

HP TOWER ZERO NITROGEN GENERATOR

MODELS & 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					

GC APPLICATIONS



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 500 HC

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

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

HP ZERO 750 HC

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

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

HP ZERO 1000 HC

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

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

HP ZERO 2000 HC

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

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

HP ZERO 4000 HC

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

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

North America & South America contact:

Europe, Asia, Africa, & Australia/Oceania contact:

VICI DBS USA

tel: +1 713-263-6970

fax: +1 713-263-6971

web: www.vicidbs.com

VICI AG INTERNATIONAL

tel: Int + 41 41 925-6200

fax: Int + 41 41 925-6201

web: www.vicidbs.com

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 O₂, CO₂ 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.



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.



IMPROVE SAFETY

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



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

