

# Nitrogen Generators

for Gas Chromatography

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ADVANCED APPLIED TECHNOLOGIES

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## Nitrogen on Demand, up to 2,000 ml/min

The Parker Balston Ultra High Purity (UHP) Nitrogen Generators are engineered to transform standard compressed air in to a safe regulated supply of 99.9999% pure nitrogen.

Typical applications include GC make up gas and carrier gas, including ECD (Electron Capture Detector), solvent evaporation, DSC (Differential Scanning Calorimeter) and virtually any analytical instrument that requires a small flow of ultra high purity nitrogen.



## Contact Information:

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## Product Features:

- Produces a continuous supply of high purity nitrogen 99.9999% for GC applications
- Ideal for make-up and carrier gas applications including ECD
- Eliminate dangerous nitrogen cylinders from the laboratory
- Ideal for TOC applications including combustion, UV persulate and wet oxydation sampling techniques
- Low maintenance, minimal operation attention
- Designed to run 24 hours a day

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Nitrogen is produced by utilising a combination of filtration and pressure swing adsorption (PSA) technology. Standard compressed air is filtered by high efficiency coalescing filters to remove all contaminants down to 0.01 micron.

The air then passes through two columns filled with carbon molecular sieve (CMS) which adsorb O<sub>2</sub>, CO<sub>2</sub>, moisture and hydrocarbons. These are desorbed to atmosphere during the pressure swing cycle leaving a supply of ultra pure nitrogen.

For ultra sensitive applications such as ECD, units are also available with the addition of a heated catalyst module to ensure hydrocarbons are removed to < 0.1 ppm.

## Principal Specification

Model	UHPN2-1100	HPN2-1100	HPN2-2000
Purity	99.9999 %	99.9999 %	99.99 %
Hydrocarbon Concentration	< 0.1ppm	N/A	N/A
Flow Rates	See Table	See Table	2,000 ml/min
Inlet Pressure	4.1 to 8.6 bar	4.1 to 8.6 bar	5.1 to 8.6 bar
Inlet Connection	1/4" NPT (Female)	1/4" NPT (Female)	1/4" NPT (Female)
Outlet Connection	1/8" NPT (Female)	1/8" NPT (Female)	1/8" NPT (Female)
Ambient Temperature	10 to 35°C	10 to 35°C	10 to 35°C
Electrical Requirements	230VAC - 50Hz	230VAC - 50Hz	230VAC - 50Hz
Power Consumption	700 Watts	25 Watts	25 Watts
Dimensions (H x W x D)	890 x 310 x 410 mm	890 x 310 x 410 mm	890 x 310 x 410 mm
Weight (Shipping)	47 Kg (50)	47 Kg (50)	47 Kg (50)

## Flow Rates ml/min

Model	Inlet Air Pressure (Bar)	Maximum Outlet Flow (ml/min)	Maximum Outlet Pressure (Bar)
UHPN2-1100 and HPN2-1100	8.6	1,100	5.9
	7.6	1,000	5.2
	6.9	900	4.5
	6.2	800	4.1
	5.5	700	3.4
	4.8	600	3.1
	4.1	500	2.4

## Ordering Information

Description	Model Number
500 to 1,100 ml/min Ultra High Purity Nitrogen Generator (with Hydrocarbon removal)	UHPN2-1100
500 to 1,100 ml/min High Purity Nitrogen Generator	HPN2-1100
2,000 ml/min High Purity Nitrogen Generator	HPN2-2000
Installation Kit	IK7694

Maintenance Items	Model Number	Change Frequency
Maintenance Kit for UHPN2-1100	MK7694	12 Months
Maintenance Kit for HPN2-1100	MK7692	12 Months
Maintenance Kit for HPN2-2000	MK7692	12 Months