

Low Flow Nitrogen Generators

Parker Balston® Low Flow Nitrogen Generators include models N2-04, N2-14, N2-14A, N2-22, N2-22ANA, N2-35, and N2-35ANA that produce 132 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%.

Models N2-14ANA, N2-22ANA and N2-35ANA Nitrogen Generators include an oxygen analyzer which monitors the oxygen concentration of the nitrogen stream. An audible alarm signals high or low oxygen concentrations. Parker Balston 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. The systems eliminate the need for costly, dangerous dewars and cylinders in the laboratory.

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.



Model N2-22 Mid Flow Membrane Nitrogen Generator

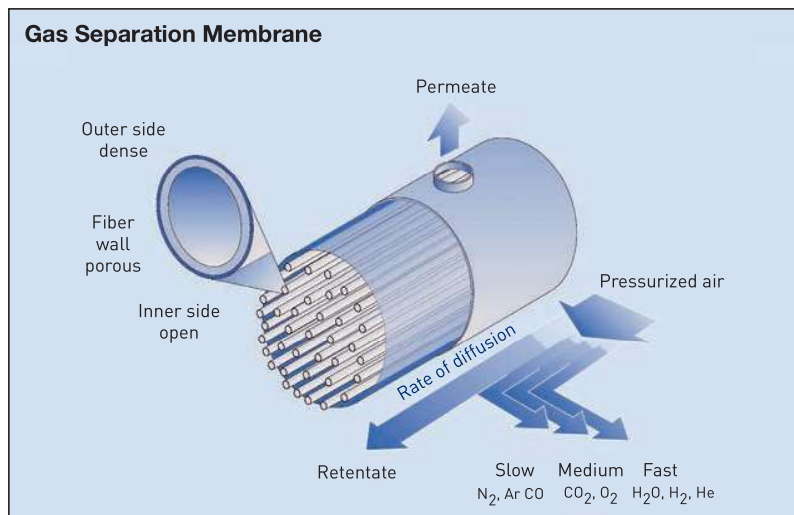


Features and Benefits

- Recommended and used by all major LC-MS manufacturers
- Eliminates the need for costly, dangerous, inconvenient nitrogen cylinders in the laboratory
- Models N2-04, N2-14, N2-22, N2-35 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.



This Technology Features Advanced HiFlux Fiber



Nitrogen Purity / Flow Chart

Flow measured in SLPM at indicated Operating Pressure, psig. Flows for Model N2-04 printed in black, flows for Models N2-14 and N2-14A in red.

	145		125		110		100		90		80		70		60	
99.5	-	11	-	10	-	9	-	8	-	7	-	6	-	5	-	4
99	6	18	5	16	5	15	4	13	4	11	3	10	3	8	2	7
98	11	29	10	25	9	25	8	20	7	18	6	16	5	13	4	11
97	15	40	13	34	13	33	10	27	9	25	8	21	7	18	6	15
96	20	50	17	43	16	42	13	34	12	31	10	26	9	22	7	19
95	24	60	21	52	20	51	17	42	15	37	13	32	11	28	9	24

Nitrogen Purity / Flow Chart

Flow measured in SLPM at indicated Operating Pressure, psig. Flows for Model N2-22, N2-22A printed in black, flows for Models N2-35, N2-35A in red.

	145		125		110		100		90		80		70		60	
99.5	19	29	16	25	14	22	13	20	12	18	10	16	9	13	17	11
99	29	44	25	37	22	33	20	30	18	27	15	23	13	20	11	17
98	44	66	38	57	34	51	30	46	27	41	24	36	20	30	17	26
97	59	83	50	74	45	65	40	57	36	52	31	46	26	40	23	35
96	73	109	63	94	56	84	50	75	45	67	39	59	32	50	27	42
95	88	131	77	114	69	102	61	90	55	81	48	71	41	60	35	52

Principal Specifications

Models	N2-04, N2-14, N2-14ANA, N2-22, N2-22ANA, N2-35 and N2-35ANA	
Nitrogen Purity	95.0% - 99.5%	
Atmospheric Dewpoint	-58°F (-50°C)	
Suspended Liquids	None	
Particles > 0.01µm	None	
Commercially Sterile	Yes	
Phthalate-free	Yes	
Hydrocarbon-free	Yes	
Min./Max. Operating Pressure	60/145 psig	
Max. Press. Drop @ 99% N ₂ Purity, 125 psig	10 psig	
Recommended Ambient Operating Temperature	68°F (20°C)	
Max. Inlet Air Temperature	110°F (43°C)	
Inlet/Outlet Ports	1/4" NPT	
Electrical Requirements	N2-04, N2-14, N2-22, N2-35 N2-14ANA, N2-22ANA, N2-35ANA	None 120V/60Hz/100mA, 230V/50Hz/50mA
Shipping Weight	N2-04 N2-14 N2-14ANA, N2-22, N2-22ANA N2-35, N2-35ANA	42.5 lbs (19 kg) 75 lbs (34 kg) 80 lbs (36 kg) 90 lbs (41 kg)
Oxygen Analyzer	Included with Model N2-14ANA, N2-22ANA, N2-35ANA	
Dimensions, N2-04	16.1"h x 10.7"w x 13.4"d (40.9cm x 27.2cm x 34cm)	
Dimensions, N2-14, N2-14ANA, N2-22, N2-22ANA, N2-35, N2-35ANA	51.5"h x 18"w x 16.2"d (130.8cm x 45.7cm x 41.1cm)	

NOTES

1 Refer to voltage appendix for electrical and plug configurations for outside North America.

Ordering Information

for assistance, call 800-343-4048, 8 to 5 Eastern Time

Description	Galvanic Cell	Annual Maintenance Kit	Installation Kit	Preventive Maintenance Plan	Extended Support with 24 Month Warranty
N2-04	N/A	MK7840	IK7572	N2-04 -PM	N2-04-DN2
N2-14	N/A	MK7572C	IK7572	N2-14-PM	N2-14-DN2
N2-14ANA	72695A	MK7572C	IK7572	N2-14A-PM	N2-14A-DN2
N2-22, N2-35	N/A	MK7572C	IK7572	N2-22-PM, N2-35-PM	N2-22-DN2, N2-35-DN2
N2-22ANA, N2-35ANA	72695A	MK7572C	IK7572	N2-22A-PM, N2-35A-PM	N2-22A-DN2, N2-35A-DN2