

What is your Exhausting Problem with your School bus Fleet?

Particulate Matter?
Hydrocarbons?
Carbon Monoxide?

VERIFIED PRODUCT



AZ Purifier



AZ Purimuffler™



Purifilter™



PuriNOx™

Children who ride on a diesel school bus may be exposed to up to 4 times more toxic diesel exhaust than someone traveling in a car. A study found that diesel exhaust levels on school buses were 23-46 times higher than levels considered to be a significant cancer risk according to the U.S. EPA and federal guidelines. Exposure to untreated diesel exhaust can also be a factor in childhood asthma and lung disease.



The harmful components of diesel exhaust; particulate matter (PM), carbon monoxide (CO), and hydrocarbons (HC), can be easily reduced with current and readily available technologies for immediate emissions reductions and immediate health benefits.

Lubrizon Engine Control Systems (ECS) offers two retrofit solutions designed with school bus fleets in mind; a diesel oxidation catalyst (DOC), and a diesel particulate filter (DPF). The DOC known commercially as the AZ Purifier and the AZ Purimuffler™ are a proven choice for reductions of PM, CO, and HC. The DPF known commercially as Purifilter™, is offered for its extraordinary reductions of PM, HC, and CO. ECS retrofit technology solutions offer superior performance at maximum cost effectiveness per retrofit dollar.

The products offered by Lubrizon Engine Control Systems go through a strict testing and validation regime. ECS holds more product certifications and verifications than our competitors and we can prove it. Letters of evaluation from agencies, testing results, and papers are readily available to our customers. Please see our product certifications as listed on the back page.

Because particulate exposure increases exponentially with proximity to the source, reducing emissions with retrofit technologies in the vicinity of children provides critical public health benefits and minimizes children's' exposure to these harmful emissions.

Engine Control Systems is a wholly owned subsidiary of the Lubrizon Corporation. We have global manufacturing facilities in Canada, USA, and Sweden. At ECS we offer many diverse ways to improve productivity, equipment life, and worker health and safety through our performance systems. ECS is the difference between a one-size-fits-all solution and a comfortable custom-fit.

Ask about CombiClean™ – the diesel particulate filter cleaning station. Built with over 25 years of proven filter regeneration technology. Clean all of your filters the safe and effective way.

This is our Solution to your School Bus Fleet

AZ Purifier and AZ Purimuffler™ – Diesel Oxidation Catalyst

The AZ Purifier is an oxidation catalyst that is installed upstream of the vehicles original muffler to provide emissions reductions. The AZ Purimuffler™ incorporates an oxidation catalyst and muffler into a single integrated package. Exhaust enters the catalyst and the harmful exhaust is chemically and physically modified into harmless air. AZ Purimufflers™ can be designed to be a direct fit replacement for the manufacturers original muffler. This means less down time and less invasive installation. AZ Purimufflers™ are a quick and efficient way to effectively reduce harmful diesel emissions.

- ✓ Evaluated by the California Air Resources Board
- ✓ Verified under US EPA urban bus retrofit/rebuild program
- ✓ Certified by the US EPA Voluntary Retrofit program for two stroke and four stroke diesel engines
- ✓ Certified by the Sweden Environmental Zones program
- ✓ Approved under the UK Energy Saving Trust TransportEnergy CleanUp Programme

Purifilter™ – Diesel Particulate Filter

The Purifilter is a diesel particulate filter coated with a catalytic layer. Exhaust enters the filter where the particulate is "trapped". When appropriate temperatures are reached the particulate is "burned". Exhaust comes out clean and the filter continually "regenerates" itself. The Purifilter™ replaces the current muffler it provides superior noise attenuation that is comparable to high grade mufflers.

- ✓ Currently undergoing Evaluation by the US EPA and California Air Resources Board
- ✓ Verified for Urban Bus under the Energy Saving Trust Vehicle Certification Agency of the United Kingdom
- ✓ Certified under the Swedish Environmental Zones: Off-road program
- ✓ Verified for fire trucks under the Energy Saving Trust Vehicle Certification Agency of the United Kingdom

PuriNOx™ – Emulsified Fuel

PuriNOx™ is an emulsified water in diesel fuel mixture. It is dispensed directly into the school bus fuel tank with no engine modifications. The fuel uses existing storage, distribution, and fueling facilities, and it handles like diesel fuel.

- ✓ EPA verified retrofit technology

Typical Reductions of Lubrizon Engine Control Systems Emissions Solutions

