

Eminox - CRT[®] System

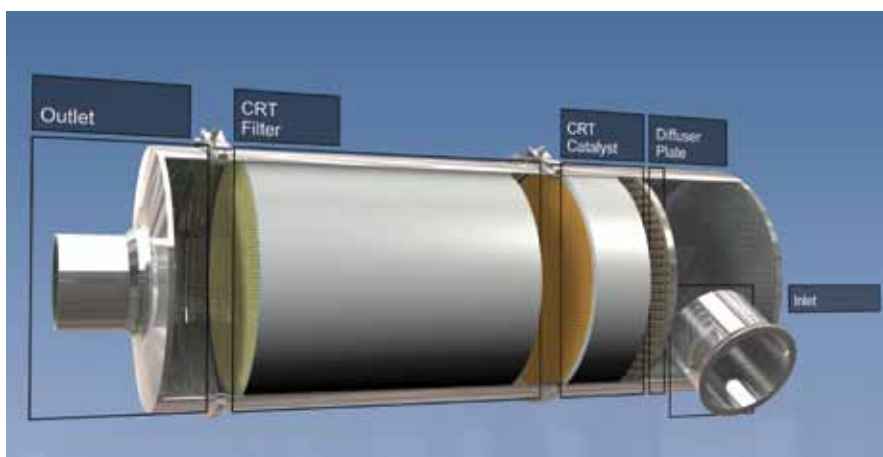
Emissions Reducing Technology



The Eminox CRT[®] system is Europe's leading diesel particulate filter, with around 60,000 systems installed on buses and trucks worldwide. Our CRT system reduces Particulate Matter (PM) emissions by more than 90%, allowing vehicles as old as Euro I to be upgraded to the PM standards of a Euro IV vehicle.

The system combines a specifically formulated oxidation catalyst and a ceramic wall-flow filter. The closed filter traps PM, including ultra fine particles, which are considered the most damaging to health. PM is removed from the filter by continuous regeneration during normal operation, without the use of additives. It also virtually eliminates Hydrocarbons (HC) and Carbon Monoxide (CO) as well as being Oxides of Nitrogen (NOx) neutral.

We have designed the CRT system for durability, using high grade stainless steel construction to protect the valuable catalyst and filter components. We also design the system to meet specific vehicle requirements, systems are available for a wide range of engine powers and vehicle applications.



The Eminox CRT has been rigorously tested and is approved for many Low Emission Zones and E-Zones across Europe, this is backed by proven performance in the real world since 1995.



Technology

The catalyst is a matrix of tiny channels coated in platinum, it oxidises CO and HC to harmless CO₂ and water vapour. It also changes the proportion of NO to NO₂, this is the key to filter regeneration.

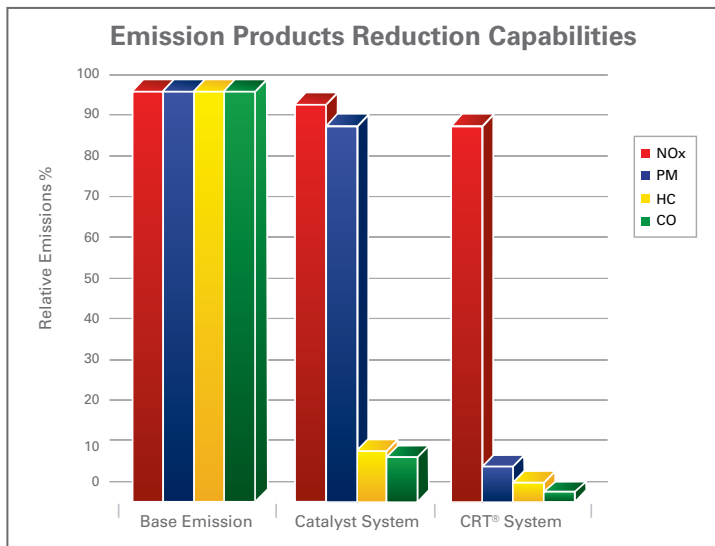
The wall-flow filter traps particulate matter which is then oxidised by the NO₂ removing it from the filter. This chemical reaction, which cleans the filter, takes place at normal exhaust temperatures. In this way the filter is continually cleaned, preventing build-up of back pressure.

Locating the catalyst in front of the filter gives optimum mixing and more effective filter regeneration.

Maintenance

The continuous regeneration of the filter maintains back pressure and allows the filter to operate effectively for long periods between cleaning. Periodic filter cleaning is necessary to remove incombustible ash and any soot build up. We offer efficient and environmentally responsible filter cleaning solutions using our unique Xpurge® cleaning process and Veritex® inspection technology.

Our CRT system is available with an ESI (Electronic Service Indicator) which monitors system performance and alerts the operator when the filter needs cleaning. The Eminox filter exchange scheme is a convenient way to service the system with minimal vehicle downtime.



Features and Benefits

- Highly efficient ceramic wall-flow filter traps Particulate Matter, even ultra fine particles
- Specially formulated catalyst removes Hydrocarbons and Carbon Monoxide
- Continuous regeneration of the filter without additives
- High grade stainless steel construction protects the valuable components
- Modular construction for ease of maintenance
- Electronic Service Indicator (ESI) provides servicing alerts

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