal for all destructive GC detector applications - stable baseline with increased sensitivity and reputability | Meets and exceeds the requirements for the most demanding analyzers | Superior air purification with long life catalyst technology | Peace of mind | Improve your laboratory work flow and productivity

APPLICATIONS

ANALYZER APPLICATIONS

- Online GC-FID
- Mud logging
- Total Hydrocarbon Analyzer (THA) detector gas

OPERATING DIAGRAM

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

STEP 1: PRE-FILTRATION

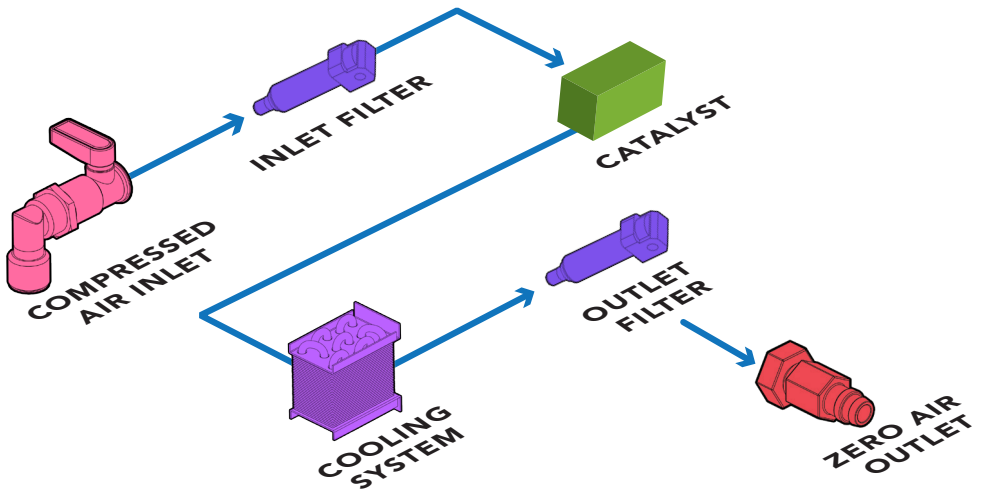
The external oil-free compressor delivers air through a high efficiency filter that removes any particles that may damage the system. The filter has an automatic purge system, and removes oil, water and any other particles larger than 5 microns in size.

STEP 2: HC AND CO REMOVAL

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

STEP 3: FINAL FILTRATION

A high-efficiency filter is used to prevent any kind of particles from entering the instrument.



MODELS & SPECS

	GC PLUS 1800 RACK	GC PLUS 5000 RACK	GC PLUS 10000 RACK	GC PLUS 15000 RACK
Flow mL/min*	1800	5000	10000	15000
Purity - hydrocarbons	<0.1 ppm			
Purity - CO	<0.1 ppm			
Inlet pressure barg (psig)	4.5 to 10 (65 to 145)			
Inlet air quality	Clean dry compressed air ISO8573-1:2010 Class 1.2.1			
Max outlet pressure barg (psig)	1 barg (15 psig) drop from inlet			
Max HC in	100 ppm			
Max CO in	50 ppm			
Technology	Platinum catalyst			
LED indicators	Power on/off, system ready, errors			
Warm up time (minutes)	45			
Electrical supply	110-120V 60Hz / 220-240V 50Hz			
Power consumption (watts)	200	550	550	550
Dimensions mm (inches)	19"W x 3UH x 500D (19"W x 3UH x 19.6D)			
Weight kg (lbs)	15 (33)			
Shipping dimensions mm (in)	720W x 565H x 375D (28.3W x 22.2H x 14.7D)			
Shipping weight kg (lbs)	19 (42)			
Operating temp °C (°F)	15 to 35 (59 to 95)			
Inlet connection	1/4" Compression			
Outlet connection	1/8" Compression			
Certification	CE, FCC, MET (UL and CSA compliant)			

1.8 and 5 L/min versions also available with integral compressor

ORDERING INFORMATION (for best service, please call to discuss your application before placing your order).

GC PLUS 1800 RACK

DB-RGC1800-EU 230-240V/50-60Hz
DB-RGC1800-US 100-110V/60Hz

GC PLUS 5000 RACK

DB-RGC5000-EU 230-240V/50-60Hz
DB-RGC5000-US 100-110V/60Hz

GC PLUS 10000 RACK

DB-RGC10000-EU 230-240V/50-60Hz
DB-RGC10000-US 100-110V/60Hz

GC PLUS 15000 RACK

DB-RGC15000-EU 230-240V/50-60Hz
DB-RGC15000-US 100-110V/60Hz