

# LEMAG Slashpol® R

## FOR OPTIMUM COMBUSTION AT REDUCED LOAD

- Clean engine operation at reduced load
- Improved combustion quality
- Easy retrofit installation
- Reduced exhaust emissions
- Reduced operational costs
- Patent Pending



increases the volume of injected fuel with a water-in-fuel emulsion to optimize the spray pattern

At today's fuel prices more and more ships are operating at reduced speed to reduce their fuel consumption. Diesel engines however are not designed to run at part load for a long period. The reduced volume of injected fuel can result in lower injection pressures, bad atomisation of the fuel and the larger fuel drops combust incomplete, which results in soot formation, reduced turbo charger efficiency, wear of piston crowns and increased particulate emissions.

The **LEMAG Slashpol® R** is the solution to this problem: Instead of modifying the engine e.g. installing special fuel injectors that limit the engine power at the upper end of the range, the missing volume of fuel is filled with water which is completely emulsified into the fuel. This water-in-fuel emulsion allows the engine to be operated at part load, even on longer periods without harmful effects to the engine.

As a positive side effect the engine will run even more cleanly than before, with reduced emissions of NOx and smoke without negatively affecting the fuel consumption.

The system also ensures that full power is available if required. In this case the system will automatically reduce the water content to gain the required fuel amount.

The fully automatic integrated control system also monitors the temperatures and viscosity of the emulsion to ensure that no damages to the engine are caused by a sudden change of the water-fuel ratio.

One of the main criteria during the development of the **LEMAG Slashpol® R** was to be able to retrofit the system into existing ships. The result is a plug-in system that can easily be installed onboard without interfering the normal ship's schedule and can be commissioned by the crew onboard without the attendance of external technicians.

**LEMAG Slashpol® R** can be tailor-made to meet your requirements. Please contact us for more information.

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