

# PEAK Scientific Nitrogen Generators



- Up to 30 Liters/Minute
- > 99.9 % Purity
- Easy installation
- Optional built in air compressor
- 24 hour continuous gas supply
- Replaces bulky gas cylinders/dewars

Peak Scientific Instruments Membrane Generators utilize Hollow Fiber Membrane Technology to efficiently separate Nitrogen from other gases present in ambient air. The membrane operates on the principal of selective permeation in that “fast” gases such as H<sub>2</sub>O, CO<sub>2</sub> & Oxygen will permeate through the membrane wall. While “slow” gases will not permeate and will continue along the membrane tube and are thus available for collection and use.

## NM18LA and NM30LA

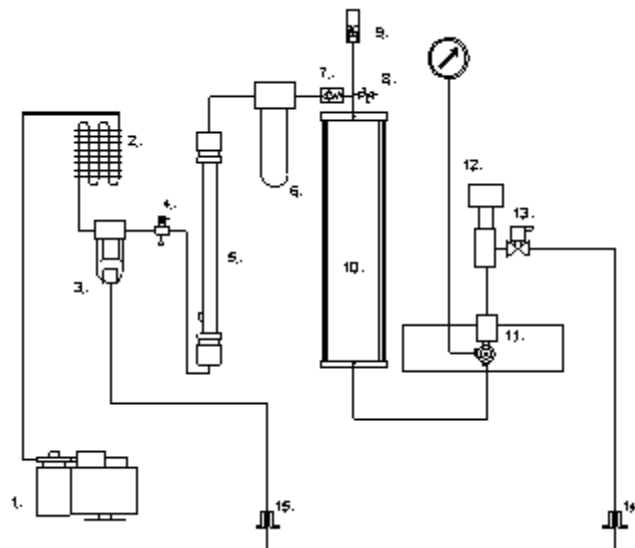
The NM18LA and NM30LA are self-contained Nitrogen Generators with a built-in Air Compressor. No additional equipment is required. Quiet in operation, these generators utilize membrane technology to selectively remove oxygen, moisture and other gases to leave clean, dry, phthalates free nitrogen.

## NM18L and NM30L

If you have an air supply (oil free or pretreated air @ 110 psi is required), the NM18L and NM30L can be attached to your air line. Requiring no electrical connection, it is simple to install and wall mountable. With a pressure drop of only 8 psi it is the lowest on the market, making it easier to use house air.

## Peak Scientific Nitrogen Generator Ordering Information

Cat. No.	Description
NM18L	18 LPM Nitrogen
NM18LA	18 LPM Nitrogen (includes air supply)
NM30L	30 LPM Nitrogen
NM30LA	30 LPM Nitrogen (includes air supply)
08-4429	Filter maintenance kit (L models)
08-4435	Filter maintenance kit (LA models)



Membrane Standard Diagram

Air is drawn into the system by the Compressor (1) and passed through the Heat Exchanger (2) and the Filter/Separator (3) into the Membrane (5). After the Membrane (6) the separated Nitrogen is passed through an Activated Carbon Filter (8) to remove any remaining impurities and into the Receiver (10). The stored nitrogen is regulated (11) to give the required output pressure and flow. Humidity measurement of the Nitrogen can be provided as an option by the TransmetR (12 & 13). Receiver pressure is measured (9) to allow the generator to unload (4) and shutdown should demand cease.

## PEAK Scientific Nitrogen Generator Specifications:

Model	NM18LA	NM18L	NM30LA	NM30L
Max Flow Rate (ATP)	18 LPM	18 LPM	30 LPM	30 LPM
Outlet Pressure	7 Bar/100 psi	input dep.	7 Bar/100 psi	input dep.
Air Compressor	Yes	No	Yes	No
Maximum Purity	>99.9%	>99.9%	>99.9%	>99.9%
Start up time for Purity	45 minutes	45 minutes	45 minutes	45 minutes
Nitrogen Pressure Dewpoint	-70°C / -94°F	-70°C / -94°F	-70°C / -94°F	-70°C / -94°F
Particles >0.01 µm	None	None	None	None
Suspended Liquids	None	None	None	None
Phthalates	None	None	None	None
Commercially Sterile	Yes	Yes	Yes	Yes
Min-Max Air Inlet Pressure	N/A	110 - 150 psi	N/A	110 - 150 psi
Max Ambient Op. Temp	37°C / 98°F	37°C / 98°F	37°C / 98°F	37°C / 98°F
Noise Level	<53 dB (A) 3 ft.	None	<53 dB (A) 3 ft.	None
Electrical Requirements	230V, 50/60 Hz	None	230V, 50/60 Hz	None
Dimensions (HxWxD)	36"x24"x24"	30"x10"x6.5"	36"x24"x24"	30"x10"x6.5"
Weight	90 lbs	22 lbs	198 lbs	29 lbs

Service contracts now available on PEAK Gas Generators.  
Please call Chrom Tech for a quote.