HP PLUS TOWER NITROGEN GENERATOR

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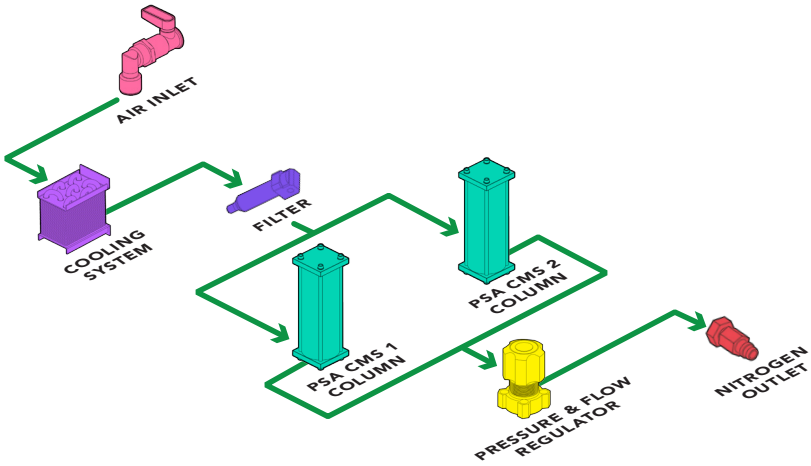
DESCRIPTION

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.

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
- 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)				

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

HP PLUS 1300
DB-N2T-1300-EU 220V/50Hz
DB-N2T-1300-US 115V/60Hz

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

HP PLUS 200 HC
DB-N2T-200-O-EU 220V/50Hz
DB-N2T-200-O-US 115V/60Hz

HP PLUS 500 HC
DB-N2T-500-O-EU 220V/50Hz
DB-N2T-500-O-US 115V/60Hz

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

HP PLUS 1300 HC
DB-N2T-1300-O-EU 220V/50Hz
DB-N2T-1300-O-US 115V/60Hz

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