



Nitrogen Generators for Retail Tyre and Industrial Applications

A HORNGROUP BRAND

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The NEXUS N72 is a BRAND NEW mobile Nitrogen generation and gas delivery cart "Made in Sheffield", UK.

This compact and innovative system combines PCL's world renowned digital pressure control technology with modern membrane nitrogen generation technology to deliver high purity Nitrogen to the desired application quickly and quietly. The N72 NEXUS supersedes the NEXUS range with modern features and offers real end-user benefits. This new concept has complete flexibility and mobility in mind, all standard applications are now covered and coming in at around half the size of a standard PSA Nitrogen system and around one third of the weight. Powered by a rechargeable battery* the unit can easily be moved around the workspace with minimal fuss.

KEY FEATURES

5-year warranty on Nitrogen generation membrane**
Modern membrane Nitrogen generation technology
PCL digital pressure controlling software built-in
Smallest and lightest 'like for like' system on the market
Re-chargeable battery powered (mains option available)
PCL best-in-class Nitrogen 'purge-and-fill' function
All common Nitrogen applications covered (+/- 97%)
12v 7 amp battery and charge indicator
Nitrogen purity test port

* Mains power options available

** Subject to annual filter element changes

KEY BENEFITS

Long lasting peace of mind for your capital investment
Compact, fast, very quiet and no moving parts
Calibrated, traceable accuracy and safety from the pre-set inflator
Allows for flexible movement & positioning in the workspace
No trailing cables, can be used anywhere with an air source
Converts air filled vessels (e.g. tyres) up to 95% pure Nitrogen
Flexible and versatile system
Long lasting 20h of continuous use & only 2h recharge time
Provable high purity Nitrogen delivery

Comparison with other systems on the market

SPECIFICATION	N72	NEXUS	COMMON PSA SYSTEM
Size (m)	1.03 x 0.5 x 0.6	1.36 x 0.6 x 0.47	circa 1.36 x 0.6 x 0.47
Weight	50-70 kg	155 kg	150 kg +
Power Supply	12v 7 amp battery	230v/110v mains	230v/110v mains
Warranty	5 years **	12 months	12 months
Noise Level (dBa)	65	80+	80+
Applications	Car, LC, HC	Car, LC, HC, EM	Car, LC
12 Conversion	2 x 10% purge & fill	2 x 10% purge & fill	1 x 10% 1 x 50% purge & fill
Country of Origin	UK	China	China
pares	Full range	Limited	Limited
Max Pressure	145 psi / 10 bar	145 psi / 10 bar	145 psi / 10 bar
Approvals	France (Spain, Portugal TBC)	N/A	N/A



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TECHNICAL SPECIFICATION

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Temperature Range	Operating: 0°c to 40°c Storage: -40°c to 70°c
Electrical Interface	12v battery powered: 7 amp Rechargeable from mains power (110v or 230v)
Cabinet Dimensions	Height: 1029 mm Width: 535 mm Depth: 647 mm Weight: 50-70 kg (depending on model)
Accuracy	To +/- 0.5% of full scale reading (Exceeds EN12645:2014 Standard)
Max Inflation Set Pressure	145 psi /10 bar / 999 kPa

NO.	EXAMPLE APPLICATION (RETAIL TYRE)	PART NO.	MAX FLOW RATE	MINIMUM INPUT
1	1 x Car tyre	N72SAGC1	50 l/min (1.77 cfm)	8 bar / 5.3 cfm
2	4 x Car / van tyres / 2 x motorcycle tyres	N72SAIC24	83 l/min (2.94 cfm)	8 bar / 8.8 cfm
3	1 x Light commercial tyre	N72SAGC2	83 l/min (2.94 cfm)	8 bar / 8.8 cfm
4	4 x Light commercial tyres	N72SAIC34	167 l/min (5.89 cfm)	10 bar / 17.7 cfm
5	1 x Truck tyre	N72SAGC3	167 l/min (5.89 cfm)	10 bar / 17.7 cfm
6	4 x Multiple truck tyre	Contact PCL		
7	EM/OTR tyres	Contact PCL		

NO.	EXAMPLE APPLICATION (NON TYRE)	P
1	Low flow and pressure purging of electrics +/- 3% 02	Ν
2	Low / medium flow & pressure purging of electrics +/- 3% O2	Ν
3	Feeding small nitrogen storage vessel <1000L +/- 3% 02	Ν
4	Feeding bulk nitrogen storage vessel +/- 3% O2	C

	PART NO.	MAX FLOW RATE	
	N72SAGC1	50 l/min (1.77 cfm)	8 bar / 5.3 cfm
	N72SAGC2	83 l/min (2.94 cfm)	8 bar / 8.8 cfm
2	N72SAGC3 Contact PCL	167 l/min (5.89 cfm)	10 bar / 17.7 cfm

NO. ACCESSORIES / SPARES 1 Nitrogen percentage analyser

2	Replacement oxygen sensor for N2A001
3	Spares for N72 range

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PART NO.

N2A001	
N2AS001	
Contact PCL	







Why Nitrogen?

Reduce pressure loss

Nitrogen has a larger molecular structure than oxygen so it migrates through the rubber tyre wall much slower and reduces the speed of pressure loss.

Reduce unwanted pressure changes

Nitrogen is a dry gas which reduces energy build up inside the tyre on long journeys. This prevents unwanted pressure increases and uneven tyre wear.

Reduce tyre and wheel rim wear

Nitrogen is a dry gas which means it doesn't oxidise or react with materials it comes into contact with such as the inner tyre wall and inner wheel rim.

• Reduced Fire Hazard

Fire needs Oxygen. By removing this and replacing with completely inert Nitrogen you are removing the potential for tyre fires in hazardous environments.

How can inflating with Nitrogen benefit the road user?

Reduce fuel consumption

By reducing the migration of gas through a tyre it will stay inflated correctly for longer. This prevents extra rolling resistance on the engine and subsequent increase in fuel use.

Reduce Tyre Wear

Tyres that stay inflated to the correct pressure for longer will last for an extended period. If the correct amount of rubber is in contact with road surface the tyre tread will wear at a much slower rate.

How can offering Nitrogen inflation benefit the tyre service provider?

Increase profits

Average charge is £1.50 per tyre - pays back the cost of a Nitrogen generator very quickly then all revenue is PROFIT.

Increase customer retention

Offer free Nitrogen top-ups for life once customer has paid for a conversion and keep them coming back!

All orders are subject to our standard terms and conditions – available on request. In line with our continuous improvement programme, we reserve the right to amend or revise the specification of our products without prior notice. Published August 2018. E. & O.E.

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