

FAQ for LPG-Autogas systems

What is LPG?

LPG stays for Liquefied Petroleum Gas , is a flammable mixture of hydrocarbon gases used as fuel in heating appliances, cooking equipment, and almost all kind of engines (Cars, Boats, Trucks...).

Is LPG or Autogas more dangerous than Petrol (Gasoline)?

LPG is less dangerous than Petrol because it has a higher igniting temperature. Petrol (Gasoline) ignites at 246°C and LPG at 470°C. Unlike Petrol tanks, LPG tanks have a high safety standard for the tanks in production. So that LPG tanks must survive a direct impact, it has to be very temperature resistant, and they have a high-pressure safety standard. All LPG tanks that are in production have to go to a safety check and to be certified.

How safe are Autogas systems generally?

In the past 10 years the Autogas industries have become one of the safest Car industries. The safety standard is become so high that many of the manufacturers cannot certify all of the products that they made. The safety starts from the production in the factory and goes all through the end costumers. In the past years every single component has to be certified and approved for LPG use and Safety. Not only the component has to be approved also the mechanics that install these components have to go through an extensive and difficult training to be certified. Workshops and their mechanic have to have these certifications. Not only this, many governments have a in depended certification for a finished Autogas installation, so that all workshop after the installation have to become this certification that the installation is properly set according to all standards.

What effect do LPG have to an engine- can LPG damage the engine?

LPG is a clean burning fuel this prevent the formation of carbon and oil deposits on the internal parts of the engine. Only this fact prologs the engine life. But there isn't only this advantage. LPG is a high octan burning fuel (+100) this means that the engine can run more smoother and it prevents knocking and pre-ignition. Because of only these two facts the life of an engine and maintenance is extended. Installing a Autogas system gives one more advantage and this is that the engine

heats up easier and quicker, even with a fully cold engine. These is an advantage for petrol engines as they get quicker on the working temperature the more efficiency they work, a cold engine produces more unburned fuel and a higher consumption not to mention that this is not environment friendly. Many of the manufacturers are producing bi-fuel engines (Petrol-LPG) and the don't produce separate dedicated LPG engines. Just to mention few of them: Volkswagen, Citroen, Opel, Fiat, Ford, Saab, Skoda, Volvo, Toyota, Hyundai. Indeed, it has been proved that engines with LPG have an extended life.

Is LPG environment friendly?

LPG is more the 80% cleaner then Petrol and Diesel. It creates appreciably less carbon dioxide then petrol. Carbon dioxide is the most significant of the greenhouse gases, causing the long-term climate change. Additionally, LPG emits virtually no soot; it doesn't pose a risk to soil and groundwater and emits lower nitrogen and sulphur oxides (NOx and SOx) than most other fuels.

Economical aspect of LPG?

With LPG you are saving with each mile that you drive. The cost of LPG is more than 60% less than petrol.

How much will my car consumption be on LPG?

This should be calculated case-by-case, all cars are different and we all drive on different way and roads. But in generally the consumption on LPG is approximately 20% higher than the petrol consumption.

How much power will my engine loss when I convert to LPG?

The newest generation of LPG systems have less then 3% loss of power.

How do I maintenance the LPG system?

The LPG system have two lpg filters that needs to be changed every 10.000-15.000km or 1 year.

How do I fill the LPG and do I have to take care of something?

The LPG can be filled almost in every gas station. It have a separate filling point and an filling limiter, so that we don't have to take care how much do we have to

fill. All tanks are limited to 80% of the maximum capacity of the tank for safety reasons.

How much are the cost of an LPG conversion?

The cost are dedicated of different facts and depend from country to country.

Can every engine be converted to LPG?

Almost all engines can be converted to LPG it just depends on the type of injection.

How does the conversion take?

Around 1-3 day per car it depends on the type of the car and the injection system.

Do all filling stations use the same filling point in every country around the world?

The filling points can be different from country to country. It is possible to by an additional filling point adapter for this region in that you are traveling. Example almost all EU countries are using the same filling point.

Can I turn off the LPG system and how?

Yes you can, there is a Switch with a button on it and it can be switched off manually.

Dose the car switch automatically to LPG?

Yes it does, except when you turn it off. When the temperature is reached around 40°C the LPG system will automatically switch to LPG.

Do I need to use different spark plug for LPG?

There are LPG spark plug but it is not necessary to use them.

Do I need to use different engine oil for LPG?

Many manufacturers decelerate that an oil is specified to use only for LPG. We have made the experience that you do not have to use a different oil type for LPG. Every car manufacturer has a specified engine oil code that can normally work with LPG.

Are there different types of LPG tanks?

Indeed, there are two types of tanks that are used for LPG. We have Cylinder tanks and toroidal tanks in all dimensions and capacities.

Will the car automatically switch back to petrol?

The LPG system will automatically switch back to petrol then the LPG tank is empty and if a fault is on the system. (Leak, Faulty injector, Faulty valve)

How do I know how much LPG I have In the tank?

On the LPG switch in the car is a level sensor that is indicating how much LPG is left in the tank.

Can the car start on LPG?

No, this is not possible because it needs the engine temp. to switch to LPG use.

Will my fuel pump work during the use of LPG and can it damage the pump?

Yes it will work this is because of safety reasons but it can not damage the pump because it have a return pipe to the petrol tank.