# STREAM

## Membrane Nitrogen Generator for LCMS

Reference : STREAM.[Flow rate]

## Description

The Membrane Nitrogen generator has been developed to meet specific requirements in terms of flow, purity and pressure for LC-MS applications. It can also be used for the evaporation of solvents in samples being analysed.

The simple high efficiency membrane technology allows the separation of nitrogen from the other components of the compressed air inlet.

## Applications

LC-MS | Sample evaporation | TURBOVAP

## Benefits & Savings

**IMPROVE LABORATORY EFFICIENCY**
The relatively high gas volumes required by LCMS instruments make cylinder supply inappropriate for such applications. A constant, uninterrupted gas supply eliminates interruptions of analyses to change cylinders.

**IMPROVE ANALYTICAL INSTRUMENTS PERFORMANCE**
Production of a constant flow of gas improves the consistency of the analysis results and hence reproducibility.

**IMPROVE ECONOMY**
- Quick return on investment < 1 year
- No gas cylinder rental bottles, no price inflation

**IMPROVE SAFETY**
Nitrogen produced at low pressure and ambient temperature removes the hazards associated with high pressure cylinders and liquid Dewar's

**SIMPLE INSTALLATION**
Gas generators can be installed in the laboratory, on or under a bench, eliminating the need for long gas lines from cylinders secured elsewhere. No power supply is require.

## Standard Features

- **Flow rate available: 40 to 260 L/min**
- **Low pressure loss: max 1 bar (14 psi)**
- **Wall mounted installation: save space in the lab**
- **No noise: no mechanical parts moving**
- **No need of electricity supply**
- **Low maintenance: only to replace the filters once per year**
- **Gas saving mode: the unit stops automatically when nitrogen is not required**

N2

| MODELS | STREAM.40 | STREAM.80 | STREAM.120 |
|---|---|---|---|
| **GENERALS INFORMATIONS** | | | |
| **Max Flow rate** | 40 to 140 L/min | 80 to 220 L/min | 120 to 260 L/min |
| **Purity** | Up to 99% | | |
| **Max outlet pressure** | 7 bar (101 psi) | | |
| **Pressure loss** | < 0.8 bar (12 psi) | | |
| **Air inlet pressure Min./ Max.** | 5 - 13 bar (72 - 188 psi) (see correction factor) | | |
| **N2 dewpoint at operating pressure** | -40°C (-40°F) | | |
| **Particles** | < 0.01 ppm | | |
| **Air flow rate required @ 8 bar (116 psi)** | 140 L/min | 280 L/min | 420 L/min |
| **Air loss for regeneration** | 15 L/min | 28 L/min | 56 L/min |
| **Temperature range** | 10 - 35°C (50 - 95°F) | | |
| **Dimensions (W x H x D)** | 38 x 120 x 22.5 cm (15" x 47" x 9") | | |
| **Weight (kg/lbs)** | 22 / 48.5 | 26 / 57 | 30 / 66 |
| **CONNECTIONS** | | | |
| **Inlet/outlet** | 1/4 G | | |

| FACTOR OF CORRECTION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Pressure (bar)** | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| **Pressure (psi)** | 72 | 87 | 101 | 116 | 130 | 145 | 159 | 174 | 188 |
| **Factor of correction** | 0.8 | 0.9 | 1.0 | 1.0 | 1.1 | 1.2 | 1.3 | 1.35 | 1.45 |

Multiply the nominal flow of the generator by the factor of correction which corresponds to the inlet pressure of the generator.

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The products are guaranteed 24 months*. Beyond, your investment continues to be supported by our maintenance program **[Gold Service]**. Our wold class technical assistance offers Programmed preventive maintenance to ensure optimal performance of your Gas generator F-DGSi and a priority intervention in case of failure.

***Year 2 of warranty subject to generator being serviced at end of the first year by a F-DGSi-approved agent in accordance with fixed annual maintenance schedule. For full terms and conditions, visit www.f-dgs.com**

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