

NMG - 3000

Nitrogen Membrane Generators (LCMS)



►► **Features:**

- 99.7% Nitrogen
- Easy to use
- 4 pre-filtration stages
- Long life membrane
- Low cost of ownership
- Virtually maintenance free

►► **Applications :**

- LC-MS
- Gloveboxes
- Tank Purging
- Metal sparging
- HPLC

Nitrogen generators from ATL Instruments are designed with longevity in mind. The NMG series uses membrane technology to provide up to 99.7% nitrogen with a continuous, high flow rate.

Not all nitrogen generators are the same inside. All NMG series generators have three particle filters resulting in very low stress on the smallest. The hollow fibre membrane is designed and engineered by ATL Instruments.

Not all nitrogen generators are the same on the outside. All NMG generators feature flowmeter, gas inlet and outlet pressure, flow adjustment and shut-off valve on the front of the generator. Compare this ease of use to other manufacturers.

An integral compressor risks heat and/ or vibration and/or condensation affecting both the quality of the gas and the lifetime of the system. ATL Instruments approach is to use a remote compressor or in-house compressed air supply.

Low cost of ownership and minimal maintenance is the result. There are no moving parts and an occasional filter check/change is all that is required. Extended warranty agreements and expensive service contracts are a thing of the past.

The NMG series is available in 4 standard capacities designed to run one, two, four or six LC-MS instruments. Larger capacities are built on request.

Different fittings and outlets are available to make the nitrogen generator instantly compatible with the LC-MS. ATL Instruments nitrogen generators have been successfully installed on all leading manufacturer instruments.

| Features | NMG 3011 1 LC-MS | NMG 3022 ≤ 2 LC-MS | NMG 3033 ≤ 3 LC-MS | NMG 3044 ≤ 5 LC-MS | NMG 3068 on request |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Purity ¹⁾ | 99.7 % | 99.7 % | 99.7 % | 99.7 % | 99.7 % |
| Max Flow & Pressure | 30L/min 7-10bar | 70 L/min 7-10bar | 105 L/min 7-10bar | 120 L/min 7-10bar | 150 L/min 7-10bar |
| Pressure Drop | Max. 0.2 bar |
| Electrical Power Supply | None | None | None | None | None |
| Out-let & Pressure Regulator | Up to 3 | Up to 6 | Up to 9 | Up to 12 | Up to 15 |
| Dimensions (h x w x d) cm | 96x 40 x 40 | 120 x 40 x 40 | 120 x 40 x 40 | 120 x 40 x 40 | 120 x 40 x 40 |
| Weight (kg) | 32 | 43 | 49 | 56 | 65 |
| Connections N ₂ -Outlet ²⁾ | multiple out-lets ¼" or 6mm |
| Connections Air-Inlet ³⁾ | 10mm, others on request |

| Purity of Nitrogen | NMG 3011 | NMG 3022 | NMG 3033 | NMG 3044 | NMG 3068 |
|--------------------|----------------------------|----------|----------|----------|----------|
| | Flow rate in Sl/min | | | | |
| 99.7% | 11 | 22 | 33 | 44 | 68 |
| 99% | 12 | 30 | 45 | 60 | 88 |
| 98% | 17 | 42 | 65 | 84 | 125 |
| 97% | 23 | 52 | 84 | 104 | 145 |
| 96% | 28 | 67 | 103 | 120 | 150 |

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HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W: www.analycalgroup.net
www.hplctechnologies.com
www.multiplelabs.com
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