

NITROGEN GENERATORS

Mistral Evolution series



The **Mistral Evolution 40 Nitrogen Generator** (PSA technology), which includes an integral oil-free air compressor, delivers a continuous stream of pure nitrogen gas of 97-99.5% at a flow rate of 10 to 40 N L/min. It uses the pressure swing adsorption (PSA) system that removes oxygen, carbon dioxide, and water from compressed air. The resulting stream of pure nitrogen is ideal for LCMS techniques and other inert gas applications.

APPLICATION

PRODUCTS FOR LC/MS INSTRUMENTS

Nebulizing Gas
Curtain Gas
Shield Gas
Sheath Gas
Electrospray Gas

APCI Gas

Jet Stream Gradient

OTHER LAB APPLICATIONS

Thermal Analyzers (TGA/DSC)
Nuclear Magnetic Resonance Spectrometers
Sample Concentrators
Evaporative Light Scattering Detector (**Elsd**)
Corona Detectors
Charged Aerosol (**Cad**)
Sample Evaporators
Cell Incubators

FEATURES

- ✓ Nitrogen Flow rate up to 40 Lt/min
- ✓ Nitrogen purity 97% to 99.5%
- ✓ Output Pressure up to 8 bar
- ✓ Proprietary carbon molecular sieve technology
- ✓ Complete 'plug and play' LC/MS solution

BENEFITS

- ✓ **LAB SAFETY**
Nitrogen produced at low pressure and room temperature eliminates the risks associated with high pressure gas bottles and the handling of liquid nitrogen.
- ✓ **COST SAVING**
The equipment cost is normally recovered in less than a year. In addition, no pipeline is required to carry gas from the storeroom to the lab

Specification MISTRAL EVolution

| MODELS | MISTRAL EVO 10 | MISTRAL EVO 25 | MISTRAL EVO 35 | MISTRAL EVO 40 |
|--------------------------|--------------------------------------|----------------|----------------|----------------|
| Flow L/min. | 10 | 25 | 35 | 40 |
| Weight (kg) | 90 | 90 | 90 | 90 |
| Purity | >99,5% | >99% | >99% | >98% |
| Dew Point | -50° C | | | |
| Outlet Pressure | 8 bar | | | |
| Technology | Carbon Molecular Sieve PSA | | | |
| Warm up time | 20 minutes | | | |
| LED Indicators | Power on / off, system ready, errors | | | |
| Noise level | 55 DB@1 mt. | | | |
| Outlet connection | 6mm OD compression | | | |
| Power requirements | 110-120V 60Hz / 220-240V 50Hz | | | |
| Power consumptions | 1800 W | | | |
| Operating Temperature | 15 to 35° C | | | |
| Product dimension (cm) | 48W x 83D x 64H | | | |
| Shipping dimensions (cm) | 55W x 94D x 80H Weight 115 Kg. | | | |
| Certification | CE, MET, FCC | | | |

The following option is available:

- 10 Liters tank