

# HP PLUS TOWER NITROGEN GENERATOR



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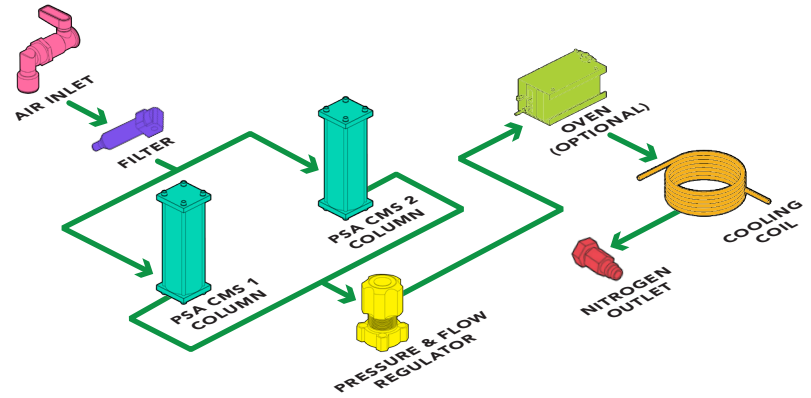
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## DESCRIPTION

The VICI DBS® HP Plus 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. 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.



### RETURN ON INVESTMENT

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



### IMPROVE SAFETY

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



### 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
- TGA & DSC
- Incubators



## MODELS & SPECS

	HP PLUS 500	HP PLUS 750	HP PLUS 1000	HP PLUS 1300	HP PLUS 4000
Flow mL/min	500	750	1000	1300	4000
Purity	>99.999%			>99.99%	>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 (psig)	11 (159.5)	12 (174)	17 (246.6)	16 (232.1)	24 (348.1)
Recommended compressor air inlet @ 8 barg (psig)	22 (319.1)	24 (348.1)	34 (493.1)	32 (494.1)	48 (696.2)
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)	24.5 (54)				
Shipping dimensions mm (in)	770W x 410H x 590D (30.3W x 16.1H x 23.2D)				
Shipping weight kg (lb)	29.5 (65)				
Operating temp °C (°F)	15 to 35 (59 to 95)				
Inlet connection	1/4" Compression				
Outlet connection	1/8" Compression				
Certification	CE, FCC				

**MODELS & SPECS**

	HP PLUS 200 HC	HP PLUS 500 HC	HP PLUS 750 HC	HP PLUS 1000 HC	HP PLUS 1300 HC	HP PLUS 4000 HC
Flow mL/min	200	500	750	1000	1300	4000
Purity	+99.999%				+99.99%	+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 (psig)	11 (159.5)	11 (159.5)	12 (174)	17 (246.6)	16 (232.1)	24 (348.1)
Recommended compressor air inlet @ 8 barg (psig)	22 (319.1)	22 (319.1)	24 (348.1)	34 (493.1)	32 (494.1)	48 (696.2)
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 PLUS 500**

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

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

**HP PLUS 1300**

DB-N2T-1300-EU 220V/50Hz

DB-N2T-1300-US 115V/60Hz

**HP PLUS 500 HC**

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

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

**HP PLUS 1300 HC**

DB-N2T-1300-O-EU 220V/50Hz

DB-N2T-1300-O-US 115V/60Hz

**HP PLUS 750**

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

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

**HP PLUS 4000**

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

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

**HP PLUS 750 HC**

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

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

**HP PLUS 4000 HC**

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

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

**HP PLUS 1000**

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

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

**HP PLUS 200 HC**

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

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

**HP PLUS 1000 HC**

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

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