

HP Tower Nitrogen

140W x 490H x 630D (13.7Wx 29H x 13.7D)



HP TOWER NITROGEN GENERATOR

With the HP Tower Nitrogen Generator, Nitrogen is produced 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 0.1 ppm.

For ultra sensitive applications such as GC -FID and GC -ECD, 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 carbon molecular sieve (CMS) which adsorbs O₂, CO₂ and moisture. These are desorbed to atmosphere during the pressure swing cycle leaving a supply of ultra pure nitrogen.

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APPLICATIONS

- GC-FID CARRIER & MAKE UP GAS
- ECD
- ELSD
- TGA & DSC
- INCUBATORS

FEATURES

- Produces a continuous supply of high purity nitrogen
- On demand supply 24/7
- Flow rate from 500 to 4,000 m/min
- Purity up to 99.999% & <0.1ppm THC
- Pressure up to 5 bar
- Proprietary carbon molecular sieve
- 2 year complete product warranty
- Easy to install, operate and maintain

CONTROL

- Full microprocessor control
- LCD touch screen interface or push buttons: real time outlet pressure, water quality, autodiagnosics
- Leak detectors, water level and quality sensors
- Optimized powerful water pump for PEM cell

BENEFITS

INCREASE LAB 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 12 to 18 months

IMPROVE SAFETY

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

EASY MAINTENANCE

The only maintenance is facilitated by the deionizer bag access system. The system allow to change the deionizer bag without tools or power off the instrument.

ENHANCE INSTRUMENT 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.

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MODELS	HP PLUS 500	HP PLUS 750	HP PLUS 1300	HP PLUS 4000	HP PLUS 200 + HC REMOVAL	HP PLUS 500 + HC REMOVAL	HP PLUS 750 + HC REMOVAL	HP PLUS 1300 + HC REMOVAL	HP PLUS 4000 + HC REMOVAL
Flow ml/min	500	750	1300	4000	200	500	750	1300	4000
Purity	99.999%								
Dew Point	-50 oc								
Outlet pressure bar (psi)	up to 5 max (75)								
Inlet pressure bar (psi)	7 to 10 (100 to 160)								
Warm up time	60 minutes								
Power consumption watts	12				270				
Noise level	Minimal								
Product weight kg (lb.)	15 (17.6)				17 (44)				
Dimensions mm (inches)	140W x 490H x 630D (13.7Wx 29Hx 13.7D)								
Operating temp oC (oF)	15 to 35 (59 to 95)								
Shipping dimensions mm (inches)	770W x 590H x 410D (30.3Wx 16.1Hx 23.2D)								
Electrical supply	110-120V 60Hz / 220-240V 50Hz								
LED indicators	Power on / off, system ready, errors								
Actual inlet air requirements liters at 8 bar	11	12	16	24	11	11	12	16	24
Recommended compressor air inlet at 8 bar	22	24	32	48	22	22	24	32	48
Pressure drop bar (psi)	1.5 (22)								