

## FAST FACTS

# Nitrogen Generators

## Low- and Mid-Level Flow Capacities



### Parker Balston® Nitrogen Generators

- Produce a continuous supply of high purity nitrogen gas from existing compressed air.
- Eliminate the need for costly, dangerous, inconvenient cylinders in the laboratory.
- Ideal for all combustion, UV persulfate, or wet oxidation sampling techniques.
- Compact design frees valuable laboratory floor space.
- Offer long-term cost stability - uncontrollable vendor price increases, contract negotiations, long-term commitments, and tank rentals are no longer a concern.

Parker Balston® Model HPN2-1100 and UHPN2-1100 UHP Nitrogen Generators are engineered to transform standard compressed air into 99.9999% nitrogen, exceeding the specification of UHP cylinder gas, at up to 1.1 lpm.

Nitrogen is produced by a combination of state-of-the-art purification technologies and high efficiency filtration. Model HPN2-2000 can produce up to 2 lpm of 99.99% pure nitrogen gas from standard compressed air. Pressure swing adsorption removes O<sub>2</sub>, CO<sub>2</sub>, and water vapor. A catalyst module is incorporated in Model UHPN2-1100 to oxidize hydrocarbons from the inlet air supply.\* The generators also have high efficiency coalescing prefilters and a 0.01 micron (absolute) membrane filter. Models HPN2-1100 and UHPN2-1100 are ideal for TOC carrier gas and purge applications.

Parker Balston® UHP Nitrogen Generators are packaged in a small cabinet, to fit nearly any benchtop.

\*Models HPN2-1100 and UHPN2-2000 do not remove hydrocarbons.

**Flow Table for Parker Balston® Nitrogen Generator Models HPN2-2000, HPN2-1100, and UHPN2-1100**

Inlet Air Pressure (psig)	Maximum Outlet Flow (cc/min.)	Maximum Outlet Pressure (psig)
	<i>Models HPN2-1100 and UHPN2-1100</i>	
125	1100	85
110	1000	75
100	900	65
90	800	60
80	700	50
70	600	45
60	500	35
	<i>Model HPN2-2000</i>	
75-120	2000	90



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## High Purity Nitrogen Generators

	Model HPN2-1100 or UHPN2-1100	Model HPN2-2000	Model N2-14 or N2-14A
Maximum Nitrogen Flow Rate:	See Flow Table	2 lpm	78scfh* at 95% purity
Nitrogen Purity:	up to 99.9999%	99.99%	95.0%–99.5%
Maximum Nitrogen Outlet Pressure:	See Flow Table	90 psig	
CO Concentration:	< 1.0 ppm	NA	
CO <sub>2</sub> Concentration:	< 1 ppm	< 1 ppm	
O <sub>2</sub> Concentration:	< 1 ppm	< 100 ppm	
H <sub>2</sub> O Concentration:	≤ 2 ppm	≤ 2 ppm	
Hydrocarbon Concentration <sup>1</sup> :	< 0.1 ppm	NA	
Argon Concentration <sup>2</sup> :	0.9%	0.9%	
Atmospheric Dewpoint:			-58°F (-50°C)
Suspended Liquids:			None
Particles > 0.01µm:			None
Oxygen Analyzer:			Included with Model 75-720NA
Commercially Sterile:			Yes
Minimum/Maximum Inlet Pressure:	60 psig/125 psig	75 psig/120 psig	60/145 psig
Maximum Pressure Drop (99% N <sub>2</sub> Purity, 125 psig):			10 psid
Recommended Inlet Temperature:	≤ 78°F (25°C)	≤ 78°F (25°C)	≤ 68°F (25°C) (Max.)
Ambient Operating Temperature:	60°F–100°F (16°C–38°C)	40°F–100°F (4°C–38°C)	110°F (43°C) (Max.)
Maximum Air Consumption:	42 lpm (1.5 scfm)*	42 lpm (1.5 scfm)*	
Inlet Connection:	1/4" NPT (female)	1/4" NPT (female)	1/4" NPT
Outlet Connection:	1/4" compression	1/8" NPT compression	1/8" NPT
Electrical Requirements <sup>3</sup> :	120 VAC/60 Hz	120 VAC/60 Hz	N2-14: None N2-14A: 120 VAC/60 Hz/25 Watts
Dimensions:	35"h x 12"w x 16"d (89cm x 30cm x 41cm)	35"h x 12"w x 16"d (89cm x 30cm x 41cm)	50"h x 16"w x 16"d (127cm x 41cm x 41cm)
Shipping Weight:	115 lbs. (52 kg)	115 lbs. (52 kg)	N2-14: 75 lbs. (34 kg) N2-14A: 80 lbs. (36 kg)

<sup>1</sup>Models HPN2-1100 and HPN2-2000 do not remove hydrocarbons.

<sup>2</sup>Purity specification for nitrogen does not include argon concentration.

<sup>3</sup>Power consumption is:  
Model HPN2-1100 = 25 Watts  
Model UHPN2-1100 = 700 Watts  
Model HPN2-2000 = 25 Watts

Nitrogen Generator	qty.	cat.#
Nitrogen Generator N2-14 (general purpose) 78 scfh** max. flow at 95% purity	ea.	20677
Nitrogen Generator N2-14A (general purpose w/oxygen analyzer) 78 scfh** max. flow at 95% purity	ea.	21652
Nitrogen Generator HPN2-2000 (high purity—99.99%) 2.0 lpm max. flow	ea.	21654
Nitrogen Generator HPN2-1100 (high purity—99.99%) 1.1 lpm max. flow	ea.	21653
Nitrogen Generator UHPN2-1100 (ultra-high purity—99.9995%); [HC<0.1ppm] 1.1 lpm max. flow	ea.	20697

  

Maintenance Kits	qty.	cat.#
Maintenance Kit for Models N2-14, N2-14A, 75-72, 75-720NA	kit	21648
Maintenance Kit for Models HPN2-1100, HPN2-2000, 76-96, 76-92	kit	21649
Maintenance Kit for Models UHPN2-1100, 76-94	kit	21655

\*Standard cubic feet per minute.

\*\*Standard cubic feet per hour.

## International Power Cord Sets

Just add the proper suffix to the catalog number for the gas generator you are ordering.

Location	qty.	cat.# suffix
United Kingdom (230VAC, 50/50Hz)	ea.	-550
European (230VAC, 50/60Hz)	ea.	-551
IEC Connector Only (230VAC, 50/60Hz)	ea.	-552
Japanese (200VAC, 50/60Hz)	ea.	-556
Japanese for Nitrogen (100VAC, 50/60Hz)	ea.	-555

## ordering note

For international orders, please add the appropriate power cord suffix from the table.



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**HROMalytic Chromatography Products '08**  
**Australian Distributors ECHnology**  
 www.chromtech.net.au E-mail : info@chromtech.net.au Tel : +61 3 9762 2034 Fax : +61 3 9761 1169

