

# Ultra High Purity Nitrogen Generators

for GC and other analytical applications



## Nitrogen on demand, up to 3,200 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 99.9995% pure nitrogen.

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

Innovative design features include integral compressors with economy mode as standard. This extends compressor life and reduces ongoing running costs.



## Contact Information:

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## Product Features:

- Produces a continuous supply of high purity nitrogen 99.9995% for analytical applications
- Compact, reliable with minimal operator attention and maintenance
- Eliminate dangerous nitrogen cylinders from the laboratory
- Integral oil free compressors with noise reduction technology
- Economy mode: increasing compressor life and reducing ongoing running costs
- Designed to run 24 hours a day

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.

## Principal Specification

Model	UHPN2-600	UHPN2-600C	UHPN2-800	UHPN2-800C	UHPN2-1600	UHPN2-1600C	UHPN2-3200	UHPN2-3200C
Purity	99.9995%	99.9995%	99.9995%	99.9995%	99.9995%	99.9995%	99.9995%	99.9995%
Hydrocarbon concentration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CO Concentration	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm
CO <sub>2</sub> Concentration	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm
H <sub>2</sub> O Concentration	<<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm
Flow rates	600ml/min	600ml/min	800ml/min	800ml/min	1600ml/min	1600ml/min	3200ml/min	3200ml/min
Inlet pressure	8-9.9 bar	N/A	8-9.9 bar	N/A	8-9.9 bar	N/A	8-9.9 bar	N/A
Integral compressor	No	Yes	No	Yes	No	Yes	No	Yes
Outlet pressure	5 bar	5 bar	5 bar	5 bar	5 bar	5 bar	5 bar	5 bar
Inlet connection	1/4"	N/A	1/4"	N/A	1/4"	N/A	1/4"	N/A
Outlet connection	1/8" BSPP	1/8" BSPP	1/8" BSPP	1/8" BSPP	1/4" BSPP	1/4" BSPP	1/4" BSPP	1/4" BSPP
Ambient temperature	15 to 25°C	15 to 25°C	15 to 25°C	15 to 25°C	15 to 25°C	15 to 25°C	15 to 25°C	15 to 25°C
Electrical requirements	230VAC-50Hz	230VAC-50Hz	230VAC-50Hz	230VAC-50Hz	230VAC-50Hz	230VAC-50Hz	230VAC-50Hz	230VAC-50Hz
Power consumption	85 Watts	606 Watts	85 Watts	606 Watts	88 Watts	698 Watts	88 Watts	698 Watts
Dimensions (HxWxD)	869x345x417mm	869x345x417mm	869x345x417mm	869x345x417mm	869x345x667mm	869x345x667mm	869x345x667mm	869x345x667mm
Weight	44Kg	50Kg	44Kg	50Kg	84Kg	93Kg	84Kg	93Kg

## Ordering Information

Description	Model Number
600 ml/min UHP Nitrogen Generator	UHPN2-600
600 ml/min UHP Nitrogen Generator with integral compressor	UHPN2-600C
800ml/min UHP Nitrogen Generator	UHPN2-800
800ml/min UHP Nitrogen Generator with integral compressor	UHPN2-800C
1600ml/min UHP Nitrogen Generator	UHPN2-1600
1600ml/min UHP Nitrogen Generator with integral compressor	UHPN2-1600C
3,200 ml/min UHP Nitrogen Generator	UHPN2-3200
3,200ml/min UHP Nitrogen Generator with integral compressor	UHPN2-3200C
Installation Kit	IK7694

Maintenance Items	Model Number	Change Frequency
Filter Kit - all non compressor models	MKUHPN2-FK	12 months
Filter Kit - UHPN2-600C/800C models	MKUHPN2C-FK	12 months
Filter Kit UHPN2-1600C / 3200C models	MKUHPN2CL-FK	12 months
Compressor Kit 230V - UHPN2-600C/800C models	MKN2CK230S	8,000 hours or 24 months (which ever comes first)
Compressor Kit 230V UHPN2-1600C/3200C models	MKN2-CK230L	8,000 hours or 24 months (which ever comes first)