

The Discom Maritime Effect

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As a designer, builder or shipowner you are perfectly familiar with the significance of reliability and safety at sea. These are the characteristics that typify Discom. In over three decades we have provided hundreds of ships with dampers and total exhaust gas systems. In today's shipping industry the function of the exhaust gas system has changed slowly but surely. Now an exhaust gas system must effectively tackle the excess noise, vibrations and hazardous substances. In addition, modern exhaust gas systems help improve efficiency onboard. Heat recovered from flue gasses is no longer fiction, but in fact reality. Discom has been fulfilling these needs with a total concept, meeting all the requirements one might want to set to an exhaust gas system.



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Solutions for noise, emission and heat



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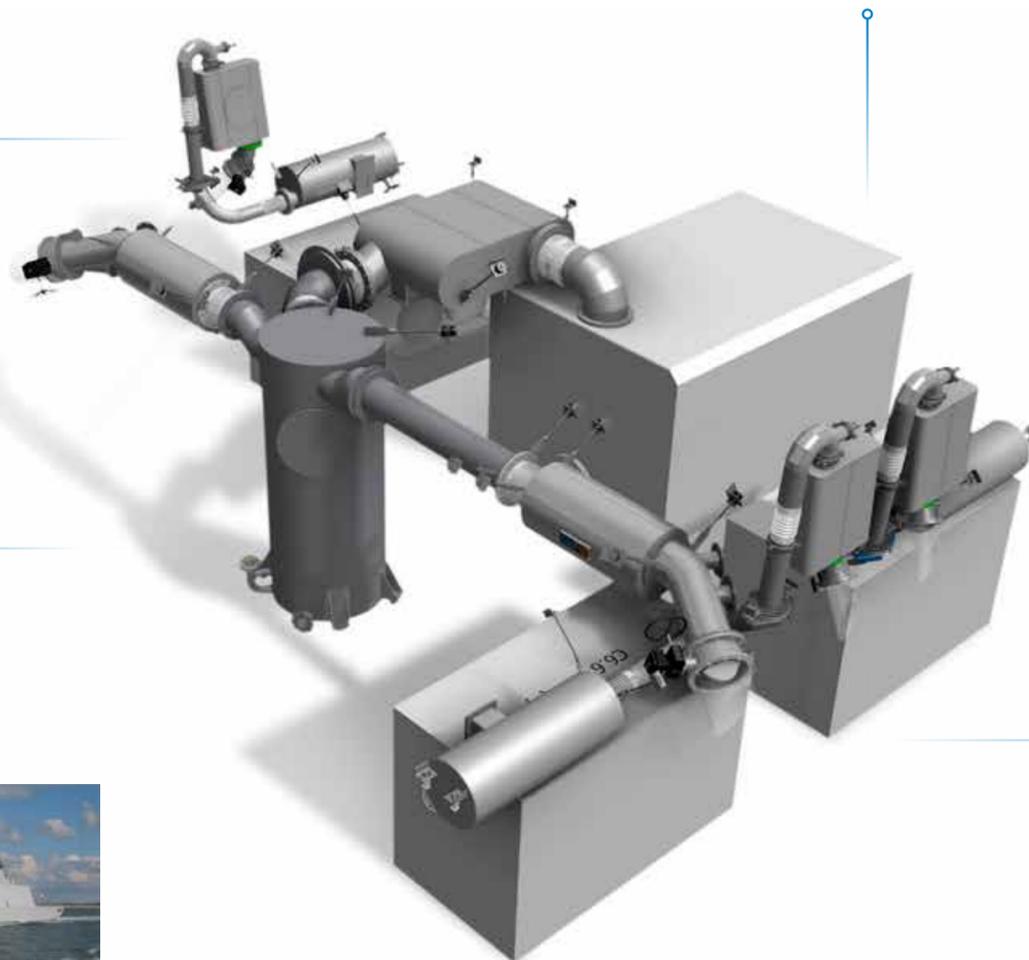


Solutions for noise, emission and heat

In recent decades ships have evolved impressively. Clients are setting ever stricter demands to efficiency, reliability and safety. Trade ships, workboats, cruise ships, ferries and marine vessels are examples of the most advanced techniques and technologies. The same efficiency, reliability and safety are required for the exhaust gas systems. Discom has been serving the maritime industry for over 35 years, providing total solutions with all the guarantees you may think of.



Vibration-free suspension A properly designed vibration-free suspension for an exhaust system means a serious contribution to having a comfortable ship. A good vibration-free suspension not only ensures a more pleasant state of mind, but also a longer life of the system. Discom's engineers will always provide a suitable solution.



Water-injected exhaust systems The main advantages of (sea)water injected systems are the following: cooled exhaust gasses which means thermal insulation is not required, more compact building options, less flue gas nuisance and, for marine vessels in particular, reduced visibility on infrared devices. The design of (sea)water injected exhaust systems requires extensive knowledge of and experience with this technology and the materials involved. Discom, given its long experience, guarantees reliable solutions.



Reusing heat The hot exhaust gasses produced by ship engines contain much energy some of which can be reused. Discom provides the possibility to indeed reuse this energy. To this purpose we provide the exhaust system with a heat exchanger. For instance, this energy can be used to improve the output of your entire system or for processing purposes.



'Dry' exhaust gas systems Despite the space problems in the engine rooms, Discom is perfectly capable of designing a 'dry' exhaust system that will meet each and every requirement. We design and manufacture 'dry' silencers in different shapes. In doing so we guarantee optimal use of volume and good acoustic results while respecting the maximum permissible back pressure in the exhaust system. In most cases we provide an integrated and certified spark arrestor.

Exhaust gas follow-up treatment Due to the maritime sector's sustainable image, increasingly more attention is being paid to exhaust emissions; removing diesel smell and soot and reducing NOx. Applying oxidation catalysts, soot filters and SCR systems allows Discom to ensure considerable environmental advantages in new and existing engines. Usually a custom-made solution is required bearing sound, back pressure and vibrations in mind.



Design determines your output

The ultimate effect of a system is usually determined at the initial stage. Making sure Discom is involved already during the designing process, means you can optimise the output of your exhaust gas system: a system with the ideal price/performance balance. Engaging Discom means you can count on experienced and dedicated engineers who will take their time to perfectly understand your wishes and requirements. This most accurate approach means crystal-clear advice is guaranteed based on acoustic, typographical, FEM and CFD calculations. Also, our engineers' long experience will help them reach perfect solutions.

Discom will never give up

Sometimes the requirements our clients set to exhaust gas systems may seem incompatible. But not to us. To find solutions we invest best efforts to reach whatever is feasible at the technical level, never overlooking reliability and safety. You can count on Discom to provide honest advice in case what you need might interfere with having a safe and reliable system in the short or long term.

Certainty in black and white

Discom has all the certificates required and meets all the standards that prevail in the maritime world. In addition to the ISO 9001:2008 certificate we also hold the ISO 3834-2: 2005 and EN 15085-2 certificates. And for the maritime industry we offer even more guarantees, with certificates issued by Lloyd's, DNV, BV, RMRS and RM. In addition, we maintain close contact with classification agencies to remain abreast of changing rules and directives.

How much more certainty at sea do you wish for?

Today the maritime industry requires top-notch solutions: Discom's solutions. Your exhaust system too can be much more effective. It is why we recommend the Discom Effect.