

TireSaver

Nitrogen Tire Inflation Systems



Customer Value Proposition:

Nitrogen is a dry, inert gas used to inflate airplane tires, off-road truck tires, military vehicle tires and race car tires. When tires are inflated with compressed air, oxygen in the air permeates through the wall of the tire reducing the tire's inflation pressure and causing premature aging. Dry nitrogen will permeate more slowly through the tire. Inflating your fleet tires with nitrogen will improve safety and performance while reducing operating costs.



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Product Features:

- Produces high purity (95-98%) nitrogen from compressed air
- Portable stand design
- Allows inflation of up to 68 truck tires per hour
- Requires no storage of nitrogen
- Operates in the low pressure range up to 150 psig
- Inflates tires at the same rate as compressed air
- Includes two stages of high efficiency prefiltration and oil removal filtration
- Extends tire life by up to 25%
- Improves fuel efficiency by up to 3.3%
- Provides more consistent tire pressure
- Prevents auto-ignition of tires
- Eliminates rim corrosion
- Results in tires operating at lower temperature



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Product Information and Specifications

The benefits of inflating tires with nitrogen as opposed to compressed air have been well known to the tire and transportation industries for many years. In general, filling tires with nitrogen improves tire life, reduces operating costs and improves safety.

Until recently, there has not been a convenient, reliable, economic means of providing nitrogen to inflate tires. In the past, nitrogen would be provided in large liquid tankers transferring the nitrogen to large storage vessels or as a gas in high pressure cylinders at 2500 psig.

In recent years membrane technology has been developed to purify air into a stream of high purity nitrogen. This technology is being used by Racor TireSaver Nitrogen Tire Inflation System.

The portability of the Racor TireSaver allows truck owners and maintenance personnel to bring the nitrogen straight to any vehicle in a quick and safe manner.

Nitrogen will help to extend tire life by reducing premature failure of tires. The causes of premature tire failure which are affected by oxygen include:

- Rubber deterioration by oxidation
- Rim corrosion
- Under-inflation
- Overheating
- Pressure increase due to heat build up
- Uneven wear due to improper inflation

Tires are one of the primary costs of operating a fleet of vehicles. Tire costs include procurement, maintenance and the cost of blowouts.

A typical truck tire with two retreads costs \$480.00 and lasts approximately 270,000 miles. Inflating tires with nitrogen will help to prevent premature casing failure and allow tires to be retread multiple times, with confidence and reliability. Inflating tires with nitrogen to eliminate oxidative aging might extend tire life by up to 25%. Increasing tire life to 337,500 miles would save \$120 per tire. A fleet with 50 trucks and 900 wheel positions would save over \$100,000 in tire cost by inflating with nitrogen.

The primary cost of maintaining tires is the cost of labor to check tire pressures and top off tires with compressed air on a periodic basis. Tire pressure must be checked and the tires topped off due to the diffusion of air through the tire. Tires filled with nitrogen will not experience this diffusion and resulting loss of pressure.

Tires filled with nitrogen maintain pressure for a much longer period of time than tires filled with air. If a truck fleet conducts preventative maintenance on 5 trucks per day and presently spends 30 minutes per truck topping off tires, they could realize

savings of \$31,250 per year based on a labor rate of \$50 per hour and 250 work days per year, by inflating tires with nitrogen.

Customer Reactions

“I don’t have to waste time during routine maintenance topping off tires, just a quick check does it. It’s a real time saver.”

- Long Haul Fleet Owner

“As a result of filling tires with nitrogen, we save about one half hour per PM for each truck”

- Long Haul Fleet Owner

“With reduced blowouts, I have saved significant costs in fewer damaged custom automobiles and axles, brake systems and tie down rollers on my trucks”

- Auto Transport Fleet Owner

“We reduced blow outs from 15 per month to just 2 by using nitrogen”

- Small Auto Transport Fleet

“Nitrogen eliminated an uneven wear problem we had with our vehicles”

- Chief of Police

Part Number	Description	N2 Flow @ 95% purity, 145 psig, scfm
TS076-00BCB0	Portable Unit	7.6
TS123-00BCB0	Portable Unit	12.3
TS076-0000A0	Tankmount Unit	7.6
TS123-0000A0	Tankmount Unit	12.3
TS076-00B0A0	Tankmount Unit with Autoinflator	7.6
TS123-00B0A0	Tankmount Unit with Autoinflator	12.3
TS076-000000	Wallmount Unit	7.6
TS076-000000	Wallmount Unit	12.3
TS20F	Cabinet Unit	19.9
TS34F	Cabinet Unit	34.0
MTS06	Mobile Unit	6.0
MTS12	Mobile Unit	12.0

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