

# HP TOWER ZERO NITROGEN GENERATOR

GC APPLICATIONS



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## DESCRIPTION

The VICI DBS® HP Tower Zero produces nitrogen by utilizing a combination of filtration and pressure swing adsorption (PSA) technology. Standard compressed air is filtered by high efficiency coalescing filters to remove all contaminants down to 5 micron. For ultra sensitive applications such as GC carrier and make-up gas, units also include the additional heated catalyst module to ensure hydrocarbons are removed to <0.1 ppm. The air then passes through two columns filled with a proprietary blended carbon molecular sieve (CMS) which adsorbs O<sub>2</sub>, CO<sub>2</sub> and moisture. These are desorbed to the atmosphere during the pressure swing cycle leaving a supply of ultra pure nitrogen.



### INCREASE EFFICIENCY

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



### IMPROVE SAFETY

Nitrogen 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 in the laboratory 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 high purity nitrogen | On-demand supply 24/7 | Flow rate: 200 to 4000 mL/min | Purity: up to +99.999% & <0.1 ppm THC | Pressure: up to 5 barg (75 psig) | Proprietary carbon molecular sieve technology | 2-year complete product warranty | Easy to install, operate and maintain



## BENEFITS

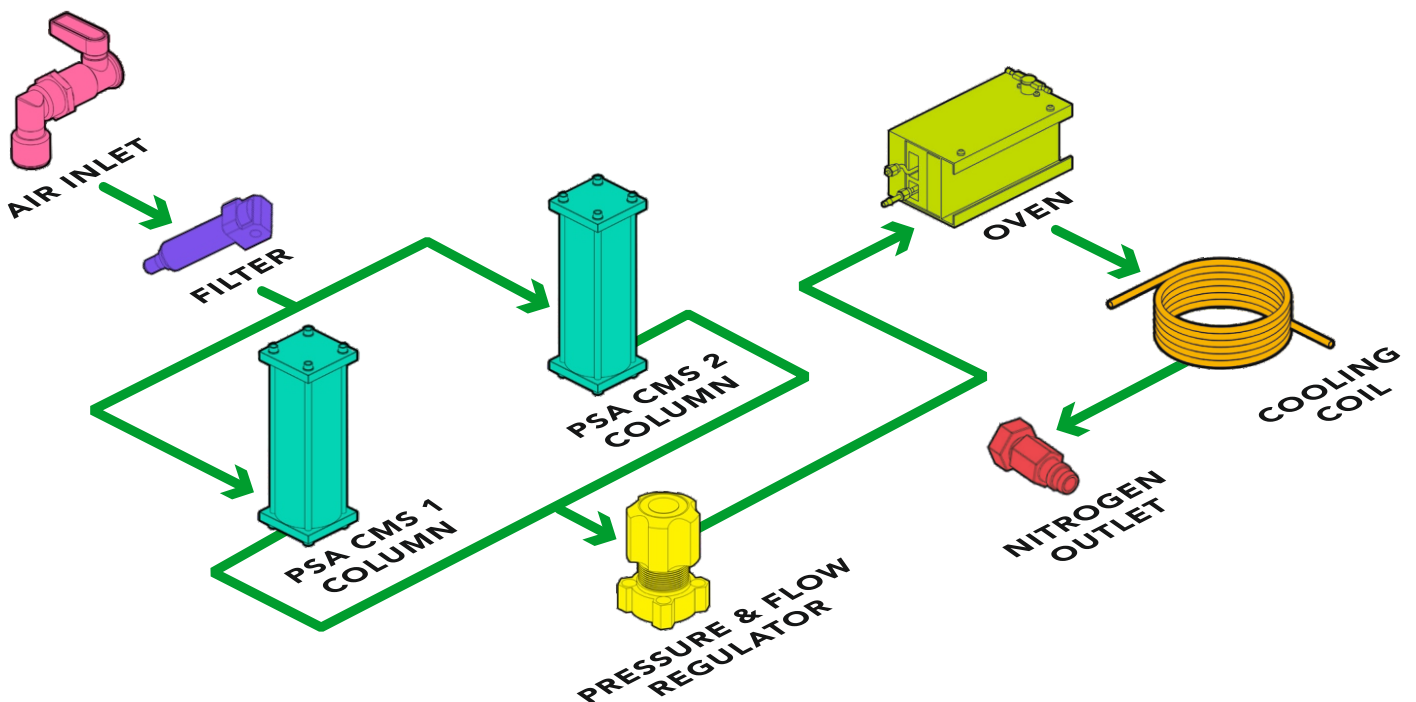
Eliminates dangerous high pressure cylinders helping to keep your employees safer | Removes the logistics, inconvenience, downtime and costs of a cylinder system | Flow capacity to match your specific instrument demands | Ideal for all GC applications - stable baseline with increased sensitivity and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



## APPLICATIONS

### GC APPLICATIONS

- GC carrier and make-up gas
- ECD
- ELSD
- Head space vial pressurization



## MODELS &amp; SPECS

	HP ZERO 200 HC	HP ZERO 500 HC	HP ZERO 750 HC	HP ZERO 1000 HC	HP ZERO 2000 HC	HP ZERO 4000 HC
Flow mL/min	200	500	750	1000	2000	4000
Purity	>99.999%					>99%
Hydrocarbon purity (measured as methane)	0.1 ppm					
Dewpoint °C (°F)	-50 (-58)					
Outlet pressure barg (psig)	Up to 5 max (75)					
Inlet pressure barg (psig)	7 to 10 (100 to 160)					
Actual inlet air requirement liters @ 8 barg (116 psig)	11	11	12	17	18	24
Recommended compressor air inlet @ 8 barg (116 psig)	22	22	24	34	32	48
Pressure drop barg (psig)	1.5 (22)					
Inlet air quality	Clean dry compressed air ISO8573-1:2010 Class 1.2.1					
Technology	Carbon molecular sieve					
Warm up time minutes	60					
LED indicators	Power on/off, system ready, errors					
Electrical supply	110-120V 60Hz / 220-240V 50 Hz					
Power consumption watts	270					
Noise level	Minimal					
Dimensions mm (in)	175W x 490H x 670D (6.9W x 19.3H x 26.4D)					
Weight kg (lb)	26.9 (59.3)					
Shipping dimensions mm (in)	770W x 410H x 590D (30.3W x 16.1H x 23.2D)					
Shipping weight kg (lb)	31.9 (70)					
Operating temp °C (°F)	15 to 35 (59 to 95)					
Inlet connection	1/4" Compression					
Outlet connection	1/8" Compression					
Certification	CE, FCC					

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

## HP ZERO 200 HC

DB-N2T-200-O-EU 220V/50Hz

DB-N2T-200-O-US 115V/60Hz

## HP ZERO 750 HC

DB-N2T-750-O-EU 220V/50Hz

DB-N2T-750-O-US 115V/60Hz

## HP ZERO 2000 HC

DB-N2T-2000-O-EU 220V/50Hz

DB-N2T-2000-O-US 115V/60Hz

## HP ZERO 500 HC

DB-N2T-500-O-EU 220V/50Hz

DB-N2T-500-O-US 115V/60Hz

## HP ZERO 1000 HC

DB-N2T-1000-O-EU 220V/50Hz

DB-N2T-1000-O-US 115V/60Hz

## HP ZERO 4000 HC

DB-N2T-4000-O-EU 220V/50Hz

DB-N2T-4000-O-US 115V/60Hz