

NITROGEN TYRE FILLING SYSTEM

TyreGas

3.3 & 4.1

Fill your tyres with nitrogen!
This saves fuel, prevents unnecessary tyre wear and is a lot safer!

The TyreGas nitrogen generators from Avilo have been specially developed for tyre filling applications.



Why use nitrogen to fill tyres

The air that we breathe daily and also use for our car tyres contains $\pm 78\%$ nitrogen, 21% oxygen and 1% other gases such as Argon, Ozon and CO₂. The oxygen in the air has the property of seeping through rubber. Like a balloon that shrivels over time, a large tyre can lose up to 200mbar of pressure in 1 month. Nitrogen doesn't do this and keeps tyre under pressure, but that's certainly not the main reason why it's much better to fill your tyre with nitrogen.

40 Tyres a hour

Supplied with a compressed air pressure of 8 bar, these systems produce 50 liters (TG3.3) or 68 liters (TG4.1), 95% pure nitrogen per minute. With these flow rates a maximum of 40 car tyres can be filled per hour.

More capacity needed?

Our TRUCK 23 tyre filling system has a capacity of 200 tyres per hour.



TYREGAS 3.3 & 4.1

The benefits of nitrogen tyre filling for garages & auto workshops

- **Save on fuel and service costs**
Nitrogen keeps the tire inflated and the rolling resistance low. This not only saves fuel, but also shortens the maintenance time of the service department topping up tires.
- **No tarnish & Less wear**
Tyres at pressure wear less and therefore last longer. In addition, nitrogen prevents deterioration of the rim, the rubber and the cord layers inside the tyre. Nitrogen reduce these negative effects.
- **No moisture... No blowout!**
Normal air contains a lot of moisture, which expands when the temperature rises. The changing of the seasons, but even more so – driving itself – will increase the temperature in the tyre. A blowout is caused in 80% of cases by moisture that expands in the tire when the temperature rises. Nitrogen is a very dry gas that does not react to temperature and is therefore much safer.
- **Favorable Return-On-Investment**
The investment in a nitrogen system for garages & auto workshops is guaranteed to have a positive ROI. Often the compressed air required for a nitrogen generator is already available, which further reduces the investment costs. Tires are filled with relatively low purity nitrogen, which means that a nitrogen generator based on membrane technology can be used. These systems have hardly any moving parts and are low in maintenance. The expected life of a generator is ± 10 years, within which it pays for itself several times over.

Specifications

TYREGAS	3.3	4.1	
Capacity N ² at 7 bar	50	68	Liter/min
Car Tyres a hour	30	40	
Purity N ²	> 95% (adjustable)		
Max. N ² Pressure	9 bar ¹		
Compressed Air Use	135	180	Liter/min
Compressed Air Quality	Minimal dried by Refrigerant air dryer		
Operating Temperature	5°C – 35°C		
Weight	25kg		
Connections	1/2" G (fm) 1		
Dimensions (H x W x D)	60 x 40 x 30cm		

¹ Inlet pressure at least 1 bar above required N² pressure

Maintenance Kit

AVMK14 Maintenance Kit (12 months)

Required Peripherals

Compressor > 3 kW - 10 bar

N₂ Vessel Min. 270 liter - 11 bar

Avilo can supply all required components for a turn-key nitrogen system

Call us on +31 (0)187 - 481366 or go to avilo.nl

