

NitroFlow Lab Self Contained LC/MS Membrane Nitrogen Generator

Description: The Airgas® LC/MS NitroFlow Lab is a self-contained membrane nitrogen generator that produces LC/MS-grade nitrogen with output pressure to 116 psig. Nitrogen is produced by utilizing a combination of compressors, carefully matched with filtration, and membrane separation technology components.

Intake ambient air from the laboratory is filtered using an inlet suction breather filter to remove airborne organic and particulate impurities. This purified air is delivered to a long-life, low-pressure air compressor which provides an air stream to hollow fiber membranes which subsequently separate the clean air into a concentrated nitrogen retentate and oxygen enriched permeate, which is then cycled through the system. Prior to exiting the system pure nitrogen retentate is delivered to a nitrogen amplification compressor to assure proper pressure, flow and purity to the LC/MS.

The Airgas LC/MS NitroFlow Lab will deliver a continuous or on-demand supply of pure nitrogen, making it the smart alternative to cylinders. Superior engineering with carefully matched filtration, membrane separation and compression technologies have resulted in a system with the utmost reliability and longevity. Additional applications include: nebulizer gases, chemical and solvent evaporation, instrument supply and purge, evaporative light scattering equipment and sparging.

Design Features

- Flow capacity to 30 LPM
- Less expensive and more convenient than nitrogen cylinders and dewars
- Ideal for all derivatives of ESI and APCI modes
- Includes state-of-the-art, oil-less compressors
- Unlike PSA and Hosmer technologies, membrane will not suppress corona needle discharge
- Special sound insulation design ensures quiet operation

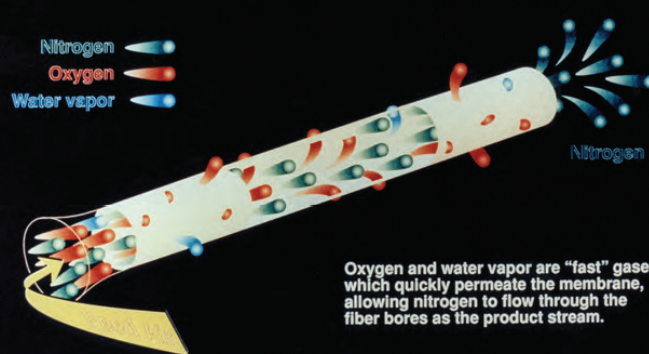
NitroFlowLab

GENERATORS



Principal Specifications	
Model	NitroFlowLab
Nitrogen	Phthalate free with flow to 30 lpm @ sea level
Maximum Outlet Pressure	116 psig (8 barg)
Hydrocarbon Content	< 2ppm (excluding methane)
Atmospheric Dewpoint	-58°F (-50°C)
Outlet Port Female	1/4" NPT
Min/Max Ambient Temperature	50°F/95°F (10°C/35°C)
Electrical Requirements	120Vac/60Hz/20Amp / NEMA 5 - 20 Straight Blade
Dimensions	27.6"h x 12.2"w x 35.4"d (70.1cm x 31cm x 90cm)
Shipping Weight	204 lbs. (92.5 kg)

Membrane Technology



Ordering Information

Product Number	Flow Rate (lpm)	Max Outlet Pressure	Purity
Y80-NITROFLOWLAB	30	116 psig	99.00%