



Nitrogen Tire Inflation System

Nitrogen Tire Inflation System FS-6000B

PSA (Pressure Swing Adsorption) Tire Nitrogen Machine, being used widely, does not need high cost equipment's, land and high salary maintenance technicians, but it can produce Nitrogen with low cost, high purity and low dew point. It is based on using the latest PSA technology and utilizes Carbon Molecular Sieve (CMS) to separate nitrogen from the other gases contained in air. When the air is compressed, N₂ and O₂ make up of most part of the air, however, oxygen molecules are much smaller than nitrogen and their diffuse speed is different, by using this point, the gas can be separated. After this process is finished, the CMS adsorbs the oxygen molecules, so the nitrogen produced by PSA has high purity and low dew point. Generally speaking, it is very easy to obtain the nitrogen with purity 99% and dew point -60°C. Our company is able to design and manufacture according to user's requirements. The highest purity of nitrogen can be reached 99%. The compressed air in the tire consists 20.9% of oxygen with heavy moisture, and oxygen is not stable in the tire. When the tire heats, oxygen will permeates through the tire wall. The test shows that the pervasion can stop till the pressure under the condition of 7 bar and the oxygen falls by 5%. Oxygen and moisture are harmful to the tire and wheel hub

Vehicle Applicable	Motorcycles, Cars, Vans, Mini buses and Light trucks
Power Supply	AC 220V 50Hz
Power	60W
Nitrogen Purity	99% 99.5%
Input Air Pressure	100-145 psi (8-10 Bar)
Output Nitrogen Pressure	14.5-87 psi (1-6 Bar)
Nitrogen Flow	2.8-7 m ³ /H(3.6)
Working Temperature	-20°C ~ +70°C
Test Range	14.5 ~ 87psi (1-6 Bar)
Breaking Pressure	>145Psi (>9.99Bar)
Accuracy	± 1%psi
Display Mode	115×54 (mm) LED display
Dimension	1400×680×580(mm)
Configurations	Built-in Electric Control Vacuum Device 120L Built-in Nitrogen Storage Tank 8 M High Pressure Charge Hose



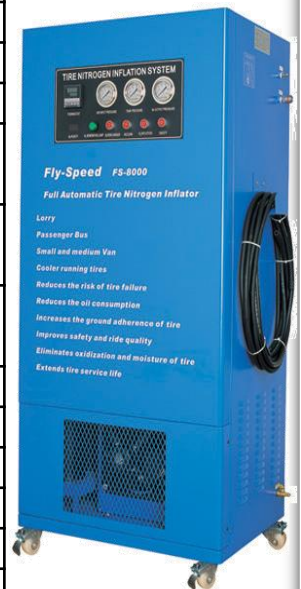
Note:

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Nitrogen Tire Inflation System FS-8000

PSA (Pressure Swing Adsorption) Tire Nitrogen Machine, being used widely, does not need high cost equipments, land and high salary maintenance technicians, but it can produce Nitrogen with low cost, high purity and low dew point. It is based on using the latest PSA technology and utilizes Carbon Molecular Sieve (CMS) to separate nitrogen from the other gases contained in air. When the air is compressed, N₂ and O₂ make up of most part of the air, however, oxygen molecules are much smaller than nitrogen and their diffuse speed is different, by using this point, the gas can be separated. After this process is finished, the CMS adsorbs the oxygen molecules, so the nitrogen produced by PSA has high purity and low dew point. Generally speaking, it is very easy to obtain the nitrogen with purity 99% and dew point -60°C. Our company is able to design and manufacture according to user's requirements. The highest purity of nitrogen can be reached 99%. The compressed air in the tire consists 20.9% of oxygen with heavy moisture, and oxygen is not stable in the tire. When the tire heats, oxygen will permeates through the tire wall. The test shows that the pervasion can stop till the pressure under the condition of 7 bar and the oxygen falls by 5%. Oxygen and moisture are harmful

Vehicle Applicable	Motorcycles, Cars, Vans, Mini buses and Light trucks
Power Supply	AC 380V 50Hz
Power	2.0 Kw
Nitrogen Purity	95%
Working Temperature	+5°C~+70°C
Compressed Air Pressure Required	145 Psi /10 Bar/10 Mpa
Air compressor Discharge Rate	1.08 M ³ /Min
No Incremental, Output Nitrogen Pressure Required	87 Psi /6 Bar/6 Mpa
Incremental Nitrogen Output	232 Psi/16 Bar/16 Mpa
Nitrogen Capacity	300L
Nitrogen Producing Speed	160L/Min
Truck Tire (10.00/20 R75 size)	15 Tires/Hour
Display Mode	LED Digital Display
Dimension	1700 (H) × 800(L) × 700(W) mm



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Nitrogen Tire Inflation System FS-4000

- Intended to generate nitrogen from compressed air with carbon molecular sieve (CMS) based on PSA (pressure swing adsorption) separation technology
- Mainly constructed with filtration device, carbon molecular sieve, N2 reservoir, and control system
- Pressure regulator is equipped to limit pressure of input compressed air
- Pressure relief valve is provided for whole pressure system
- Silencers are equipped for exhausting gas to reduce sound level
- Equipment adopts high octane BF-200 carbon molecule sieve and core accessories are imported
- Equipment adopts silicon oil pressure gauge with good shockproof function
- For compatible medium compressed air is filtered twice
- Primary filtration: three class precision filter
- Secondary filtration: active carbon filtration device with capacity
- By presetting pressure, equipment can vacuum automatically, filling N2 and testing pressure
- Pressure sensor with high precision made by US Nova sensor
- Vehicle applicable: motorcycles, cars, vans, mini-buses, and light trucks

Technical Data

• Vehicle Applicable:	• Motorcycle, car, van
• Power supply:	• AC110V/220V50~60Hz
• Power :	• 60W
• Nitrogen Purity :	• 95~99.5%
• Compressed Air Input Range :	• ≤174Psi/12Bar
• Nitrogen Output :	• 66L/min(2.3cfm)@145psi/10bar
• Nitrogen Storage Tank:	• 70L/18.5gal
• N2 Output Pressure:	• ≤98psi/6.8bar
• Operation Temp:	• -20°C~+70°C
• Set Pressure Range:	• 5~110Psi/0.3~8Bar
• Inflator Accuracy:	• ±0.5psi/0.03bar
• Display Mode :	• LED display
• Dimension:	• 1420(H)×700(L)×510(W)mm
• Net weight:	• 129KG
• Packing size:	• 600(H) ×760(L) ×620(W)mm
• Gross weight:	• 147KG




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