

HP PLUS TOWER NITROGEN GENERATOR

VICI | DBS[®]
www.vicidbs.com



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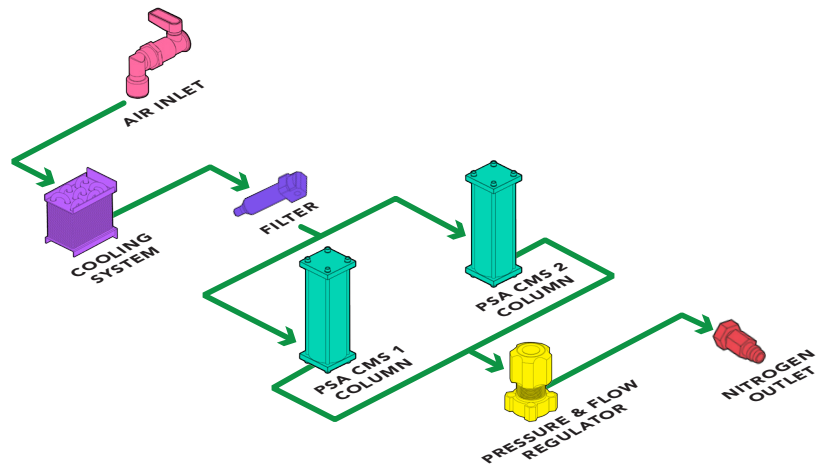
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DESCRIPTION

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 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.



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 1300	HP PLUS 4000
Flow mL/min	500	750	1300	4000
Purity	>99.999%		>99.99%	>99%
Hydrocarbon purity (measured as methane)	n/a			
Dewpoint	-50 °C			
Outlet pressure barg (psig)	up to 5 max (75)			
Inlet pressure barg (psig)	7 to 10 (100 to 160)			
Actual inlet air requirement litres - at 8 barg	11	12	16	24
Recommended compressor air inlet - at 8 barg	22	24	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 (inches)	140W x 490H x 630D (13.7W x 29H x 13.7D)			
Weight kg (lbs)	15 (17.6)			
Shipping dimensions mm (in)	770W x 590H x 410D (30.3W x 16.1H x 23.2D)			
Shipping weight kg (lbs)	20 (44)			
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)			

MODELS & SPECS

	HP PLUS 200 HC	HP PLUS 500 HC	HP PLUS 750 HC	HP PLUS 1300 HC	HP PLUS 4000 HC
Flow mL/min	200	500	750	1300	4000
Purity	>99.999%			>99.99%	>99%
Hydrocarbon purity (measured as methane)	0.1 ppm				
Dewpoint	-50 °C				
Outlet pressure barg (psig)	Up to 5 max (75)				
Inlet pressure barg (psig)	7 to 10 (100 to 160)				
Actual inlet air requirement liters - at 8 barg	11	11	12	16	24
Recommended compressor air inlet - at 8 barg	22	22	24	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 (inches)	140W x 490H x 630D (13.7W x 29H x 13.7D)				
Weight kg (lbs)	17 (44)				
Shipping dimensions mm (in)	770W x 590H x 410D (30.3W x 16.1H x 23.2D)				
Shipping weight kg (lbs)	22 (49)				
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)				