GT PLUS ULTRA
ZERO AIR GENERATOR

VICI|DBS®

LABO AND CO
your experience®

ULTRA ZERO AIR
GENERATOR

VICI
DBS

POWER

CHECK SYSTEM

WARNING (FLASHING)
CHECK PRESSURE

READY

DESCRIPTION

The VICI DBS® GT Plus Ultra Zero Air Generator utilizes compressed air that is purified using a five step conditioning process. The output zero air is free from THC, CO, CO2, NOx, SOx, Ozone and water vapor, making it ideal for all analyzer, TOC, and specialist detector applications.

There are no moving parts making the generator extremely reliable and ideal to be installed directly in the laboratory or online. With flow rates up to 30 L/min one system can support multiple analyzers. With short pay back times, minimal maintenance and operator attention they are an ideal addition to provide gas to your analyzer.

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
Ultra 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
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 dry ultra zero grade air | On-demand supply 24/7 | Flow rate: 1 to 30 L/min | Purity: Free from THC, CO CO2, O3, NOx & SOx | Pressure: 4.5 to 10 barg (65 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 | Flow capacity to match your specific instrument demands | Meets and exceeds the requirements for the most demanding analyzers | Low pressure relative to cylinders | Superior air purification with long life catalyst technology | Peace of mind | Improve your laboratory work flow and productivity

APPLICATIONS

ANALYZER APPLICATIONS

- CEM continuous emissions monitoring
- CO2 Analyzers
- Emissions Analyzers
- Online and Laboratory TOC
- Stack Gas Sampler
- Online and Laboratory FT-IR

OPERATING DIAGRAM

Ultra-Zero Air generators use five steps to transform ambient air into analytical grade air.

STEP 1: PRE-FILTRATION

The external air supply is prefiltered by high efficiency coalescing filters to remove water, oil and particulate.

STEP 2: DRYING & TRAPPING

The self regenerative PSA drying module removes water vapor and CO2.
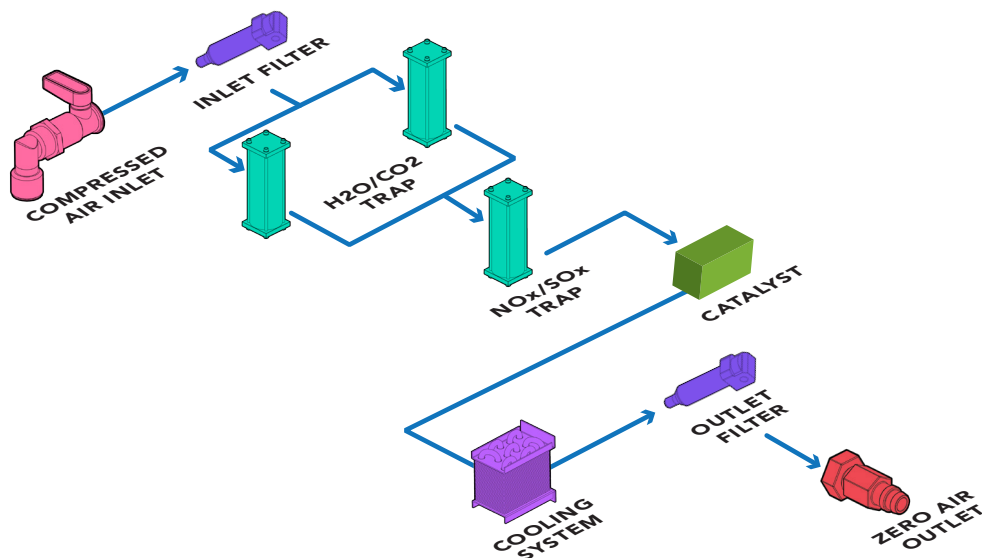
STEP 3: NOx, SOx & O3

A unique, specifically designed scrubber removes NOx & SOx and Ozone.

STEP 4: HC & CO TRAPPING

The air leaving the filter enters a high-temperature platinum catalyzer, which through oxidation eliminates THC and CO.

STEP 5: FINAL FILTRATION

A high-efficiency polishing filter is used to ensure the exit zero air is free from all particulate.

MODELS & SPECS

MODELS & SPECS	GT PLUS 1500	GT PLUS 3000	GT PLUS 6000	GT PLUS 15000	GT PLUS 30000
Flow mL/min	1500	3000	6000	15000	30000
Purity - hydrocarbons	<0.1 ppm				
Purity - CO	<0.1 ppm				
Purity - CO2	<5 ppm				
Purity - NOx	<0.1 ppm				
Purity - SOx	<0.1 ppm				
Purity - O3	<0.1 ppm				
Dewpoint	-50 °C				
Inlet pressure barg (psig)	4.5 to 10 (65 to 145)				
Outlet pressure barg (psig)	1 (15) drop from inlet				
Inlet air quality	Clean dry compressed air ISO8573-1:2010 Class 1.2.1				
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)	220	565	565	565	565
Dimensions mm (in)	550W x 410H x 230D (21.6W x 16H x 9D)			630W x 470H x 310D (24.8W x 18.5H x 12.2D)	
Weight kg (lbs)	10 (22)	15 (33)	15 (33)	25.5 (56)	25.5 (56)
Shipping dimensions mm (in)	650W x 390H x 560D (25.6W x 15.3H x 22D)				
Shipping weight kg (lbs)	14 (31)	19 (42)	19 (42)	30 (66)	30 (66)
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)				

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

GT-1500 PLUS ULTRA

DB-NGT1500-EU	230-240V/50-60Hz
DB-NGT1500-US	100-110V/60Hz

GT-3000 PLUS ULTRA

DB-NGT3000-EU	230-240V/50-60Hz
DB-NGT3000-US	100-110V/60Hz

GT-6000 PLUS ULTRA

DB-NGT6000-EU	230-240V/50-60Hz
DB-NGT6000-US	100-110V/60Hz

GT-15000 PLUS ULTRA

DB-NGT15000-EU	230-240V/50-60Hz
DB-NGT15000-US	100-110V/60Hz

GT-30000 PLUS ULTRA

DB-NGT30000-EU	230-240V/50-60Hz
DB-NGT30000-US	100-110V/60Hz