

NITROGEN™

Tyre Inflation System

- *Better Tyre Pressure Retention*
- *Enhanced Tyre Life*
- *Better Fuel Economy*
- *Improved Safety*

THE REVOLUTION STARTS INSIDE.

IR Ingersoll Rand

Vehicle Services



Nitrogen Tyre Inflation System. A revolutionary approach to tyre technology.

Nitrogen Tyre Filling. A competitive advantage.

Now, Ingersoll-Rand offers you a choice. You can use nitrogen, not just air, to fill tyres with the new Nitrogen Tyre Inflation System. A revolutionary technology in tyre inflation. You gain a competitive edge by enhanced tyre pressure retention. Bringing tyre inflation and, in turn, travel to a new level. Creating a new source of revenue for your business while improving tyre performance, road safety and cost savings for your customers.

Better air pressure retention. The single biggest reason for tyre failure is poorly maintained tyre pressure. In fact, 54 percent of all vehicles on the road have low tyre pressure. Oxygen in compressed air can permeate the tyre wall reducing tyre pressure. With nitrogen, diffusion is 30 to 40 percent slower than oxygen. As a result, nitrogen maintains tyre pressure longer than air.

Enhanced fuel economy. Maintaining tyre pressure can boost fuel economy by up to 6 percent. This is due to two factors, reduced rolling resistance from proper tyre pressure and reduced heat in the tyres. Nitrogen disperses heat more quickly than ambient air, thus minimising heat build-up in tyres and enhancing fuel efficiencies.

Longer tread life. With quicker heat dispersion, you get a cooler running tyre which helps extend tread life and reduce tyre failure. Nitrogen also prevents oxidation which can not only lead to tread separation and belt failure but, when combined with moisture, corrode rims. In fact, moisture can result in rust flakes that can fall into the valve stem, block the valve and cause under-pressurisation. It can even cause the valve stem itself to rust.

Slow chemical aging. Filling a tyre with nitrogen also significantly slows the chemical aging process of the tyre's rubber components. This leads to fewer catastrophic failures like blowouts. Slower aging lengthens tyre core life, which yields extra retreads and lower fleet costs.

Ingersoll-Rand Nitrogen Generators. The tyre industry's preferred technology.

Nitrogen generators employ advanced membrane technology for flawless performance, day in and day out. Generator modules are comprised of a bundle of hollow-fibre membranes that separate nitrogen from the air. When the compressed air passes through the fibres, oxygen, water vapour and other trace gases permeate the membrane, due to their smaller molecular size. Nitrogen, which doesn't permeate the membrane, flows through the outlet port to the application.

A fully integrated system from the air compressor experts.

Innovative technology is complemented by unmatched experience and expertise. The Nitrogen Tyre Inflation Systems are an extension of a facility's existing compressed air system. Proper sizing and a balanced air system are important, depend on the compressor experts. With over 100 years of compressed gas experience, your Ingersoll-Rand representative can design the best solution for your business.



NASCAR® team owner and three-time Winston Cup champion Ray Evernham has built his reputation as an outstanding leader, on and off the track. Ray knows what it takes to get ahead – like using nitrogen-filled tyres to enhance performance, tyre life and handling on the race track – and now, on the street.



Nitrogen Generators

Model Number	Inlet Pressure (barG)	Nm ³ /hr* N2	Outlet Pressure (barG)	N2 Purity	Dimensions (cm)			Weight kg
					L	W	H	
N2GE33	7 to 10	2.0	Inlet minus 1bar	95%	47.80	12.65	81.32	30
N2GE50	7 to 10	3.0	Inlet minus 1bar	95%	47.80	12.65	81.32	30
N2GE166	10 to 13	10.0	Inlet minus 1bar	95%	55.55	15.40	84.35	35
N2GE333	10 to 13	20.0	Inlet minus 1bar	95%	55.55	15.40	84.35	35
N2GE500	10 to 13	30.0	Inlet minus 1bar	95%	55.55	15.40	84.35	40
N2GE666	10 to 13	40.0	Inlet minus 1bar	95%	55.55	15.40	84.35	40

* Normal Conditions : Feed Pressure 10 barG, Ambient Temperature 20°C, Ambient Pressure 1,013 mbar(a), Generating 95% purity.

Product Features

- No extra filling time compared to compressed air.
- No air consumption when not in operation; nitrogen created on demand provides energy savings.
- Can be connected directly to your existing compressed air lines.
- Delivers high - quality nitrogen at the purity required for tyre inflation.
- Compact design for minimum space requirements.
- Non-degrading membrane technology, 2-year warranty
- Wall mounted to leave your workshop clear of obstructions.
- Quiet Operation.
- No power supply required - fully self contained.

Product Specifications

Separation Method	Semi-Permeate membrane
Operating Temp Range	10°C to 40°C
Nitrogen Purity	95% to 99%
Noise Level	< 45 db(A)
Pre-Filters	2 Coalescing - 1µ and 0.01µ
Automatic Pressure Switch	1 barG range

NITROGENTM
Tyre Inflation System



All the merchandising support you need.

Your customers will have all the information they need to understand the value of nitrogen-filled tyres. A comprehensive marketing program, including point-of-sale materials, will drive customers to ask about the technology and, ultimately, to prefer it.



Nitrogen Tyre Inflation System.

Accessories

Model	Description
N214 - 30	30ft 1/4" Green Recoil Hose
N214 - 10	10ft 1/4" Green Recoil Hose
N2 - 224	Green Valve Stem Caps (1000/bag)
N2 - 120	Tyre Inflator with Gauge
N2 - 201	Tyre Pressure Gauge
N2G - 02 - HH	Nitrogen Analyser

Marketing Materials

Model	Description
VSS - 0504 - 019	Nitrogen Tyre Bay Banner
VSS - 0504 - 020	Nitrogen Tyre Cover
VSS - 0504 - 022	Nitrogen Counter Top Display
0401 - G	Nitrogen Tyre Filling Brochure



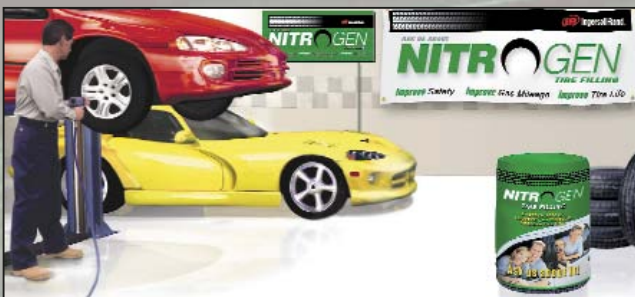
N214-30



N2-224



N2G-02-HH



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