# HP PLUS TOWER NITROGEN GENERATOR

VICI DBS


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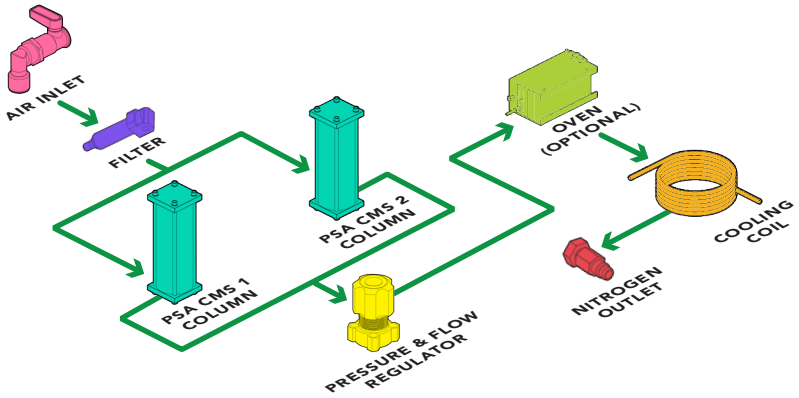
gaslabo
*more than safe and accurate*

## 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 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) |
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| 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 750
**DB-N2T-750-EU** 220V/50Hz
**DB-N2T-750-US** 115V/60Hz

### HP PLUS 1000
**DB-N2T-1000-EU** 220V/50Hz
**DB-N2T-1000-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 1000 HC
**DB-N2T-1000-O-EU** 220V/50Hz
**DB-N2T-1000-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