

Nitrogen Generators

for LC/MS

Distributed by:



Carl Stuart Limited

ADVANCED APPLIED TECHNOLOGIES

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Nitrogen on Demand, up to 228 lpm

The Parker Balston membrane nitrogen generators can produce up to 228 lpm of pure LC/MS grade nitrogen at pressures up to 8 bar. Generators are complete systems engineered to transform standard compressed air into a safe regulated nitrogen supply with minimal operator attention.

Typical applications include LC/MS, LC/MS/MS, nebuliser gases for APCI and ESI, ELSD, Turbo Vaps and chemical solvent evaporation. The membrane nitrogen generators have been tried and tested by all the major LC/MS manufactures.



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Product Features:

- Recommended and used by all major LC/MS manufacturers
- Eliminates inconvenient nitrogen dewars from the laboratory
- No electrical requirement, no noise, no moving parts
- Phthalate-free, no organic vapours
- Can supply up to 6 LC/MS from one generator
- Utilises Parker's propriety membrane technology

Parker **BALSTON**
Analytical Gas Systems

ENGINEERING YOUR SUCCESS.

Nitrogen is produced by utilising a combination of filtration and membrane separation technologies.

A house supply of compressed air is filtered by high efficiency coalescing filters to remove all contaminants down to 0.01 micron.

Unique proprietary hollow fibre membranes then separate the air into a concentrated nitrogen stream

Membrane technology offers some unique performance benefits for LC/MS users including phthalate-free

nitrogen, silent operation, no moving parts and no electrical requirements. 10,000's of systems are installed worldwide.

Principal Specification

Model	N2-14	N2-22	N2-35	N2-45	N2-80	N2-135
Purity	Up to 99.5 %	Up to 99.5 %	Up to 99.5 %	Up to 99.5 %	Up to 99.5 %	Up to 99.5 %
Phthalate-free	Yes	Yes	Yes	Yes	Yes	Yes
Hydrocarbon-free	Yes	Yes	Yes	Yes	Yes	Yes
Flow Rates	Up to 34 lpm	Up to 50 lpm	Up to 75 lpm	Up to 114 lpm	Up to 171 lpm	Up to 228 lpm
Inlet Pressure	7 to 10 bar	7 to 10 bar	7 to 10 bar	7 to 10 bar	7 to 10 bar	7 to 10 bar
Ambient Temperature	10 to 35 °C	10 to 35 °C	10 to 35 °C	10 to 35 °C	10 to 35 °C	10 to 35 °C
Inlet Connection	1/4" NPT	1/4" NPT	1/4" NPT	1/2" NPT	1/2" NPT	1/2" NPT
Outlet Connection	1/4" NPT	1/4" NPT	1/4" NPT	1/2" NPT	1/2" NPT	1/2" NPT
Electrical Requirements	None	None	None	None	None	None
Number of LC/MS*	Up to 1	Up to 2	Up to 3	Up to 4	Up to 5	Up to 6
Dimensions (H x W x D)	1270x400x400mm	1270x400x400mm	1270x400x400mm	1700x610x510mm	1700x610x510mm	1700x610x510mm
Weight (Shipping)	30 Kg (34)	42 Kg (46)	48 Kg (52)	104 Kg (114)	104 Kg (114)	104 Kg (114)

*Based on 25 lpm at 7 bar LC/MS

Ordering Information

Description	Model Number
Nitrogen Generator for up to 1 LC/MS	N2-14
Nitrogen Generator for up to 2 LC/MS	N2-22
Nitrogen Generator for up to 3 LC/MS	N2-35
Nitrogen Generator for up to 4 LC/MS	N2-45
Nitrogen Generator for up to 5 LC/MS	N2-80
Nitrogen Generator for up to 6 LC/MS	N2-135
Installation Kit for N2-14, N2-22, N2-35	IK7572
Installation Kit for N2-45, N2-80, N2-135	IK75880

Maintenance Items	Model Number	Change Frequency
Maintenance Kit for N2-14, N2-22, N2-35	MK7572C	6 Months (Kit contains 1 year supply)
Maintenance Kit for N2-45, N2-80, N2-135	75478	6 Months (Kit contains 1 year supply)
Carbon Tower for N2-45, N2-80, N2-135	75344	6 Months