HP TOWER NITROGEN GENERATOR

VICI DBS
www.vicidbs.com

GENERAL LABORATORY APPLICATIONS

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DESCRIPTION

The VICI DBS® HP Tower 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. The air then passes through two columns filled with a proprietary blended carbon molecular sieve (CMS) which adsorbs O_2, CO_2 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

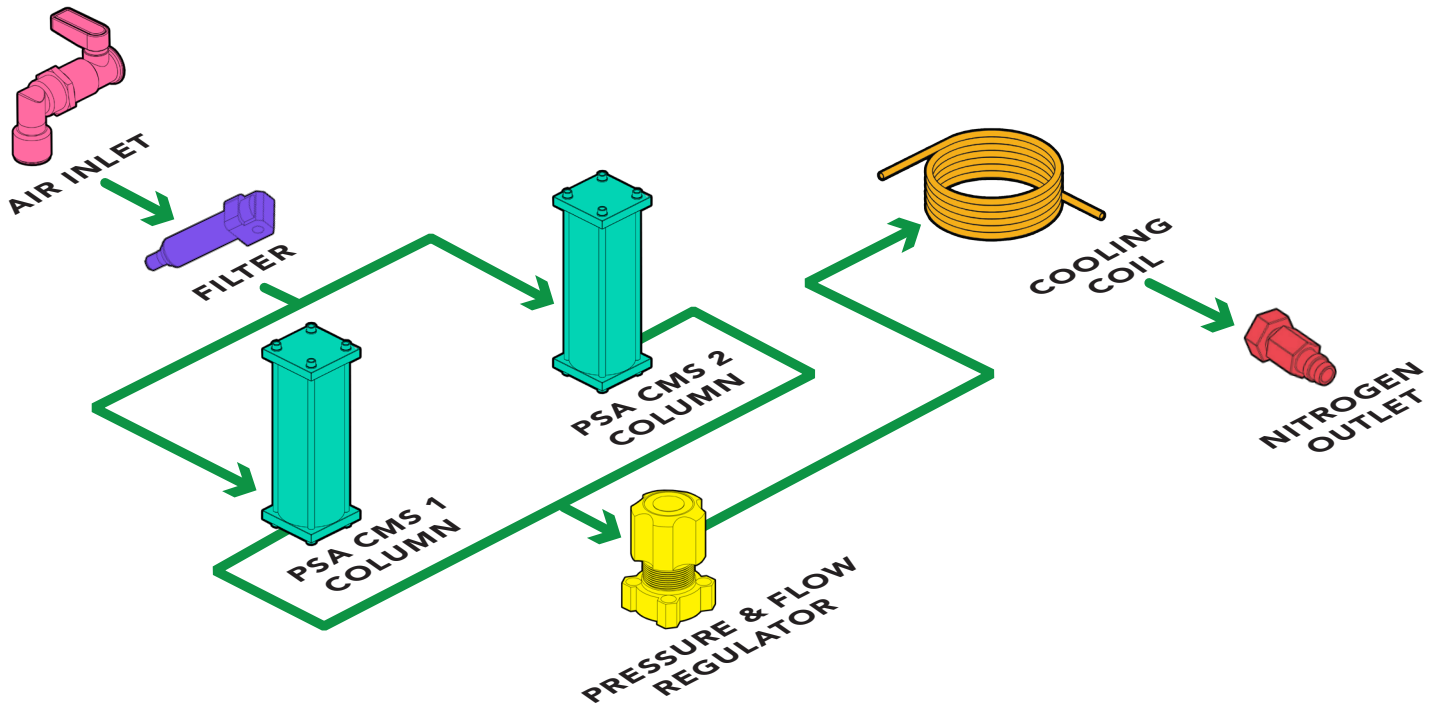
Produces a continuous supply of high purity nitrogen | On-demand supply 24/7 | Flow rate: 200 to 4000 mL/min | Purity: up to +99.999% & <0.1 ppm THC | Pressure: up to 5 barg (75 psig) | Proprietary carbon molecular sieve technology | 2-year complete product warranty | Easy to install, operate and maintain

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 | Peace of mind | Improve your laboratory work flow and productivity

APPLICATIONS

- TGA & DSC
- Incubators
- General lab use



MODELS & SPECS	HP 500	HP 750	HP 1000	HP 2000	HP 4000
Flow mL/min	500	750	1000	2000	4000
Purity	>99.999%				>99%
Hydrocarbon purity (measured as methane)	n/a				
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 litres @ 8 barg (116 psig)	11	12	17	18	24
Recommended compressor air inlet @ 8 barg (116 psig)	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	12				
Noise level	Minimal				
Dimensions mm (in)	175W x 490H x 670D (6.9W x 19.3H x 26.4D)				
Weight kg (lb)	25.5 (56)				
Shipping dimensions mm (in)	770W x 410H x 590D (30.3W x 16.1H x 23.2D)				
Shipping weight kg (lb)	30.5 (67)				
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 500
DB-N2T-500-EU 220V/50Hz
DB-N2T-500-US 115V/60Hz

HP 750
DB-N2T-750-EU 220V/50Hz
DB-N2T-750-US 115V/60Hz

HP 1000
DB-N2T-1000-EU 220V/50Hz
DB-N2T-1000-US 115V/60Hz

HP 2000
DB-N2T-2000-EU 220V/50Hz
DB-N2T-2000-US 115V/60Hz

HP 4000
DB-N2T-4000-EU 220V/50Hz
DB-N2T-4000-US 115V/60Hz