



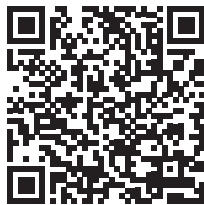
OXY HYDRO ALL IN 1

Engine decarbonization
system that cleans the intake
manifold and the DPF

www.tredlab.it



OXY HYDRO ALL IN 1



Engine decarbonization
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Combustion inside internal combustion engines is highly complex, and only in the last 20 years have its mechanisms been understood in detail. Among the various by-products formed, such as CO, HC, and CO₂, particular attention in recent years has focused on nitrogen oxides and compounds like soot, commonly referred to as carbon deposits. To maintain high performance and low emissions, it is essential to thoroughly remove accumulated soot. Soot is particulate matter composed of both organic and solid fractions. There are several methods to remove carbon residues, for example, by adding chemical additives to the fuel tank or through the disassembly and cleaning of components.

Soot production is higher in diesel engines and significantly increases with reduced oxygen levels during combustion. Due to exhaust gas recirculation, these carbon residues also accumulate in the intake ducts.



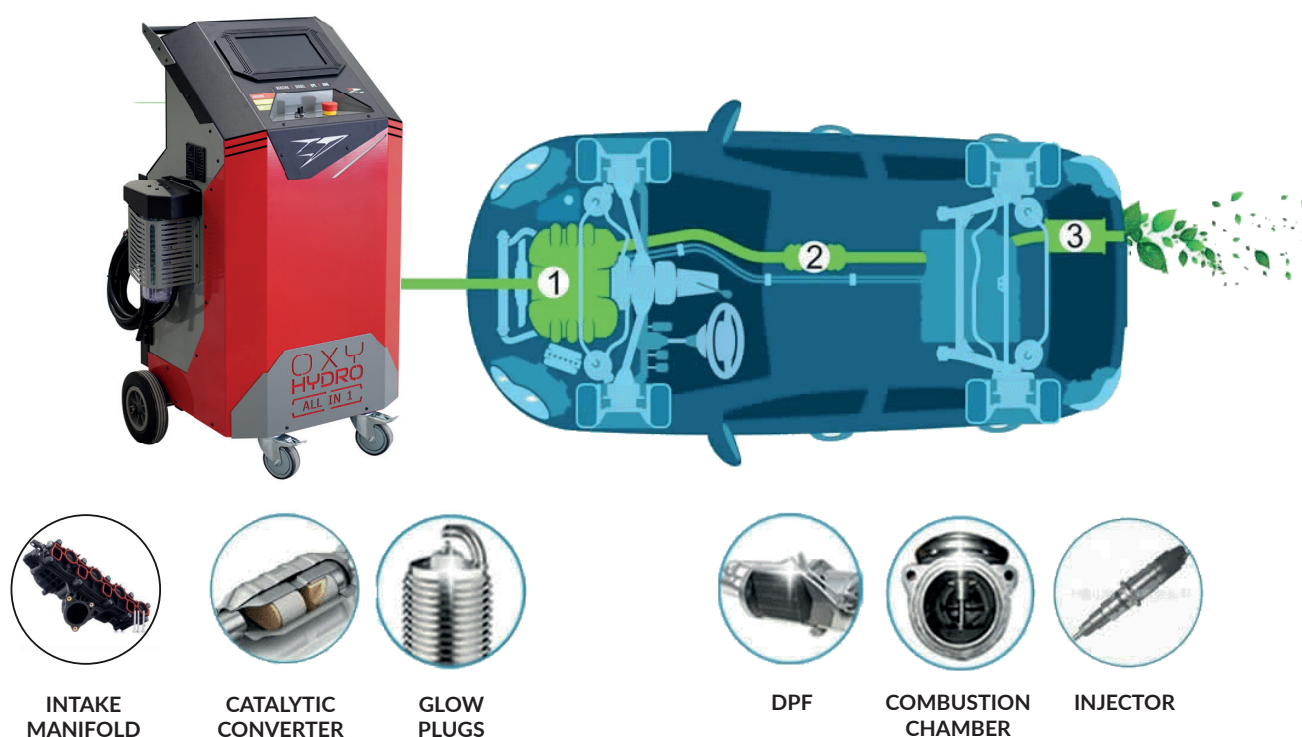
DECARBONIZATION AND CLEANING OF ENGINE HOT ZONES

By utilizing HHO technology, engine performance can be restored rapidly and efficiently.

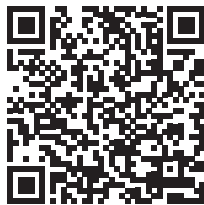
Electrolysis generates a reactive gas that is introduced into the intake manifold, where it mixes with the air drawn through the intake system.

The gas takes effect within the combustion chamber, accelerating the combustion process and inducing controlled pyrolysis. This effectively removes carbon deposits from critical engine components—such as piston crowns, cylinder walls, injector nozzles, valves, and glow plugs—without overheating the metallic components, as heat is primarily concentrated within the exhaust gases.

The generated heat, combined with water vapor from the gas combustion, is expelled via the exhaust stream, facilitating the decarbonization of the EGR valve, turbocharger turbine, oxygen (lambda) sensor, catalytic converter, and Diesel Particulate Filter (DPF).



