



**DELIVERING OVER 15% FUEL SAVING
AND 60% REDUCTION IN EMISSIONS**

**FOR THE SMALLEST CARS TO THE LARGEST
ENGINES AVAILABLE ON THE MARKET TODAY**

HYDROFLEX IS AN ONBOARD SYSTEM PROVIDING IMMEDIATE BENEFITS FOR DIESEL ENGINES



HYDROFLEX-16

For up to 16 litre engines such as commercial trucks, large marine vessels, buses, engine driven power generators and heavy machinery.

HYDROFLEX-4

For up to 4 litre engines such as refrigerated containers and trailers, delivery vans and cars.



HYDROFLEX CUSTOM

Custom built systems to suit the smallest cars to the largest engines available on the market today.



The technology – how it works

Diesel burns slowly and incompletely resulting in fuel wastage and carbon build-up within an engine. Over time the accumulated carbon reduces engine performance, increases emissions and impacts fuel economy.

Passing an electric current through water with added electrolyte causes a chemical reaction that separates the water into hydrogen and oxygen, or hydroxy gas.

Adding a small but precise amount of hydroxy gas to an engine's combustion process causes fuel to burn faster, cleaner, and more completely. The process is managed using mechanical and electronic control technology.

This enhanced combustion improves fuel economy, increases engine power and reduces emissions.

- ✓ Hydrogen enhanced combustion has been tested and proven effective for more than 50 years
- ✓ No chemicals used
- ✓ Hydrogen is not stored and does not harm the engine

Fuel savings

5% to 35%

Emission reduction

up to 60%

Increased power

4% to 8%

Less maintenance

longer engine and oil life

Hydroflex systems

Hydroflex systems are fully automated, only requiring refilling with water approximately every second refuelling. If the water tank runs dry the system simply stops delivering benefits. The dash display indicates when attention is required, like water refill.

A small amount of power is required by the Hydroflex system, which is provided by the engine's electrical system. Hydroflex turns off when the engine is off and has an independent on-off switch if isolation is necessary.

Housed in a strong outer casing, Hydroflex installs in various locations outside or inside the vehicle according to configuration and customer requirements. The lockable door provides complete access for easy maintenance and inspection. Installation by any qualified auto or diesel mechanic takes an average of three hours, requiring minimal time off-road.

Why choose Hydroflex?

Hydroflex systems are practical, safe and efficient – superior to other products on the market.

- No dismantling or modifications to the engine or engine settings
- Installation and maintenance by your nominated technician
- Suits fleets of any size
- Transferable to other vehicles
- Money back guarantee and comprehensive warranty program
- Manufactured in Australia using high grade components

Advantages

- ✓ Unique tank design that eliminates the chance of hydrogen explosion
- ✓ Electrolysis unit that does not contain stainless steel – the use of stainless steel in an electrochemical caustic environment can leach the carcinogenic substance, hexavalent chromium
- ✓ Significant reduction in seven types of emission: soot, ash, nitric oxide (NO), nitrogen dioxide (NO₂), carbon monoxide (CO), carbon dioxide (CO₂) and non-methane hydrocarbons (NMHC) including benzene (C₆H₆)
- ✓ Reduced abrasive carbon build-up on valves, pistons and other engine components extends engine life and diesel particulate filter cleaning intervals

About Hydroflex

HYDROFLEX specialises in the delivery of innovative hydrogen enhanced combustion solutions. The company designs and distributes systems that deliver cost effective solutions and emission reduction benefits for a global market of internal combustion engines.

With a world-class research and development program that exceeds industry standards, HYDROFLEX delivers ongoing innovation in the green energy space.

Recognised by industry leaders for its performance, quality and dependability, HYDROFLEX's hydrogen enhanced combustion systems are designed to reduce global dependence on fossil fuels.

HYDROFLEX provides truly bespoke, scalable systems that can be uniquely configured and optimised to any engine, transmission or fuel delivery system available on the market today.

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