

Frequently Asked Questions and Warranty

1. What is a Combustion Catalyst System?

The Combustion Catalyst System (CCS) is a scientifically developed catalyst system which injects platinum, rhenium and rhodium into the engine through the air intake of a naturally aspirated or turbo charged engine. The catalyst enables a more complete burn of the fuel in the combustion chamber during the power stroke. A more complete burn during the optimal portion of the power stroke enables the engine to convert more thermal energy to mechanical energy.

2. Is the CCS system a fuel additive?

No. The CCS injects the catalyst in aerosol form into the air stream through the air intake. It is not mixed with the fuel and is not a fuel additive. In the combustion chamber, the air, catalyst and fuel react to optimize combustion where and when it is most important.

3. Will the CCS products void my engine warranty?

Installing an after market product will not void a vehicle's warranty. If however, the after-market product were proven to be the cause of engine or component damage, this damage would not be covered under warranty and would be the responsibility of the after-market manufacturer. This applies to all non Original Equipment Manufacture (OEM) after-market products such as oil filters, starters, fuel filters and the CCS. For more information see the Code of Federal Regulations for the Magnuson-Moss Warranty Act (cite: 16CFR700.10 – Sec. 700.10 Sec. 102 (c))

4. Can I use the CCS for diesel engines?

YES. In fact, of all engines, diesel engines benefit the most from use of Emission Technology's CCS products. Benefits include substantial emissions reductions of NOx, CO, PM (particulate matter most of which is carbon soot) and HCs. Fuel savings vary depending on the type and use of the vehicle and are significant. Engine wear and maintenance costs will also be reduced primarily due to far less soot being present in the engine oil.

5. Can I remove my exhaust catalytic converter by using a CCS?

NO. We do not recommend anyone remove their catalytic converter. In fact, Emissions Technology supports the function of the catalytic converter and results are in fact better with the original exhaust equipment on the vehicle. For example, the sensing equipment (the oxygen sensor) that regulates the amount of fuel being injected into the combustion chamber works in conjunction with the catalytic converter. Removing the converter is detrimental to the benefits of CCS and more importantly the environment! The CCS will also help keep the catalytic converter cleaner and longer lasting, which can save you hundreds of dollars. If you have removed your converter, we recommend you replace it and install a CCS.

6. Will a Catalyst Combustion System help me pass emissions tests?

YES. The CCS will effectively help reduce toxic HC, CO, NOx and particulate (diesel) emissions. These benefits are realized with older engines lacking emission controls devices or with modern engines equipped with the latest controls in which case the CCS will work in conjunction with (not replace) the existing emissions control systems. This is of particular value in regions that impose more stringent emissions standards and testing. The CCS will not mask mechanical deficiencies that result in increased emissions.

7. How do I know what system to use for my equipment?

To determine which CCS to use, we need to know the engine's maximum fuel consumption rate. It is important to note that it is not based on your average fuel consumption, but the maximum rated consumption from the engine manufacture. For example: If you are operating a bulldozer that has a maximum rating of 45 litres per hour, you will need one DC-102 unit because this system will handle engines that consume up to 56 litres per hour. Contact your dealer for qualified support with matching your application to the appropriate product.

8. What is the Warranty?

Emissions Technology Inc. warrants the Delivery System including all component parts will be free from defects in material and workmanship for the term of 3 years, 57,600 km or 3600 operating hours, which ever is achieved first from the purchase date.

9. Why is this technology just now becoming available?

Catalyst chemical technology itself has been utilized in many different types of processes and applications in a multitude of industries for many years. You may already be familiar with some of these: catalytic cracking of crude oil in the refining industry; catalytic heaters used for recreational camping or long life platinum spark plugs. (By the way, the spark plugs inside the combustion chamber stay clean for so long because the platinum oxidizes any contaminating deposits.) The engineering challenge has long been related to how a catalyst can be delivered to a combustion chamber in an effective manner and the very precise form the catalyst itself must conform to. Many are aware there have been numerous failed attempts to resolve these challenges in the past. Emissions Technology literally spent years researching, developing and refining their patented process and products. The CCS delivers demonstrable results and is recognized by numerous provincial and state governments in North America including the California Air Resources Board, benchmark for tough standards, which have awarded Emissions Technology a critical CARB Executive Order.

10. Where can I buy a Combustion Catalyst System?



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