WHISPER-0 & MINI WHISPER NITROGEN GENERATOR







North America & South America contact:

Europe, Asia, Africa, & Australia/Oceania contact:

VICI DBS USA

tel: +1 713-263-6970 fax: +1 713-263-6971 web: www.vicidbs.com

VICI AG INTERNATIONAL

tel: Int + 41 41 925-6200 fax: Int + 41 41 925-6201 web: www.vicidbs.com

DESCRIPTION

The VICI DBS° Whisper-0 nitrogen generator can produce up to 120 L/min of high purity LC/MS grade nitrogen at pressures up to 8 barg (116 psig). These generators are engineered to transform standard compressed air into a safe regulated nitrogen supply with minimal operator attention and maintenance. Nitrogen is produced by utilizing a combination of filtration and membrane separation technologies. A standard supply of compressed air is filtered by high efficiency coalescing filters to remove all contaminants down to 0.1 micron. A unique proprietary membrane then separates the air into a concentrated nitrogen stream.

Membrane technology offers many unique performance benefits for LC/MS users including phthalate free nitrogen, silent operation, no moving parts and no electrical requirements. The generators can be installed directly in the laboratory with the Whisper-0 mounting to the wall and the Whisper-0 Mini to the floor. Both require minimal operator attention or maintenance. The generators are designed to run continuously providing a clean, dry high purity nitrogen supply.



INCREASE EFFICIENCY

The relatively high gas volumes required by LCMS instruments make cylinder supply inappropriate and liquid nitrogen expensive. A constant, uninterrupted gas supply eliminates interruptions of analysis to change cylinders.



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 hazards associated with high pressure cylinders and liquid Dewars.



ENHANCE PERFORMANCE

Production of a constant flow and pressure of nitrogen improves the consistency of the LC/MS analysis, results and reproducibility.



SUPERIOR TECHNOLOGY

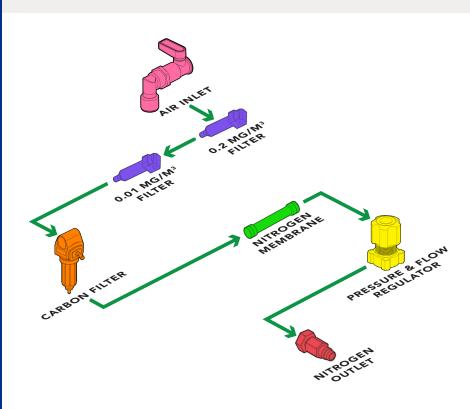
The VICI DBS membrane nitrogen generators require no electricity, have no moving parts and minimal noise.

OPERATING DIAGRAM

Membrane separation technique:

Compressed air is forced through a hollow fiber membrane, with selective permeation of the different components - nitrogen, oxygen, carbon dioxide, water vapor and traces of rare gases - depending on the rate of diffusion.

The rate of diffusion of nitrogen through the membrane is slower than the other components, which thus flow outside of the fiber membrane. Just nitrogen remains inside which is then subsequently discharged, ready for use.





FEATURES

Produces a continuous supply of high purity nitrogen | On-demand supply 24/7 | Flow rate at 8 barg (116 psig): 8 to 120 L/min | Purity: LC/MS grade | Integrated economy mode as standard | Proprietary membrane technology | 2-year complete product warranty | No noise, no moving parts and no electricity



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 LC/MS applications | Reduces compressed air consumption and cost | Superior air purification with long life membrane | Peace of mind | Install directly in the laboratory



APPLICATIONS

LC/MS INSTRUMENTS

- Nebulizing gas
- Curtain gas
- Shield gas
- Sheath gas
- Electrospray gas
- APCI gas
- Jet stream gradient

SPECTROSCOPY

Nuclear magnetic resonance spectrometers (NMR)

ANALYZERS

Thermal analyzers (TGA/DSC)

OTHER APPLICATIONS

- Sample concentrators
- Evaporative light scattering detector (ELSD)
- Corona detectors
- Charged aerosol (CAD)
- Sample evaporators
- Cell incubators
- **IVF Stem Cell incubators**

- Mask aligner
- Fume hood/cabinet purge
- 3D printer inerting
- Glove box purge



ORDERING INFORMATION (for best service, please call to discuss your application before placing your order).

MINI WHISPER
DB-MWN2-10

WHISPER 0-40
DB-WN2-0-40

WHISPER 0-80
DB-WN2-0-80

WHISPER 0-120
DB-WN2-0-120