

Parker Balston® Nitrogen Generators



High Purity Nitrogen Generator

- Produces a continuous supply of high purity nitrogen gas from existing compressed air
- Eliminates the need for costly, dangerous, inconvenient nitrogen cylinders in the laboratory
- Compact design frees up valuable laboratory space
- Offers long term cost stability – uncontrollable vendor price increases, contract negotiations, long term commitments and tank rentals are no longer a concern
- Ideal for carrier gas, make-up gas or solvent evaporation applications

Parker Balston® Models 76-92, 76-94, and 76-96 Nitrogen Generators are completely engineered to transform standard compressed air into 99.99% or 99.9999% nitrogen, exceeding the specification of UHP cylinder gas. Models 76-92 and 76-94 can produce up to 1.1 LPM of UHP nitrogen gas and Model 76-96 can produce up to 2.0 LPM. Nitrogen is produced by utilizing a combination of state-of-the-art purification technologies and high efficiency filtration.

Pressure swing adsorption removes O₂, CO₂, and water vapor. A catalyst module is incorporated in the 76-94 Model to oxidize hydrocarbons from the inlet air supply. High efficiency coalescing prefilters and a 0.1µm (absolute) membrane filter is also incorporated into the design of the generators.

The Parker Balston UHP Nitrogen Generators are engineered and packaged in a small cabinet to fit on or under any benchtop. The systems eliminate the need for costly, inconvenient high pressure nitrogen cylinders. The 76-92* and 76-94 are ideal for carrier gas and make-up gas applications. The 76-96 is ideal for solvent evaporation applications (on select equipment).

*Model 76-92 has the same specifications as model 76-94 except for Hydrocarbon removal.

Parker Balston Nitrogen Generator Ordering Information

Cat. No.	Description
76-96	High purity Nitrogen generator
76-92	Ultra high purity Nitrogen generator
76-94	Ultra high purity Nitrogen generator <i>w/hydrocarbon removal</i>
MK7692	Maintenance kit* for 76-92 and 76-96
MK7694	Maintenance kit* for 76-94

*Kit includes a one year supply of prefilters and final filters

Parker Balston Nitrogen Generator Specifications:

Model	76-92/76-94	76-96	75-A72, 75A720 75-A74, 75-A740
Max Nitrogen flow rate	See flow table	2LPM	See flow table
Nitrogen Purity	99.9999%	99.99%	95.0 - 99.5%
Max Nitrogen output pressure	See flow table	90psi	input dependent
CO concentration	< 1ppm	NA	-
CO ₂ concentration	< 1ppm	< 1ppm	-
O ₂ concentration	< 1ppm	< 100ppm	-
H ₂ O concentration	≤ 2ppm	≤ 2ppm	-
Hydrocarbon concentration ¹	< 0.1ppm	NA	-
Argon concentration ²	0.9%	0.9%	-
Min/Max inlet pressure	60/125 psi	75/120 psi	60/145 psi
Recommended inlet temp.	≤ 78°F (25°C)	≤ 78°F (25°C)	≤ 78°F (25°C)
Max ambient operating temp.	100°F (38°C)	100°F (38°C)	110°F (43°C)
Max air consumption	42 LPM	42 LPM	-
Inlet connection	1/4" NPT (female)	1/4" NPT (female)	1/4" NPT
Outlet connection	1/8" compression	1/8" compression	1/4" NPT
Electrical requirements ³	120 VAC/60 Hz	120 VAC/60 Hz	120V/60Hz/25 Watts 75-A72, 75-A74: None
Dimensions	12" w x 16" d x 35" h	12" w x 16" d x 35" h	16" w x 16" d x 50" h
Shipping weight	115 lbs (52kg)	115 lbs (52 kg)	75 lbs - 106 lbs

¹ Models 76-92 and 76-96 do not remove hydrocarbons

² Purity specification for Nitrogen does not include Argon concentration

³ Power consumption is as follows: 76-92 = 25 Watts; 76-94 = 700 Watts; 76-96 = 25 Watts

Nitrogen Flow Table:

Inlet Air Pressure	Max Outlet Flow	Max Outlet Pressure
Models 76-92 and 76-94		
125 psi	1100 cc/min	85 psi
110 psi	1000 cc/min	75 psi
100 psi	900 cc/min	65 psi
90 psi	800 cc/min	60 psi
80 psi	700 cc/min	50 psi
70 psi	600 cc/min	45 psi
60 psi	500 cc/min	35 psi
Model 76-96		
75-120 psi	2000 cc/min	90 psi

Membrane N₂ Generator Purity/Flow Chart:

	Max Flow @ 145 psi inlet pressure	
N ₂	75-A72,	75-A74,
Purity	75-A720	75-A740
99.5%	8 LPM	16 LPM
99%	14 LPM	28 LPM
98%	20 LPM	40 LPM
97%	24 LPM	48 LPM
96%	29 LPM	58 LPM
95%	36 LPM	72 LPM

Membrane Nitrogen Generators

- Applications: LC/MS, solvent evaporation



These Parker Balston Nitrogen generation systems produce up to 72 LPM 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%.

These generators transform standard compressed air into nitrogen at safe, regulated pressures, on demand, without the need for operator attention. A high efficiency prefiltration system pretreats the compressed air to remove all contaminants down to 0.01µm. 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.

Parker Membrane Nitrogen Generator Ordering Information:

Cat. No.	Nitrogen Generator Flow Range:
75-A72	Up to 36 LPM
75-A720	Up to 36 LPM, includes oxygen analyzer
75-A74	Up to 72 LPM
75-A740	Up to 72 LPM, includes oxygen analyzer
MK7572C	Filter maintenance kit (for current models)