

Clean Power. Complete Solutions.



NORTHERN LIGHTS

DECS - Revolutionizing Diesel Exhaust Treatment



Northern Lights' industry-best marine systems provide you with the ultimate in on-board solutions. Case in point - DECS, the diesel exhaust cleaning system that virtually eliminates soot from diesel marine generator exhaust.

DECS removes polluting particulates as they are emitted. Air and water quality are improved, offering a clean, enjoyable environment for everyone on-board.

Utilizing a passive regeneration process pioneered by DCL International, DECS uses the heat emitted by the engine's own exhaust to burn away soot particles, and convert the discharge to harmless CO₂. DECS' unique filtration process reduces carbon monoxide by up to 98% and diesel hydrocarbons by up to 95%.

Engineered to be application specific, DECS fits into virtually any engine room configuration. DECS meets or exceeds the sound attenuation standards of most marine engine mufflers, ensuring quiet, clean performance anywhere you travel. Its polished stainless steel exterior maintains low-surface temperature and complements any engine room.

The new generation of yachts demand a power generation solution that is clean and effective. Northern Lights provides the power you need with unmatched environmental stewardship.



Northern Lights, Inc.

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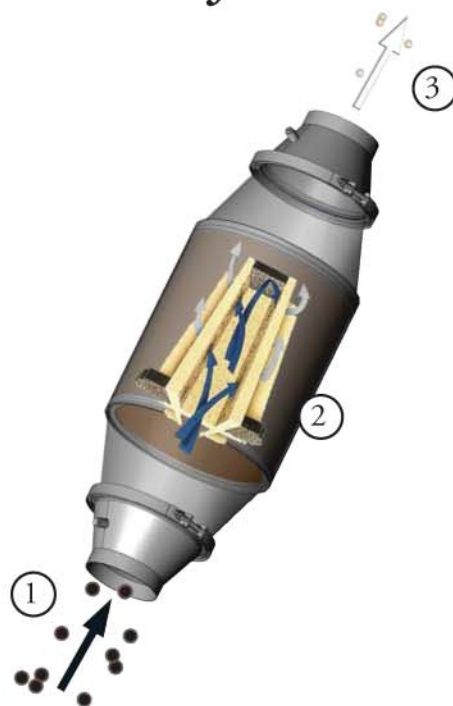
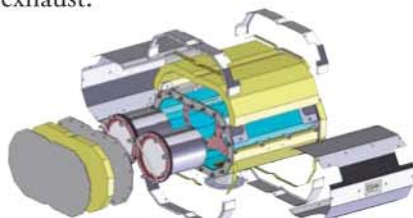
DECS - How The Industry's Best Exhaust Treatment System Works

DECS, or Diesel Exhaust Cleaning System, is based on DCL International's revolutionary MARINE-X™ system.



1. Exhaust gas is routed through a catalytic coated ceramic filter.
2. Soot is trapped as it passes from the generator set's exhaust system.
3. At a conservatively rated exhaust gas temperature of 300°C, soot burns off and is converted into harmless CO₂

• DECS passive regeneration process requires no additional equipment or regeneration time. Particulate matter is burned off using the heat emitted by the engine's own exhaust.



FEATURES

BENEFITS

CARB Level 3 verification	*Meets California Airborne Toxic Control Measure for stationary CI Engines (>85% conversion efficiency; CARB NO ₂ compliant.)
Passive catalytic regeneration of diesel particulates	* Eliminates unscheduled downtime for DPF regeneration. * No external power source required. * No burners or electric heaters required. * Lower cost of ownership than on competitor systems.
Excellent sound attenuation	*Meets or exceeds the sound attenuation standards of marine engine mufflers.
Engineered to meet your requirements	* Application specific designs ensure the proper fit for your engine room. * Pre-engineered kits available for quick and easy installation.
Polished 304-stainless steel exterior with insulated shell. Modular housing with removable filter elements	* Designed for the demanding marine environment, with a polished steel aesthetic to complement the engine room. * Allows easy service and ash removal. * Low surface temperature
State-of-the-art monitoring system and display panel	* Provides a clear, real-time window into DECS operating status. * Can be easily networked with generator alarm panel for single-source monitoring.

Dealer:



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