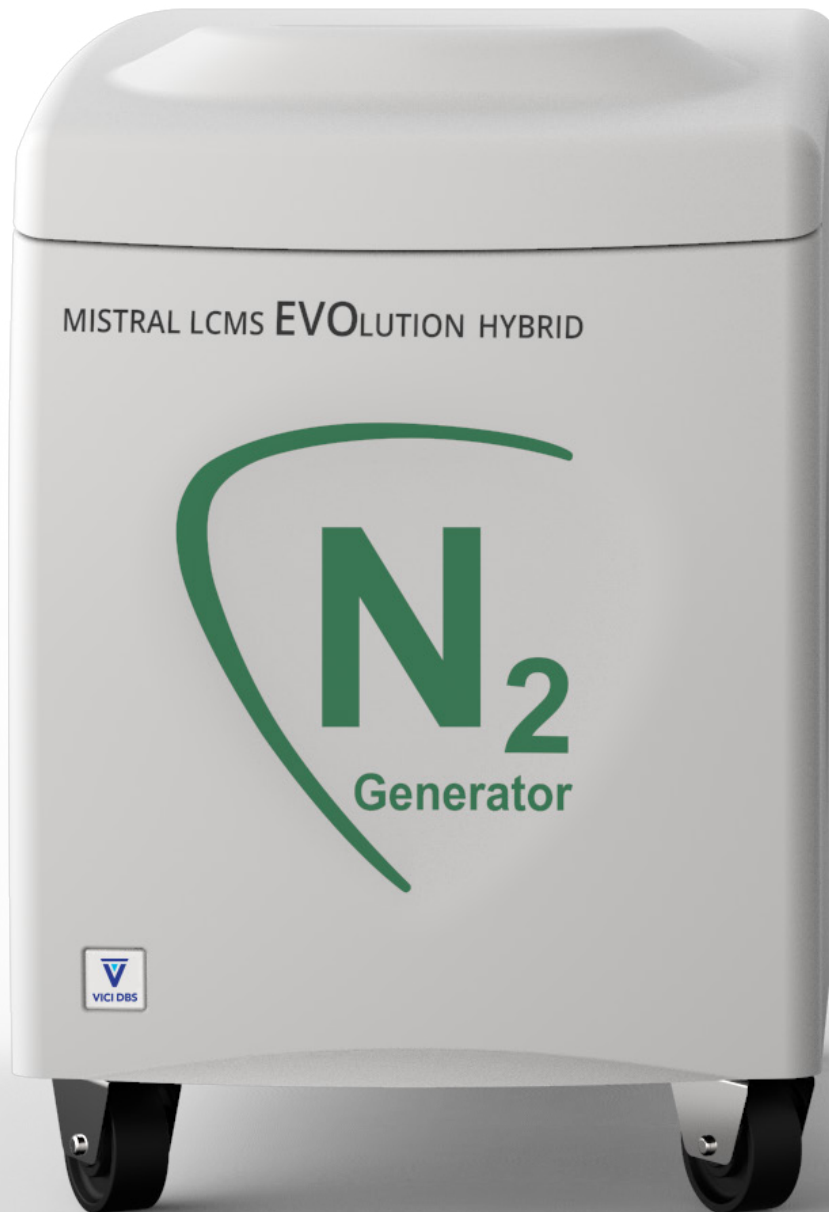


MISTRAL EVOLUTION HYBRID NITROGEN + AIR GENERATOR



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

DESCRIPTION

The VICI DBS® Mistral Evolution Hybrid is a self contained generator that produces up to 12 L/min of high purity nitrogen and 22 L/min of air. The generator is designed to meet the specific requirements of the Sciex LC/MS. Nitrogen is produced by utilizing a combination of compressor and Carbon Molecular Sieve (CMS) technology. High and low pressure compressors are carefully matched to the CMS demand to ensure quiet and reliable operation. This unique combination of dual compressor technology has several unique advantages over all other nitrogen generators commercially available.

Nitrogen is produced at low pressure, which ensures a longer compressor life and then compressed to 8 barg (116 psig) using a second stage compressor. This combination guarantees a long compressor life reducing maintenance costs and down time.



INCREASE EFFICIENCY

The relatively high gas volumes required by LC/MS/MS 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.



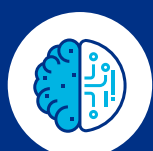
IMPROVE SAFETY

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 and air improves the consistency of the Sciex LC/MS analysis, results and reproducibility.



SUPERIOR TECHNOLOGY

The 2-stage pressure design allows the compressors to work at their optimum pressure range reducing the stress and results in extending the life time of the compressors. This reduces maintenance costs and associated downtime.





