

Nitrogen Tire Inflation System for Tire and Auto Dealers

UltraFill™ 99+
High-Purity Nitrogen Tire Inflation



Why Use Nitrogen?

Underinflated tires cause reduced fuel efficiency, shorter tire life and greater risk of accident.

While compressed air is suitable for tires, nitrogen is a better alternative. Air is a mixture of mostly nitrogen (78%) and oxygen (21%). Oxygen passes through tire rubber 3 to 4 times faster than nitrogen. Replacing oxygen with nitrogen maintains pressure longer maintaining both fuel economy and a proper wear pattern.

Nitrogen is completely safe and is used for extreme tire applications such as aircraft, military vehicles and auto racing.

Using nitrogen instead of air also eliminates much of the oxidation that can break down tire rubber compounds and corrode wheels.

Perhaps most important, nitrogen helps ensure proper pressure for better road handling, steering and braking.

UltraFill 99+ Benefits for Your Business

Customers already come to you because they trust you and rely on your services. UltraFill 99+ nitrogen tire inflation brings new value to customers by increasing safety and helping them contribute to energy and environmental conservation. When the benefits of

nitrogen are explained, customers are willing to pay for it.

Whether offering nitrogen tire inflation as complimentary service or as a new revenue stream, you come out ahead with the increased business it brings.

With the UltraFill 99+ system, you will offer the best to your customers.

A New Revenue Stream For You

Annual Revenue Based on 300 Days / Year Operation

Service Orders / Day		UltraFill Price Per Car		
Total	UltraFill	\$9.99	\$19.99	\$39.99
10	3	\$9,000	18,000	\$36,000
20	6	\$18,000	\$36,000	\$72,000
40	12	\$36,000	\$72,000	\$144,000
Target Vehicle Repair Orders = 30% of Customers				

Depending on the number of vehicles serviced per day, payback can be in just a few months.



100% inflated



70% inflated

Most motorists cannot tell when their tires are low. One of these tires is fully inflated. The other is 30% low (about 9 psig!). Even the new TPMS do not signal low pressure until tires are 25 to 30% low.

UltraFill 99+ Benefits for Your Customers:

Better safety and performance

Correct tire inflation offers better traction, steering and braking control. It also reduces the possibility of blow outs, which are commonly caused by under-filling.

Better Gas Mileage

With gas prices so high, your customers want the best fuel economy possible. Proper inflation reduces rolling resistance and maximizes fuel economy. The United States Department of Energy estimates over 2 million gallons of fuel are wasted each day due to under-inflation.

Extended Tire Life

Extending tire life lowers purchase and disposal costs. Properly inflated tires have more even road contact and last longer. Replacing oxygen with nitrogen slows or even eliminates oxidation which can prematurely age tire rubber and damage metal rims.

Convenience and Peace of Mind

Nitrogen filled tires maintain pressure up to three times longer. Studies show that as many as 85% of motorists do not properly check their tire pressure and that at least 25% are driving on under-inflated tires.

Better Performance of TPMS

Tire Pressure Monitoring Systems will be more accurate with nitrogen. Compressed nitrogen has virtually none of the moisture and contaminants of compressed air and it is thermally stable compared to air.

UltraFill™ 99+

High-Purity Nitrogen Tire Inflation

The Best In-Tire Purity

Used together, the UltraFill 99+ nitrogen generator and AutoFill Cart achieve an industry leading 95+% in-tire nitrogen purity.



1 UltraFill 99+ Nitrogen Generator

The UltraFill 99+ system produces the highest purity nitrogen commercially available for tire inflation. It offers twice the continuous operating capacity of other systems its size. A single unit produces 4 scfm and supports multiple service bays and enables you to fill multiple tires at once. UltraFill 99+ uses the industrial pressure swing adsorption process to separate nitrogen from air, and it is far more efficient than membrane separation systems, which need more electricity and more compressed air.

2 Simple Operation - Low Maintenance

The UltraFill 99+ system comes complete with hoses and electric cord and is easy to install (usually in under an hour). Incoming compressed air can be hard-piped in, or use a hose with standard quick release connection for added flexibility. The Generator plugs into a standard 120VAC @ 60 Hz outlet.

Maintenance could not be simpler. Periodically check the filter maintenance indicator and replace the filters annually. The ease of maintenance combined with the industrial design enables us to offer a five year limited warranty standard.

3 Automatic Tire Inflation Cart

The AutoFill Cart automatically purges air and refills tires with 99+% pure nitrogen to reach an in-tire purity of 95%. It can also be used to top off tires with nitrogen.

To operate, simply select desired pressure on the digital LCD panel using +/- keys. Visual and audible alarms let you know when tires are filled to the pressure specified. The controls are powered by a built-in rechargeable battery.

Six hose ports let you fill multiple tires at once. Comes with four hoses with 1/4" locking chucks.

4 Mobility is Flexibility

Unlike other systems, both our nitrogen generating unit and the fill cart are on wheels. This makes tire filling and top-offs much easier and faster around your shop. The AutoFill Cart can be filled with nitrogen then disconnected from the Generator if desired. It will operate on its rechargeable battery for up to 10 hours.

5 Nitrogen Analyzer Takes Out the Guess Work

Just press one button and the hand-held nitrogen analyzer quickly confirms the purity of newly filled tires or checks the nitrogen level of tires in for service. This self-calibrating device reads from 0 to 100% purity with +/-0.5% accuracy. It features long sensor and battery life, and turns off automatically.



Specifications	Nitrogen Generator		AutoFill Cart
Nitrogen Purity	99.5%	95.0%	delivers 95+% in tire purity
Nitrogen Flow	4 scfm	8.5 scfm	--
Air Consumption	12 scfm	17 scfm	--
Nitrogen Output	4-8.5 scfm		as needed
Tire Filling Capacity	Up to 60 per hour*		Up to 6 at a time*
Nitrogen Dew Point	-50°F		-50°F
Ambient Air Temperature	40-100°F (75°F is optimal)		50-90°F (70°F is optimal)
Inlet Air Pressure	110-160 psig (150 is optimal)		--
Inlet Nitrogen Pressure	--		105-155 psig
Power Supply	115V, 1 phase, 60 Hz		Battery operated, charger incl.
Tank Capacity (gal.)	150 (surge capacity equivalent)		26
Weight (lbs.)	400		100
Dimensions (in.)	32 x 17 x 59		24 x 24 x 52
Inlet/Outlet Connections	3/8" NPT		3/8" Quick-connect Female
Noise Level	70 dB(A)		--
Filters	5 micron, 0.01 micron, Carbon		--

*Based on 225/60R16

Specifications are subject to change without notice.

A Great Start to Your System

- A Kaeser AirCenter is an ideal source of compressed air for your UltraFill 99+
- It is compact and low noise and will fit easily in most shops
- The integrated dryer, filter and autodrain prepare the compressed air perfectly for the Nitrogen Generator
- AirCenters are available in many sizes to handle not only tire filling but all your compressed air needs



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The Air Systems Specialist

With over 85 years of experience, Kaeser is the air systems specialist. Our extensive 100,000 square foot facility allows us to provide unequalled product availability. With service centers nationwide and our 24-hour emergency parts guarantee, Kaeser customers can rely on the best after-sales support in the industry. Kaeser stands committed to providing the highest quality air system for your specific compressed air needs.