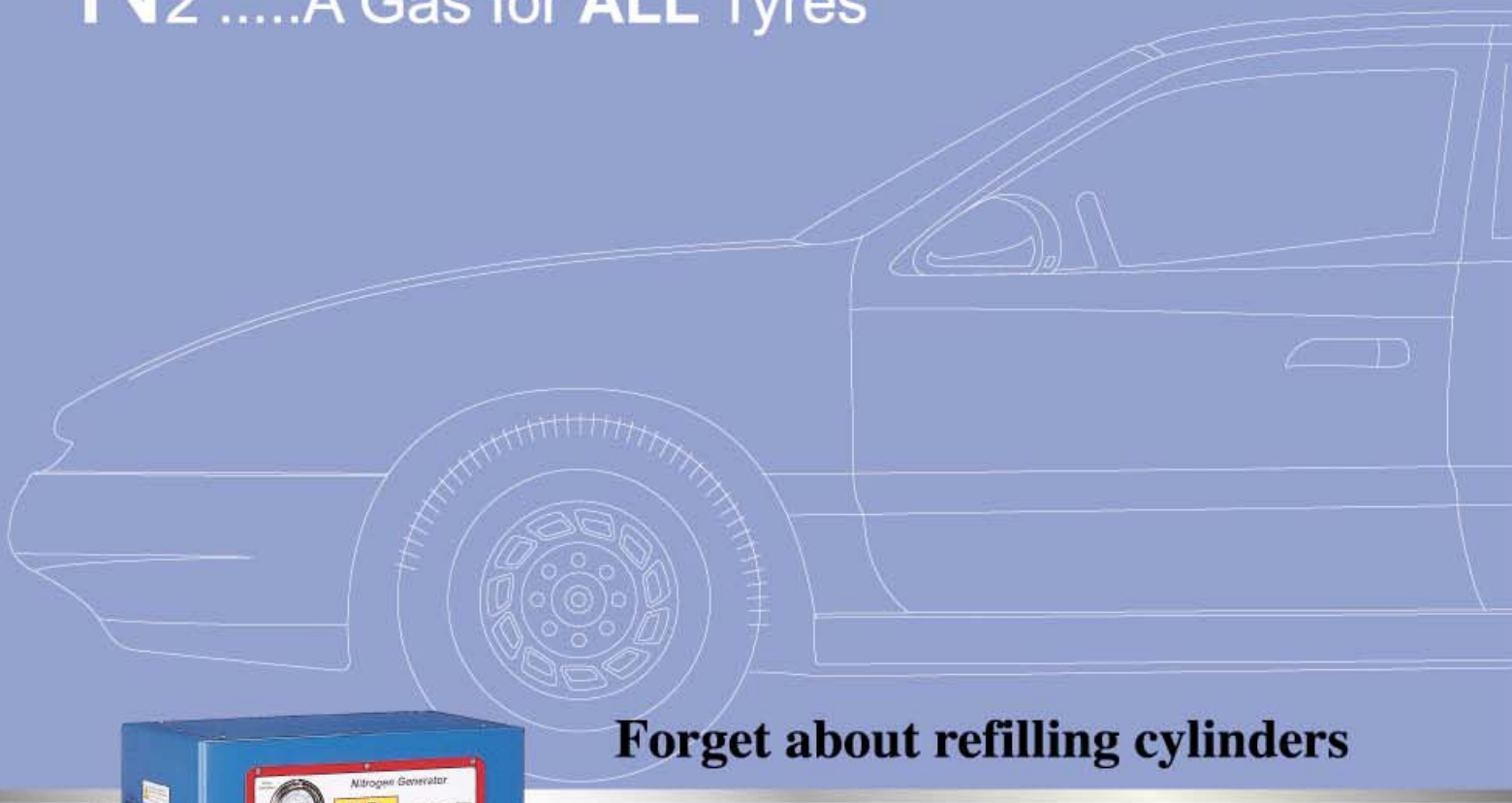
NitroRide®

N_2 .....A Gas for **ALL** Tyres



Forget about refilling cylinders

CE

JIA Sources International Ltd.

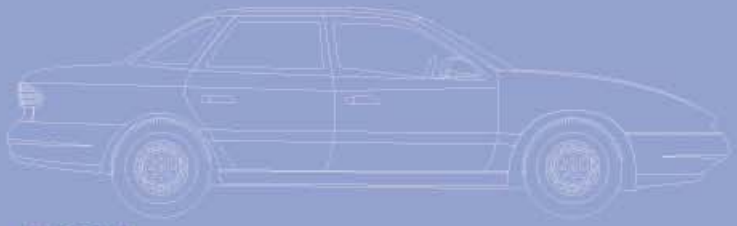
NR 200/220 ideal for Bikes/Cars/Caravans/ 4X4 and light truck tyres

NR 200

Ergonomic design, robust unit to meet the needs of the small to medium tyre /service shops.

