

## REFERENCE

### Liquid Chromatography / Mass Spectrometry



PerkinElmer offers customers a new line of nitrogen generators to meet the growing need for cost effective and pure nitrogen.

Membrane Nitrogen Generators are designed to supply single or multiple LC/MS instruments with dry nitrogen at purities of 98% to 99.5%. The generator can also be used for solvent evaporation as well as supplying dry nitrogen to analytical instruments.

Nitrogen is produced by utilizing a combination of filtration and membrane separation technologies. A high efficiency pre-filtration system pre-treats the compressed air to remove all contaminants down to 0.01 micron. Hollow fiber membranes subsequently separate the clean air into a concentrated nitrogen output stream and an oxygen enriched permeate stream, which is vented from the system. The combination of these technologies produces a continuous on demand supply of pure nitrogen.

#### NITROFLOW LAB



##### Features and Benefits

- Complete "Plug and Play" system recommended by all major LC/MS manufacturers
- Phthalate-free, no organic vapors
- 8,000 hours compressor warranty or two years
- Special design ensures quiet operation
- Dual oil-less air compressors

#### N2-35 MID FLOW NITROGEN GENERATORS



##### Features and Benefits

- Recommended and used by all major LC/MS manufacturers
- Eliminates the need for costly, dangerous, inconvenient nitrogen cylinders in the laboratory
- Requires no electricity
- Compact design frees up valuable laboratory floor space
- Phthalate-free, no organic vapors

#### N2-22 MID FLOW NITROGEN GENERATORS



##### Features and Benefits

- Recommended and used by all major LC/MS manufacturers
- Eliminates the need for costly, dangerous, inconvenient nitrogen cylinders in the laboratory
- Requires no electricity
- Compact design frees up valuable laboratory floor space
- Phthalate-free, no organic vapors

#### N2-45 HIGH FLOW NITROGEN GENERATORS



##### Features and Benefits

- Recommended and used by all major LC/MS manufacturers
- Eliminates the need for costly, dangerous, inconvenient nitrogen cylinders in the laboratory
- Requires no electricity
- Compact design frees up valuable laboratory floor space
- Phthalate-free, no organic vapors

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## Product Selection

### Low Flow Nitroflow Lab Nitrogen Generators

Model	Product No	Flow Rate	Purity	Hydrocarbon Content (excluding methane)	Delivery Pressure	Height (H)	Width (W)	Depth (D)	Weight (Shipping)
		L/min	%	ppm	psig	in / cm	in / cm	in / cm	lbs / kg
NitroFlowLab	N9306213	10 - 30	94.0 - 99.5	<2	116	27.6 / 70	12.2 / 90	35.4 / 31	204 / 92.5
NitroFlowLab	N9306214	10 - 30	94.0 - 99.5	<2	116	27.6 / 70	12.2 / 90	35.4 / 31	204 / 92.5

<b>Ambient Temperature Range</b>	50°F - 95°F (10°C - 35°C)
<b>Ambient Pressure Range</b>	103mbar(a)
<b>Electrical Requirements</b>	120V/60Hz, 20Amp Nema 5 - 20 Straight Blade
<b>Power Consumption</b>	1400 Watts
<b>Port Connections    Outlet Port</b>	1/4" NPT

### N2-22 Mid Flow Nitrogen Generator without Air Compressor

Model	Product No	Flow Rate	Purity	Min/Max Operating Pressure	Atmospheric Dewpoint	Height (H)	Width (W)	Depth (D)	Weight (Shipping)
		L/min	%	psig	°F / °C	in / cm	in / cm	in / cm	lbs / kg
N2-22	N9306210	13 - 38	95.0 - 99.5	60 - 145	-58 / -50	51.5 / 130	18 / 45	16.2 / 41	80 / 36

<b>Ambient Temperature Range</b>	60°F - 95°F (15°C - 35°C)
<b>Max. Recommended Inlet Air Temperature</b>	110°F / 43°C
<b>Inlet Air Temperature Range</b>	60°F - 95°F (15°C - 35°C)
<b>Electrical Requirements</b>	None
<b>Port Connections    Outlet Port                                   Inlet Port</b>	1/4" NPT 1/4" NPT

### N2-35 Mid Flow Nitrogen Generator without Air Compressor

Model	Product No	Flow Rate	Purity	Min/Max Operating Pressure	Atmospheric Dewpoint	Height (H)	Width (W)	Depth (D)	Weight (Shipping)
		L/min	%	psig	°F / °C	in / cm	in / cm	in / cm	lbs / kg
N2-35	N9306211	20 - 44	95.0 - 99.5	60 - 145	-58 / -50	51.5 / 130	18 / 45	16.2 / 41	90 / 41

<b>Ambient Temperature Range</b>	60°F - 95°F (15°C - 35°C)
<b>Max. Recommended Inlet Air Temperature</b>	110°F / 43°C
<b>Inlet Air Temperature Range</b>	60°F - 95°F (15°C - 35°C)
<b>Electrical Requirements</b>	None
<b>Port Connections    Outlet Port                                   Inlet Port</b>	1/4" NPT 1/4" NPT

### N2-45 High Flow Nitrogen Generator without Air Oilless Compressor

Model	Product No	Flow Rate	Purity	Min/Max Operating Pressure	Atmospheric Dewpoint	Height (H)	Width (W)	Depth (D)	Weight (Shipping)
		L/min	%	psig	°F / °C	in / cm	in / cm	in / cm	lbs / kg
N2-45	N9306212	33 - 106	95.0 - 99.5	60 - 145	-58 / -50	67 / 140	24 / 61	20 / 50	250 / 114

<b>Recommended Ambient Operating Temperature</b>	72°F (22°C)
<b>Max. Recommended Inlet Air Temperature</b>	110°F / 43°C
<b>Inlet Air Temperature Range</b>	60°F - 95°F (15°C - 35°C)
<b>Electrical Requirements</b>	None
<b>Port Connections    Outlet Port                                   Inlet Port</b>	1/4" NPT 1/4" NPT

\*See [www.perkinelmer.com](http://www.perkinelmer.com) for a complete listing of flow rates.