

The Global Leader in Emission Control

For the past 3 decades DCL has dedicated itself to the design and manufacture of superior emission control systems. With over 200 employees, 6 manufacturing facilities and 5 warehouses in 5 countries, we are committed to our customers.

We are proud to be ISO 9001:2008 certified for our registered research, design and manufacturing. Our core strengths are designing, engineering and manufacturing emission control devices for gas compression, power generation and pumping applications.

Our vertically integrated approach to product development provides highly customized solutions, shorter lead times, and greater quality control, translating to outstanding performance, longer product life and lower cost of ownership for our customers.



DCL's compact SCR is designed as a "Plug & Play" NOx solution that is easily integrated in any engine exhaust system

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Selective Catalytic Reduction (SCR)

Selective Catalytic Reduction (SCR) systems are used to reduce the level of nitrogen oxides (NOx) in the emissions of lean-burn or diesel engines used in off-road and stationary applications.

Traditionally, reducing NOx levels with SCR required contracting a supplier to develop a system and then having the supplier install each of the individual components over an extended period of time.

DCL's compact SCR is the first fully integrated system that comes pre-assembled, ready to simply be plugged in and start effectively reducing NOx levels. The system is also capable of reducing CO, HCOH/NMHC and NH3 slip providing a convenient solution for any pollutants.

The design of the compact SCR makes maintenance exceptionally quick and easy. DCL can also provide remote service assistance if necessary.

High Quality DCL Components



All of DCL's compact SCR systems feature highly durable QUICK-LID series catalyst housings and METALCOR metallic elements.

QUICK-LID Series Housings

DCL's patented QUICK-LID series heavy gauge, stainless steel housings provide a gasketless seal which greatly facilitates ease of service and cleaning of elements.

METALCOR Elements

METALCOR elements feature DCL's premium grade brazed metallic substrate structure, capable of high temperature operation providing exceptional performance.



Dedicated Electronic Control Unit (ECU)

DCL's compact SCR system has a dedicated ECU which operates based on input from a series of sensors installed on the SCR module. All sensors run independently from the engine load signal. The ECU also provides data-logging and data analysis with the option for remote access.

SCR Catalyst Technology

DCL's SCR catalysts have a vanadia-based, or zeolite-based coating which have a NOx reduction capability of up to 98%. The extremely durable elements can also operate continuously up to temperatures of 510 °C.

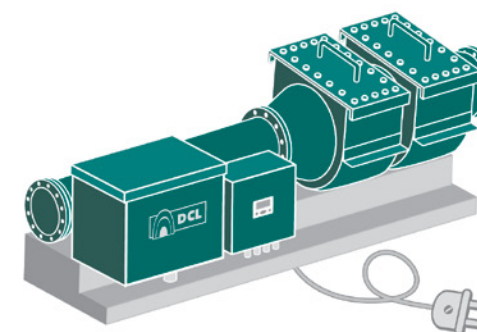
The size and configuration of the SCR catalyst elements is determined by the required NOx reduction, allowable back pressure of the engine, and ammonia slip limits.

INTEGRATED SYSTEM COMPONENTS:

DCL's SCR system combines all of the components required for effective NOx reduction into one integrated, compact package. The skid includes all of the following components:

- Stainless steel catalyst housing
- Oxidation catalyst (DOC)
- Urea injection kit and day tank
- All necessary sensors
- Mixer
- SCR catalyst(s)
- Ammonia slip catalyst (ASC)*

*included in some systems



NOx Reduction

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