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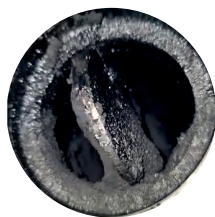


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DECARBONIZATION AND CLEANING OF INTAKE MANIFOLDS

The cleaning process for intake manifolds employs a newly developed detergent specifically engineered for the IMCS system, compatible with all types of internal combustion engines. This unit marks a significant advancement over the previous model by incorporating an innovative, high-precision injection system that delivers a direct and highly efficient treatment. Upon injection, the detergent chemically interacts with carbon deposits within the intake tract, effectively softening them to facilitate their progressive removal.

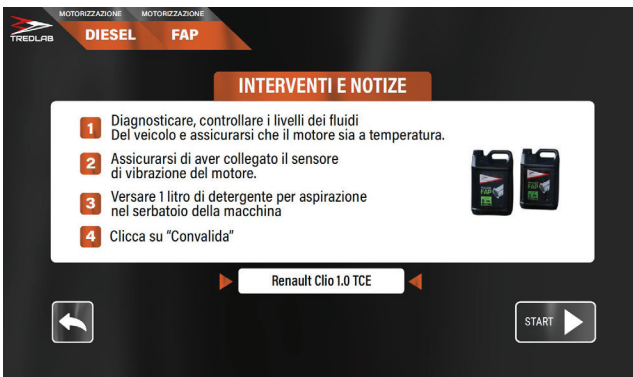
Carbon accumulation is notably higher in diesel engines—particularly under oxygen-deprived combustion conditions—and, due to Exhaust Gas Recirculation (EGR), these deposits build up extensively throughout the intake ducts.



BEFORE



AFTER



OUR STRENGTHS

Maximum effectiveness, zero complications

The system is now integrated with the DPF Cleaner treatment, providing a complete intervention across the entire engine—from the intake ducts to the Diesel Particulate Filter (DPF), including the combustion chamber. Everything is guided, simple, and fast: just follow the app and the OBD connection.

Injection-based IMCS

More power, deeper cleaning. The new IMCS system is even more effective thanks to the use of injection technology, allowing for deep, targeted cleaning of the intake ducts, increasing efficiency while reducing service time..

OxyBoost

The core of performance. The electrolysis process is now enhanced by the new OxyBoost additive, a chemical solution that guarantees constant, pure, and highly efficient HHO generation.

Production capacity

With high production capacity, the OxyHydro All-in-1 delivers sufficient power to perform thorough decarbonization treatments, optimizing engine performance while reducing fuel consumption and emissions.

Everything under control, always guided

From initial diagnosis to the final report, EasyLab guides you through every step, automatically generating precise diagnostics and a detailed report ready to be shared with the customer. More efficiency, less effort, maximum professionalism.

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di Pulizia



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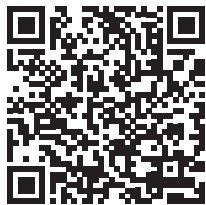


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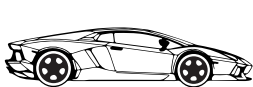
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OXYBOOST

Additive specifically formulated to enhance hydrogen-oxygen (HHO) production and improve treatment efficiency over time.



AVAILABLE IN TRUCK VERSION



Plus

HHO Tecnology	Advanced system for engine cleaning and optimization
Enhanced cleaning performance	Effectively removes carbon deposits
Improved combustion	Optimizes engine performance and reduces fuel consumption and emissions
Professional engine decarbonization	Service provided by specialized workshops
Suitable for all engines	Compatible with both small and large engine displacements
Production capacity	With an effective hydrogen production capacity of approximately 1,200 liters per hour, the OxyHydro Trucks system delivers higher power, making it suitable for decarbonization treatments on industrial vehicles, trucks, boats, and virtually any other type of vehicle

OXY HYDRO
ALL IN 1



Technical data

Voltage:	220-240V / 16A
Frequency:	50 Hz
Power:	3500 W
Display:	Touch Screen 10"
Connectivity:	Wi-fi Bluetooth
Materiale:	Steel, Aisi 316L
Weight:	125 Kg empty
Cell/reservoir:	60l
Production:	750 l/h
HHO process:	Automatic/Manual
Certification:	CE, Compliance ind. 4.0
IMCS evo process:	Manual/Automatic
IMCS evo reservoir:	2l
Dpf process:	Automatic
Asp/HHO/dpf proces:	Separate
Buzzer:	Alerts
App:	Pre- and post-diagnosis and alerts

Plus

HHO Tecnology	Advanced system for engine cleaning and optimization
Enhanced cleaning performance	Effectively removes carbon deposits
Improved combustion	Optimizes engine performance and reduces fuel consumption and emissions
Professional engine decarbonization	Service provided by specialized workshops
Integrated with IMCS Evo or Fap Cleaner treatment	For a complete service on the entire engine system – from the particulate filter to the intake ducts. Everything is guided, simple, and fast: just follow the app and connect via OBD

**Where innovation
meets precision
and success.**



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