



SCR & THE ENVIRONMENT

EPA 2010





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The EPA 2010 emission regulations require more than an 80% reduction in Nitrogen Oxide (NOx) compared to the EPA 2007 emission levels. To meet these tough new regulations, Hino has selected the most environmentally friendly and reliable solution – **Selective Catalytic Reduction (SCR)**.

SCR is a proven technology that is in use in Japan and Europe for truck, bus and industrial applications. It is the best solution to meet the EPA 2010 emission regulations.

WHAT IS SCR?

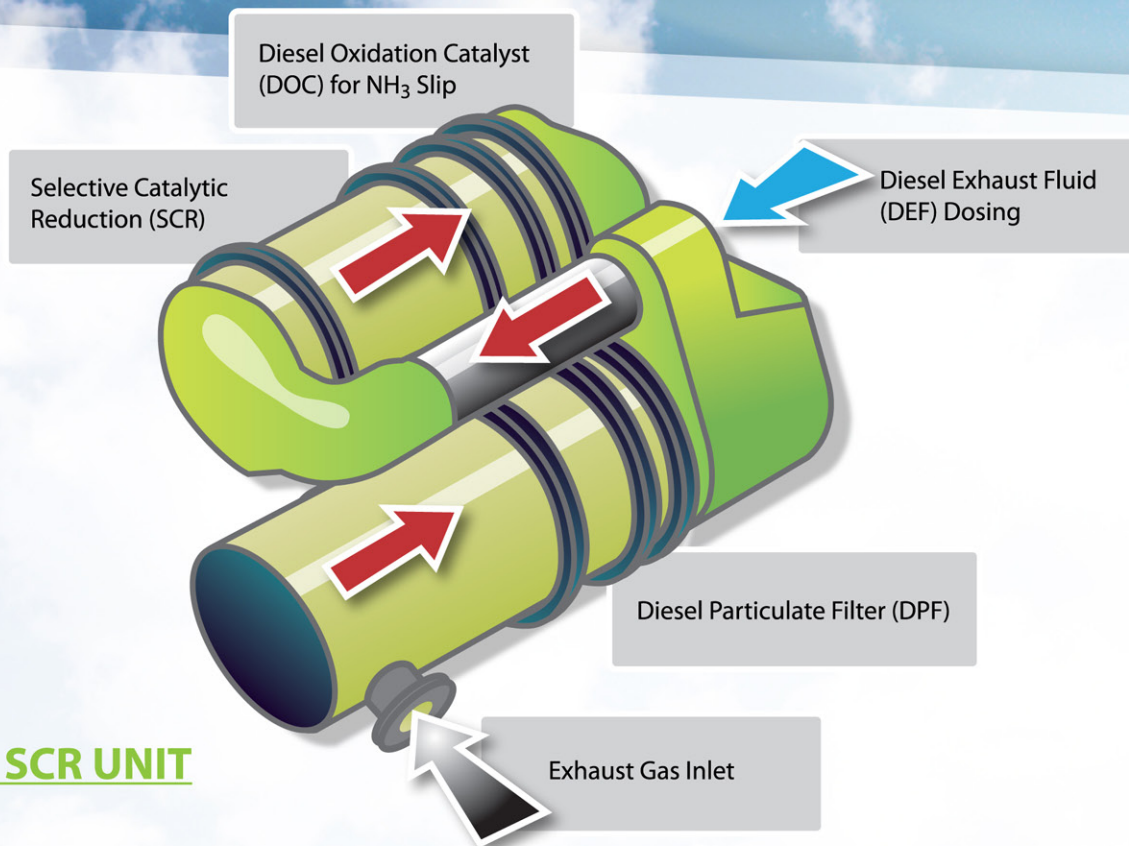
SCR is an exhaust after treatment system that virtually eliminates harmful oxides of nitrogen (NOx) from exhaust gases.

HINO SCR UNIT

Diesel Particulate Filter (DPF) + SCR



HINO SCR UNIT



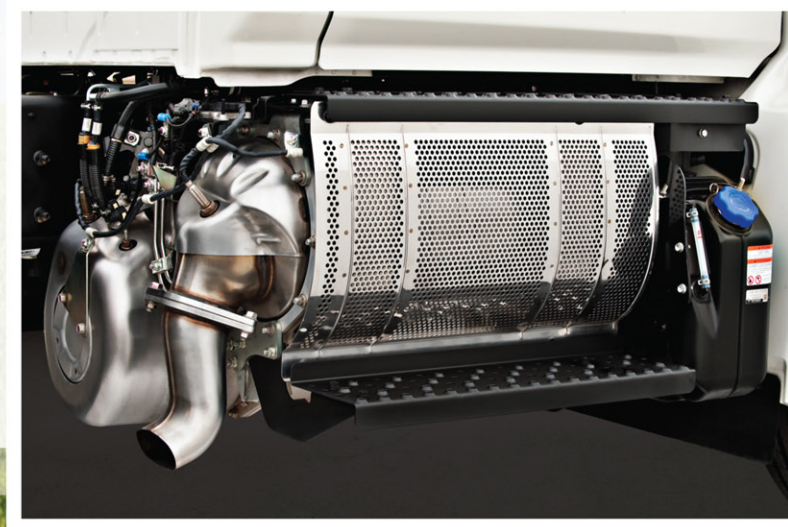
HOW DOES SCR WORK?

To meet the EPA 2010 regulations, the vehicle NO_x emission level must be no more than 0.2 grams hp/hr. Hino's SCR system requires the use of DEF. By mixing NO_x from the engine's exhaust with the ammonia (NH₃) contained in DEF, it is converted into harmless water vapour (H₂O), nitrogen (N₂) and small amounts of CO₂ through a chemical reaction within the catalyst. SCR is an effective, dependable and economical solution.

The design of the SCR unit ensures that your vehicle will provide ease of operation and require minimal maintenance. The SCR unit along with the DEF tank is located under the passenger steps.

WHAT IS DPF?

The **Diesel Particulate Filter (DPF)** is a device which captures diesel particulates preventing their discharge into the atmosphere. Collected particulates are incinerated in a process called "regeneration".



WHAT IS DEF?

Diesel Exhaust Fluid (DEF) is a solution made from 67.5% purified water and 32.5% automotive-grade urea that serves as a carrying agent for the ammonia needed to reduce nitrogen oxide (NOx) emissions from diesel engines.

Hino DEF is sold in quantities from 9.46L jugs to 1249L bulk containers. You will be able to order Hino DEF through Hino Dealers.



DRIVER DISPLAY

Operating an SCR-equipped HINO is straightforward and simple for drivers and fleet owners. New display features for the driver include Diesel Exhaust Fluid (DEF) level monitoring, warning lights and audible warnings. From a driver's standpoint, it does not get any easier; simply refill the DEF tank at normal refill intervals.



ENVIRONMENTAL RESPONSIBILITY

Hino's concern for the Global Environment has made it a leader in advanced engine and emissions technologies. Hino's Selective Catalytic Reduction (SCR) system is standard on all Hino EPA 2010 models. The system fully complies with EPA 2010 standards by converting nearly all harmful exhaust gas emissions into nitrogen and water vapour.

Hino Trucks... Now we can all breathe a little easier!





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