



Nitrogen Tire Filling Station

The aircraft industry, race car circuit, and military have been using Nitrogen to inflate their tires for years now. Nitrogen has been proven as the choice for maintaining proper pressure in your tires, therefore adding to the life of your tires, improving gas mileage, and ensuring your rims are not damaged due to low tire pressure. Nitrogen is a clean, dry, non-flammable, inert gas which makes up 79% of the air you breathe. It is known that the Oxygen within compressed air tends to permeate through the rubber tire wall. Thus the constant need to "top off" tires with compressed air to maintain the proper pressure as specified from the manufacturer. Nitrogen, being a significantly larger molecule than Oxygen, will not permeate as quickly through the tire wall. A Nitrogen fill for the tires will increase safety and reduce operating costs, while improving the performance of the vehicle.

South-Tek's line of *TireBlast™* systems creates its own pure N₂ from the air and makes it readily available for tire filling on demand, increasing tire life and customer satisfaction.



The *TireBlast™* is compact, uses minimal shop space, runs quiet, and can be mounted to the wall or mounted to the Nitrogen storage tank (available option). The *TireBlast™* will fill tires at the same rate as you would with a compressed air system. Installation is simple, requiring a connection to the existing compressed air line and in turn the tire filling line can be connected directly to the Nitrogen storage tank. When not filling tires with Nitrogen, the *TireBlast™* does not consume compressed air, thus an energy savings, plus the *TireBlast™* does not require electrical connections. The *TireBlast™* has three stages of high efficiency pre-filtration, ensuring system integrity throughout the life of the unit. The *TireBlast™* comes in three compact system sizes matched to the various auto tire shop, tire-filling requirements. POP, automatic inflator/deflator, and installation component options are available from South-Tek.

TireBlast™

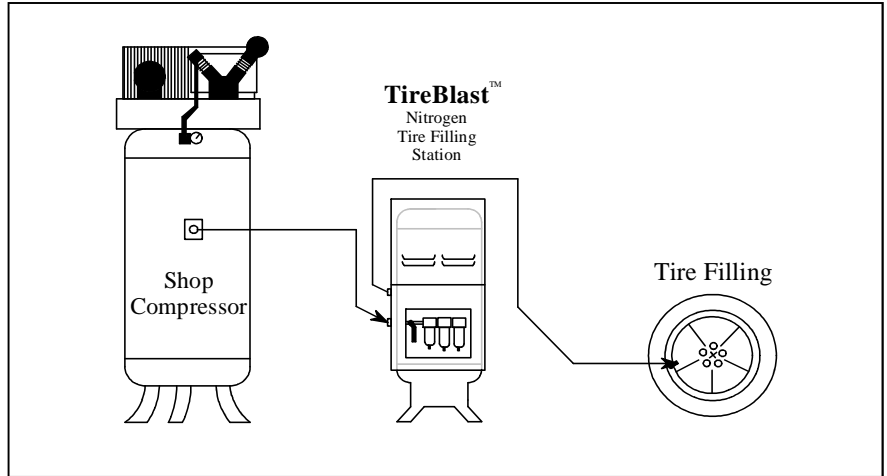


TireBlast™ NT-130

Designed to handle the high volume auto dealerships, capable of filling up to 130 tires per hour (195/65/R15 size). Available with a 30, 60, or 80 gallon Nitrogen Storage Tank. **TireBlast™ NT-250/NT-375** models available for truck depot & maintenance operations.

How the TireBlast™ System Works

The *TireBlast™* simply generates Nitrogen from the air. The *TireBlast™* system flows compressed air through a semi-permeable membrane to mechanically separate the larger Nitrogen molecules from the other smaller molecules. Once the Nitrogen is "filtered out", it is stored in a Nitrogen storage tank making it available at tire filling pressure.



TireBlast™ NT-20/NT-40

Designed for the small to medium volume auto tire shops, capable of filling up to 20/40 tires per hour (195/65/R15 Size). **TireBlast™ NT-XL** No matter how large the tire filling operation, South-Tek Systems can design and manufacture any size Nitrogen Generator to specifically meet your needs.

Product Specifications	TireBlast™ NT-20	TireBlast™ NT-40	TireBlast™ NT-130
Nitrogen purity (min.)	95% +	95% +	95% +
Nitrogen Flow Rate	1.125 scfm	2.25 scfm	7.2 scfm
Maximum Tire Fills per Hour	20 (195/65R15 size)	40 (195/65R15 size)	130 (195/65R15 size)
Nitrogen Outlet Pressure (min.)	100 psig	100 psig	100 psig
Nitrogen Dewpoint	-40°F	-40°F	-40°F
Ambient Temperature	35 to 90°F	35 to 90°F	35 to 90°F
TireBlast™ Cabinet Size	30"H x 16"W x 8"D	30"H x 16"W x 8"D	42"H x 14"W x 10"D
TireBlast™ Weight (w/ tank)	45 lb. (243 lb).	50 lb. (248 lb).	70 lb. (268 lb).
TireBlast™ Cabinet Mounting	tank, wall or floor	tank, wall or floor	tank, wall or floor
TireBlast™ Electrical Req.	None	None	None
Nitrogen storage tank	60 gallon (20" dia. x 52" h)	60 gallon (20" dia. x 52" h)	80 gallon (20" dia. x 63" h)
Compressed Air Pressure Req.	125 – 175 psig	125 – 175 psig	125 – 175 psig
Compressed Air Consumption	2.1 scfm	4.4 scfm	13.8 scfm
Compressed Air Temperature	35°F to 100°F	35°F to 100°F	35°F to 100°F

TireBlast™ models are also available with Nitrogen flow rate outputs of 14 scfm, 21 scfm or Customer Specific Engineered sizes.

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