FEATURES

Produces a continuous supply of high purity nitrogen and air for Sciex LC/MS | On-demand supply 24/7 | Flow rate: 12 L/min of N₂ and 35 L/min of air | Purity: LC/MS grade | Integrated low noise oil free compressors | Proprietary carbon molecular sieve technology | 2-year complete product warranty | Complete "plug and play" LC/MS solution



BENEFITS

Eliminates dangerous high pressure cylinders helping to keep your employees safer | Removes the logistics, inconvenience, downtime and costs of cylinder and dewar systems | Flow capacity to match your specific instrument demands | Ideal for all Sciex LC/MS applications | Simple installation and operation | Superior air purification | Peace of mind | Install directly in the laboratory



APPLICATIONS

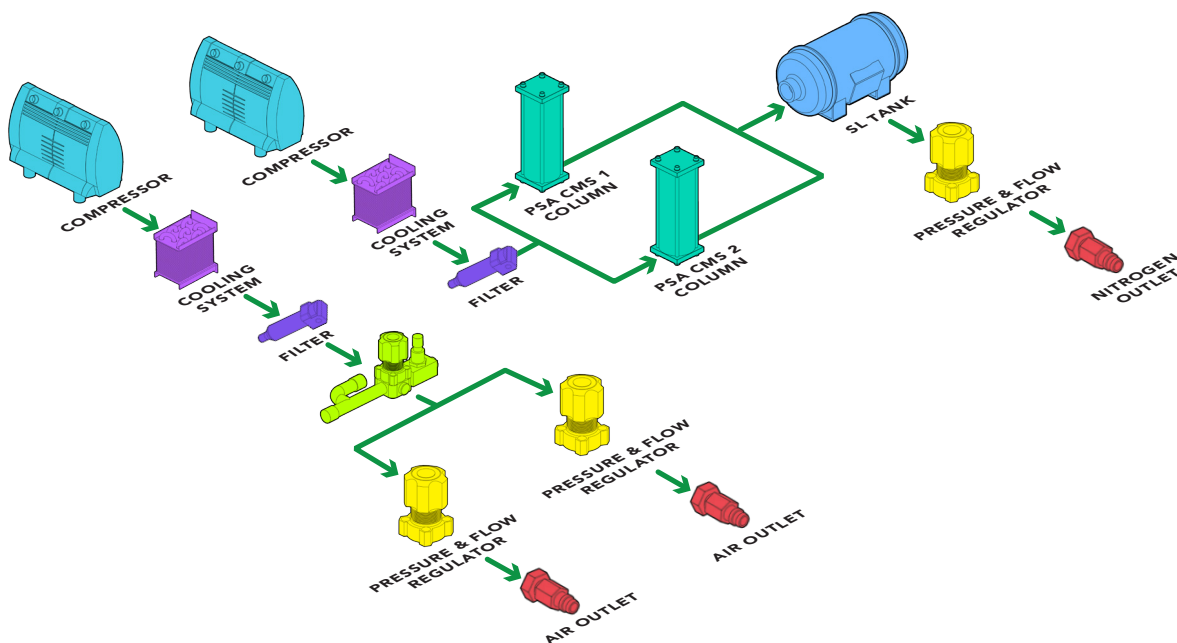
PRODUCTS FOR LC/MS

- Sciex LC/MS

OPERATING DIAGRAM

The Mistral Evolution Hybrid (PSA technology) includes two dynamically balanced oil-free air compressors and delivers a continuous stream of pure nitrogen gas for curtain gas and purified air for gas 1 gas 2 and source exhaust.

Each Mistral uses a pressure swing adsorption (PSA) system which removes oxygen, carbon dioxide and water from compressed air. The output is a stream of pure nitrogen with clean, dry purified air for Sciex LC/MS instruments.



MODELS & SPECS

| | MISTRAL EVOLUTION HYBRID |
|-----------------------------|------------------------------------------|
| Nitrogen flow rate L/min | 12 @ 5 barg (80 psig) |
| Air 1 - flow rate L/min | 8 @ 4 barg (60 psig) |
| Air 2 - flow rate L/min | 24 @ 7 barg (100 psig) |
| Nitrogen purity | +98% |
| Dewpoint °C (°F) | -50 (-58) |
| Outlet pressure barg (psig) | 7 (100) |
| Technology | Carbon molecular sieve |
| Warm up time (minutes) | 20 |
| Electrical supply | 110-120V 60Hz / 220-240V 50Hz |
| Power consumption (watts) | 1800 |
| Noise level | 55 dBA @ 1 meter |
| Dimensions mm (in) | 482W x 641H x 835D (18.9W x 25H x 33D) |
| Weight kg (lbs) | 90 (198) |
| Shipping dimensions mm (in) | 550W x 800H x 940D (21.6W x 31.4H x 37D) |
| Shipping weight kg (lbs) | 115 (254) |
| Operating temp °C (°F) | 15 to 35 (59 to 95) |
| Outlet connections | 3 x 6 mm OD Compression or 1/4" |
| Certification | CE, FCC, MET (UL and CSA Compliant) |

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

MISTRAL EVOLUTION HYBRID

| | |
|---------------------|-----------|
| DB-EVO-HY-EU | 220V/50Hz |
| DB-EVO-HY-US | 110V/60Hz |