

## High-Flow Nitrogen Generators

Model N2-135 High-Flow

GENERATORS

**Description:** The Airgas® High-Flow Nitrogen Generators include models N2-45, N2-80, N2-135 that produce up to 467 SLPM of compressed nitrogen, on-site. The purity level of the nitrogen stream is defined by the user, for the application, and may range from 95% to 99.5%.

High-Flow Model N2-45ANA, N2-80ANA, and N2-135ANA Nitrogen Generators include an oxygen analyzer which monitors the oxygen concentration of the nitrogen stream. An audible alarm signals high or low oxygen concentrations. Airgas® Nitrogen Generators are complete systems engineered to transform standard compressed air into nitrogen at safe, regulated pressures, on demand, without the need for operator attention.

Nitrogen is produced by utilizing a combination of filtration and membrane separation technologies. A high efficiency prefiltration system pretreats 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.

Typical applications include: LC/MS, nebulizer gas, chemical and solvent evaporation, instrument purge and supply, evaporative light scattering detector use (ELSD), and sparging.

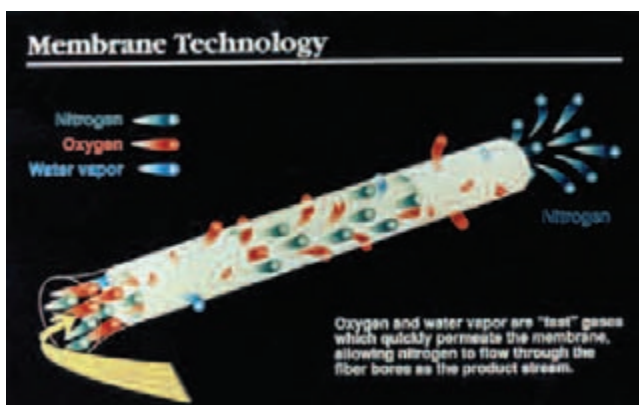


### Design Features

- Recommended and used by all major LC/MS manufacturers
- Models N2-45, N2-80, and N2-135 require no electricity
- Compact design frees up valuable laboratory floor space
- Phthalate-free, no organic vapors
- Unlike PSA technology, membrane will not suppress corona needle discharge.

### Principal Specifications

Models	N2-45, N2-80, N2-135, N2-45ANA, N2-80ANA, and N2-135ANA
Nitrogen Purity	95.0% - 99.5%
Atmospheric Dewpoint	-58°F (-50°C)
Suspended Liquids	None
Particles > 0.01 μm	None
Commercially Sterile	Yes
Phthalate-free	Yes
Hydrocarbon-free	Yes
Min./Max. Operating Pressure	60/145 psig
Max. Press. Drop @ 99% N <sub>2</sub> Purity, 125 psig	10 psig
Recommended Ambient Operating Temperature	72°F (22°C)
Max. Inlet Air Temperature	110°F (43°C)
Inlet/Outlet Ports	1/2" NPT
Electrical Requirements N2-45, N2-80, N2-135	None
N2-45ANA, N2-80ANA, N2-135ANA	120 VAC/60 Hz/25 Watts
Shipping Weight N2-45, N2-80, N2-135	250 lbs (114 kg)
N2-45ANA, N2-80ANA, N2-135ANA	250 lbs (114 kg)
Oxygen Analyzer	Included with Model N2-45ANA, N2-80ANA, N2-135ANA
Dimensions	67"h x 24"w x 20"d (140cm x 61cm x 50cm)



**GENERATORS**

**High-Flow**

## High-Flow Nitrogen Generators Cont.

### Nitrogen Purity / Flow Chart

Flow LPM (liters per minute), at 68°F (25°C) inlet air temperature and operating pressure, PSIG. Flows printed in black are for Models N2-45 and N2-45A. Flows printed in red are for Models N2-280 and N2-280A. Flows printed in green are for Models N2-135 and N2-135A.

	145			125			110			100			90			80		
<b>99.5</b>	67	100	133	55	83	110	47	71	94	39	59	78	33	50	66	27	41	54
<b>99</b>	92	138	183	74	112	149	63	95	127	53	79	106	44	66	89	35	53	71
<b>98</b>	129	194	258	106	159	212	89	134	179	73	110	147	62	93	124	50	75	101
<b>97</b>	163	244	325	132	198	264	113	169	226	94	141	187	79	119	159	65	97	130
<b>96</b>	200	300	400	160	240	320	137	205	274	114	171	228	97	145	194	80	119	159
<b>95</b>	233	350	467	187	281	374	160	241	321	134	201	268	111	167	222	90	135	180

### Ordering Information for assistance, call 1-800-939-5711, 8 to 5 Eastern Time

Description	Galvanic Cell	Carbon Tower	Maintenance Kit	Installation Kit	Preventative Maintenance Plan	Extended Support with 24 Month Warranty
Y80-N245	N/A	75344	75478	IK75880	N2-45-PM	N2-45-DN2
Y80-N245ANA	72695A	75344	75478	IK75880	N2-45A-PM	N2-45A-DN2
Y80-N280	N/A	75344	75478	IK75880	N2-80-PM	N2-80-DN2
Y80-N280ANA	72695A	75344	75478	IK75880	N2-80A-PM	N2-80A-DN2
Y80-N2135	N/A	75344	75478	IK75880	N2-135-PM	N2-135-DN2
Y80-N2135ANA	72695A	75344	75478	IK75880	N2-135A-PM	N2-135A-DN2