

BLADE AIR EMISSIONS SYSTEM



KONGSBERG

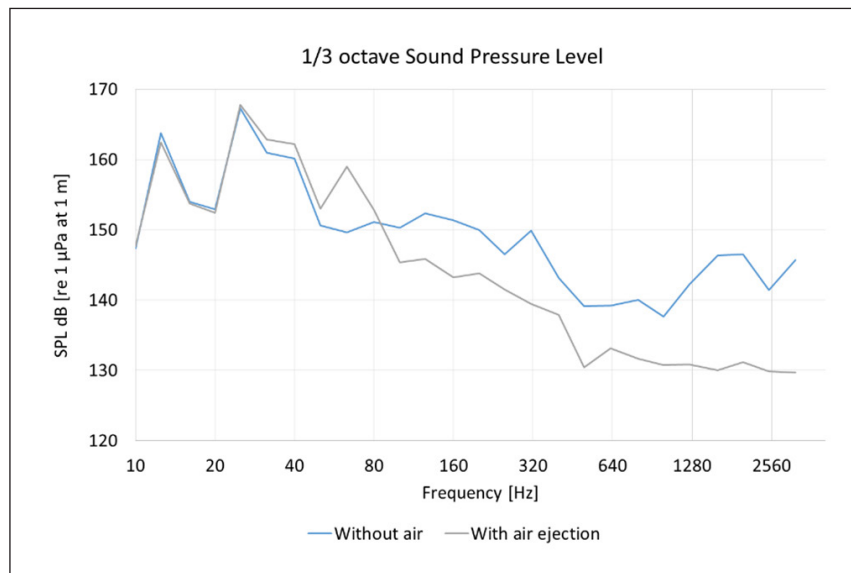
- Noise reduction to protect the ocean environment
- Maintaining propulsion efficiency

KEY NOTES

- Introducing a new technology to reduce Underwater Radiated Noise from propellers
- Technology used for years by Navies to limit and change vessel signature is being introduced also for commercial shipping
- Extensive research at the KONGSBERG Hydrodynamic Research Centre in Sweden to evaluate the effect on noise, erosion and efficiency
- The technology significantly reduces cavitation-induced broadband noise (approx. 10-15 dB) without adversely affecting ship efficiency
- Channels into the leading edge of the propeller blades enables ejection of air close to where the cavitation and noise are created
- Possibility of protecting propeller blades from harmful cavitation damages
- The goods and technology for a propulsion system with blade air ejection are export controlled as Military Listed

KONGSBERG PROPULSION

Propeller blade air emissions for a silent sea



Full scale Sound Pressure Level from measurements of radiated noise in the cavitation tunnel at Kongsberg Hydrodynamic Research Centre for a propeller operating in a non-uniform inflow. Measurements confirms the experience from installations on Naval vessels that underwater broadband noise levels are significantly reduced.

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