Today's Leading Technology for Tomorrow's Future
Our Mission

• We are committed to providing you with verified and cost-effective solutions for treating harmful exhaust emissions from diesel, propane, gasoline, and natural gas engines used in highway and off-road equipment applications.

• We will engineer our emission control products to your specific applications and design a robust package that satisfies your mandate and fits precisely within your packaging envelope. This approach reduces installation or assembly time and optimizes operating uptime.

• Others may sell you a product off the shelf or from their catalogue; ECS will be your partner, working with you to deliver custom and industry leading solutions to solve your environmental mandates.

• We stand behind our products, verifying performance through the use of third party testing facilities, with regulatory agencies and most importantly, with our customers.

Our History is Your Advantage

• Our roots were established over 25 years ago, providing custom fit specialized severe duty applications in mining, cargo handling and construction. ECS continues to be one of the pioneers, attaining a large number of verifications in numerous retrofit programs around the world.

• Whether you are a small company with a few applications or a large fleet operator, you will receive the same high level of service and expertise that you would expect from an industry pioneer.

• Our customers keep coming back to ECS, because we continue to develop and pioneer solutions that work. We will be glad to share our experience to meet your individual emission reduction goals.

Let us Resolve Your Environmental Mandate Requirements

ECS’s Easy 4 Step Process

1. Establish your emission reduction requirements
2. Determine ECS custom solution alternatives
3. Choose the best solution for you, and . . .
4. . . . leave the rest to ECS

Quality Products with Exceptional Benefits

• Manufactured in ISO 9001 facilities, Engine Control Systems products are designed to offer ease of installation, peak performance, long life, and a proven service history.

• Engine Control Systems products have been proven in the most severe conditions, including underground and open pit mining, tunneling, industrial and stationary power generation applications, urban transit, school bus and on and off-road fleets.

Our products help to ensure air quality, productivity, and of course your employee’s health and safety.

• Our approach is what sets us apart in the marketplace. We will conduct a comprehensive appraisal of your specific requirements, recommend the right solution and ensure that the right equipment and fit is specified for the application the first time, every time.

• To ensure your equipment’s uptime we use only premium grades of stainless steel and welding materials to prevent corrosion and prevent premature failure. Should you require field support we will be there to support your operation and keep you on the go.

To find out how our EPA /ARB Verified solutions will resolve your environmental reduction needs, call us at:

1-800-661-9963
verified diesel oxidation catalysts (doc’s)

AZ Purifier™ & Purimufflers™

• The best doc solution in the industry, period. AZ Purifiers and Purimufflers offer an industry leading, verified 20-40% PM (Particulate Matter) reduction* values depending upon on the application. Other manufacturers offer only verified PM reduction* values of 20 to 26%. Our competitors claim to offer similar high levels of PM reduction, but only ECS backs it up with actual EPA verification.

• AZ Purifiers and Purimufflers employ an advanced zeolite containing washcoat and precious metal catalyst that afford superior low temperature performance.

• They can be combined with the ECS Closed Crankcase Ventilation (CCV) system which increases verified PM reduction to 40% for all 1991 to 2004 Medium and Heavy Duty Highway engine applications compliant to a 5 or 4 g/hp-hr NOx standard. Please see the ECS CCV section for further details.

• Why would you buy less PM reduction from another manufacturer? ECS AZ Purifiers and Purimufflers allow you to reduce more PM from more vehicles with the same amount of money you would spend with our competitors. ECS provides you with an environmental solution you can really feel good about!

* current EPA verified technologies PM reduction values dependent upon the specific engine and application using USLD fuel. Values are subject to change.

verified diesel particulate filters (dpf’s)

Purifilter™

• our industry leadership doesn’t stop with our doc technology. The Purifilter was the first passively regenerating DPF to attain an industry leading 90% PM emissions reduction credit value*. Purifilters are more efficient as they are manufactured with Silicon Carbide substrates which offer superior filtration and durability compared to other DPF materials.

• The Purifilter is able to comply with stringent California Air Resources Board (CARB) limits on NOx emissions by employing a precious metal catalyst impregnated silicon carbide DPF to passively oxidize accumulated particulates.

• The bottom line is that your investment in Purifilter delivers the most effective, durable and quiet solution to your environmental mandate.

Combifilter™

• The Combifilter typically removes 90% of PM* while reducing NOx emissions. The system is comprised of an integrated DPF and silencer assembly, and an off-board regeneration control panel or station. Unlike passively regenerating DPFs, Combifilter equipped engines do not have to meet minimum duty cycle requirements to regenerate.

• Depending on the Combifilter you choose, simply plug your Combifilter equipped vehicle in when you’re on lunch (60-90 minutes) or when the day’s work is done (8 hours) or consider a Combifilter exchange system which allows you to swap out a dirty filter for a clean filter in two minutes - your equipment will always be ready for a day’s uninterrupted work.

• Combifilter offers flexibility while optimizing your equipment’s uptime. ECS can tailor a Combifilter system that best fits your application and your PM reduction requirements.

* current EPA verified technologies PM reduction values dependent upon the specific engine and application using USLD fuel. Values are subject to change.
FilterMinder™

The FilterMinder provides onboard information to the vehicle or equipment user, providing the operator notification of required maintenance of the emission control system. It also logs information for diagnostic purposes to hasten maintenance and reduce downtime.

Closed Crankcase Ventilation (CCV) System

- In combination with any of the above Engine Control Systems emission control solutions the ECS CCV system elevates the level of exhaust emission reduction by eliminating crankcase emissions. Unlike exhaust emissions, crankcase gases normally escape into the environment through the crankcase vent tube.

- The ECS CCV:
  - is a truly closed CCV system which effectively eliminates 100% of crankcase emissions at all times.
  - improves passenger compartment air quality, which is important in all types of buses (school, shuttle, urban, etc.), refuse and municipal fleets.
  - improves air quality for personnel working in the vicinity of an operating piece of equipment.
  - reduces fouling in the engine compartment and of charge air coolers, radiators, etc. increasing their efficiency.

CombiClean™

The CombiClean is an automatic cleaning station used to perform regularly scheduled maintenance on your DPF and ensure its long life and efficiency.

- The cleaning process is designed to safely and effectively clean the filter and provide for the safe disposal of the particulate waste following both municipal and environmental guidelines.

PurifilterPLUS™

- The Ultimate Solution combining the benefits of Combifilter’s active regeneration with Purifilter passive operation

- PurifilterPlus allows extended periods of passive operation with periodic active regeneration providing:
  - Optimized vehicle uptime with de-ashing extended to 1,500 hour intervals
  - A proactive fleet management tool that improves fuel economy by reducing operating back pressure
  - Reduced capital costs as regeneration equipment can be deployed across a wide number of vehicles

- PurifilterPlus is the perfect solution for high utilization fleets such as rental fleets that need a quick way to ensure that their DPFs are in good working order prior to going out to a wide variety of customers and equipment users.

This clever approach INCREASES YOUR UPTIME and decreases shop time.

FilterMinder™

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