- Generates Nitrogen at a rate of 1084 Lts/Hr
- Integral 42 Lt storage tank.
- Integrated Vacuuming system for removing the air out of the tyre before filling with N2.
- 3 high grade filter separation system.
- Inlet/outlet pressure indicators along with a Filter Condition gauge.

Model	NR200	NR220
Recommend input pressure	12 kgs/cm²	12 kg/cm²
Purity of Nitrogen	95-99.5%	95-99.5%
Storage tank size	42 Lts	84 Lts
Output Pressure	12 kgs/cm²	12 kgs/cm²
Nitrogen capacity	18Lts/Min	38Lts/Min
Dimensions	420X300X1220mm	520X300X1220mm
Weight	58Kgs	79Kgs
Vacuum Generator	Supply Pressure	8~16 Kg/cm²
	Volume	700-mmHG



NR 220

Design to produce high volumes of nitrogen, to comply with the ever increasing demand of the professional tyre/service shop environments.

- Generates Nitrogen at a rate of 2280 Lts/Hr
- A large 84Lts storage tank.
- Integrated vacuuming system for removing the air out of the tyre before filling with N2.
- 3 high grade filter separation system.
- Inlet/outlet pressure indicators along with a Filter Condition gauge.

NR 500 ideal for Bikes/Cars/Carvans/4X4/ Bus and large tyres

NR 500

A unique, universal design unit able to cope with the small bike tyre right up to the large bus and truck tyres.

- Generates Nitrogen at a massive rate of 12000 Lts/Hr
- A large 84Lts storage tank.
- 3 high grade filter separation system.
- Inlet/outlet pressure indicators along with a Filter Condition gauge

Model	NR500
Recommend input pressure	14 kgs/cm²
Purity of Nitrogen	95-99.5%
Storage tank size	84 Lts
Output Pressure	12 kgs/cm²
Nitrogen capacity	200 Lts/Min
Dimensions	650X360X1320mm
Weight	95Kgs

Optional Accessories

Auto-fill

inflation system, the only way to inflate tyres accurately and efficiently.

Auto-fill

Purity gauge

internal device to guarantee the purity of the nitrogen that is being supplied.

Air operated **Vacuuming system,** used to prepare the tyre before inflation

Purity gauge

Vacuuming system

Benefits of inflating tyres with NITROGEN are well known
But availability has been problematic.....Until NOW !!

A tyre is a membrane

Compressed air - the traditional medium for inflating car tyres - contains both oxygen (21 %) and nitrogen (78%). A rubber tyre is like a membrane, through which oxygen permeates three times faster than nitrogen.

As a result the oxygen slowly leaks out through the rubber walls which lead to under-inflation. This in turn leads to higher tyre wears, decreased safety and comfort, and higher fuel costs. In addition, compressed air contains high levels of moisture, which can accelerate the corrosion of the tyre rim.

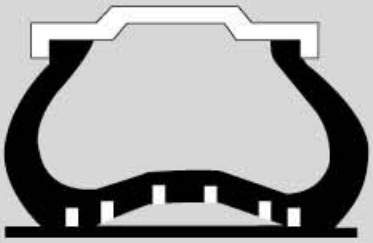
Nitrogen in tyres

Nitrogen is used in tyres to avoid air leaking through the tyre wall which results in under-inflation. The reason why nitrogen is used is because it is easy to produce, does not support combustion, has no smell and is also a component of atmospheric air.

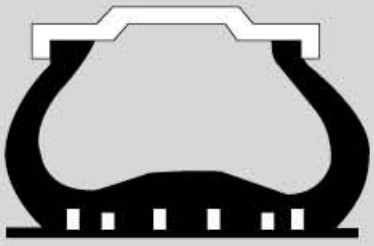
The difference between the pressure in a tyre and the pressure outside causes oxygen to permeate through the tyre. If we can create the same concentration of oxygen inside and outside tyre (equal partial pressure) then oxygen is not forced to leak through the tyre wall.

Using nitrogen in tyres maintains the correct pressure, and reduces all problems associated with under inflation

UNDER INFLATED



CORRECTLY INFLATED



Correct inflation versus under inflation

Correct inflation is highly significant when considering tyre life and performance. It is not always possible to look at a tyre and detect under-inflation. However, under-inflation can cause many tyre-related problems. As inflation pressure largely determines a tyre's load capacity, under-inflation results in an overloaded tyre. An under-inflated tyre operates at high deflection resulting in decreased fuel economy, sluggish handling and may result in excessive mechanical flexing and heat build-up leading to catastrophic tyre failure.

Advantages of nitrogen in tyres

- Longer term stability of the tyre pressure
- Better grip and handling
- Reduced fuel consumption
- Longer tyre life
- Enhanced safety
- No oxidation within the tyre

Please contact our distributor:

JIA..... NitroRide your way forward !!

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