



- + Innovative Synth Gas Generator.
- + Reduce Fuel Consumption (up to 14%).
- + Reduce Engine Wear & Tear.
- + Reduce Emissions.



FS PURIFIER+ (FS VEHICLE+)

OVERVIEW

With FS PURIFIER+ FUELSAVE is offering an innovative & sustainable & efficient opportunity to reduce permanently the costs for fuel, as well as significantly reduces emissions of vehicles. Our patent pending synth gas generator injects an onboard generated proprietary hydrogen gas into the vehicle engine. An intelligent control unit monitors & secures the different parameters of the synth gas production & injection. The FS PURIFIER+ achieves:

- **Faster Ignition**
- **Cooler & More Efficient Combustion**
- **More Efficient Fuel Combustion**
- **Significant Emission Reduction**

FUNCTION

Hydrogen is the fuel of the future! If the composition & dosing is right, it significantly increases the combustion efficiency of today's engines. Especially when using liquid fuels, like Diesel or Crude Oil (up to 14% fuel efficiencies), but also in combination with gas engines (up to 10% fuel efficiencies). In a unique combination with alcohols/ alkanols for cooling and process acceleration our FS PURIFIER+ achieves a real & revolutionary increase in efficiency. Here it not just simply replaces biodiesel through gas (i.e. Dual-Fuel) but has always a significantly positive emission & energy balance to achieve a real net increase in efficiency that makes economical & ecological sense.

1. An Elektrolyzer splits water in hydrogen & oxygen gas.
This synth gas mix is being injected into the engine via a vacuum
2. In another gasification tank liquid alkanol and other volatile, organic compound become gaseous at the surface.
3. This synthetic gas is being injected via a high performance pump into the turbocharger.
The turbocharger compresses the air-gas-mix & is pressing it into the combustion chamber of the engine.
4. An additional air/ gas pump increases on demand the produced amount of synth gas.

COMPONENTS

- a) ELECTROLYZER
- b) WATER TANK
- c) GASIFICATION TANK
- d) HIGH PERFORMANCE PUMP
- e) AIR PUMP
- f) CONTROL UNIT

BENEFITS

REDUCED FUEL CONSUMPTION

At an average reduction of the diesel consumption of about 12% an average truck with 100.000km yearly travel distance **saves ca. 3.600 EURO**
- EVERY YEAR!

YOUR SAVINGS PER VEHICLE AT 100.000 KM/YEAR

Consumption in Liter		10	15	20	25	30	35	40
SAVINGS in %	8%	800€	1.200 €	1.600 €	2.000 €	2.400 €	2.800 €	3.200 €
	9%	900 €	1.350 €	1.800 €	2.250 €	2.700 €	3.150 €	3.600 €
	10%	1.000 €	1.500 €	2.000 €	2.500 €	3.000 €	3.500 €	4.000 €
	11%	1.100 €	1.650 €	2.200 €	2.750 €	3.300 €	3,850 €	4.400 €
	12%	1.200 €	1.800 €	2.400 €	3.000 €	3.600 €	4.200 €	4.800 €
	13%	1.300 €	1.950 €	2.600 €	3.250 €	3.900 €	4.550 €	5.200 €
	14%	1.400 €	2.100 €	2.800 €	3.500 €	4.200 €	4.900 €	5.600 €
	15%	1.500 €	2.250 €	3.000 €	3.750 €	4.500 €	5.250 €	6.000 €

REDUCED ENGINE WEAR & TEAR

The combustion process is cooler, the entire engine runs on average at a lower temperature range. This reduces verifiably the wear & tear on all heat bearing parts of the engine (cylinders, pistons, valves, crank shaft, etc.). For our customers this means a longer possible usage with lower possibility of failure of the engine.

REDUCED EMISSIONS

Alongside the reduction of fuel consumption, also the CO₂ emissions are being reduced. On top of that nitrogen oxide (NOX) is being reduced up to 50%, as well as particulate matter (PM) is significantly reduced. This creates for our customers an even better / greener image.

ADVANTAGES

UNIQUE DIFFERENTIATOR

There is no comparable product/ solution on the market with the same performance for mobile non-stationary use.

SECURITY

The FS PURIFIER+ is tested & certified by TÜV and received its operating license. The larger variants for industrial applications & the maritime sector have been assessed as safe & authorized to be used in even more complex and thorough test & accreditation processes. It works totally self-sufficient and controlled. If the FS PURIFIER+ falls out or is being serviced & maintained, the engine (auxiliary & prime engines) simply continued to run with its default operating settings / conditions.

SHORT AMORTIZATION PERIOD UNDER 2 YEARS

The investment into a FS PURIFIER+ usually amortizes through the fuel savings within the first 2 years of the 3 year warranty period, that can be extended up to 9 years total. (3+3+3)

PRICES & QTY BASED DISCOUNTS

FS PURIFIER+ is being offered directly or via partners for the following prices

1 Einheit:	7.999,- Euro
>10	5%
>50	10%
>100	15%
>250	20%
Garantieverlängerung	auf Anfrage



PURIFIER

GREEN
TECHNOLOGY

www.fuelsave.de