

# EcoNozzle

The EcoNozzle is a redesigned fuel nozzle for S50 MC-C, Mk.7 and 8 engines. It improves the fuel spray pattern, which optimizes the combustion across all engine loads.

Combustion optimization is a key factor in reducing CO<sub>2</sub> emissions. Improving the combustion reduces fuel consumption leading to lower CO<sub>2</sub> emissions.

## **Decarbonization effect with a short payback period**

The EcoNozzle upgrades the fuel spray pattern to improve the flame formation and the fuel propagation. These enhancements reduce fuel consumption and CO<sub>2</sub> emission, while keeping NO<sub>x</sub> emissions within the regulatory limits.

The EcoNozzle leads to fuel savings in the range of 2-7 g/kWh depending on the engine load, which can reduce the payback period to just 3-5 months.

## **Statement of reduced Specific Fuel Oil Consumption (SFOC) for classification**

The scope of supply will include an SFOC statement containing a table of SFOC reduction by engine load. This will be a part of the classification documentation to improve the requirements for Carbon Intensity Indicator (CII) rating, Fuel EU, EU Emissions Trading System (ETS) and other upcoming regulations.

Your vessel crew can install the EcoNozzle during a regular overhaul or in port when the engine is not running.

## **Technical File amendment included**

Everllence licensees have run several test bed trials that document performance and emissions for class approval.

The tests established that the EcoNozzle meets the requirements in MARPOL Annex VI and the NO<sub>x</sub> Technical Code 2008.

The EcoNozzle is a complete retrofit solution. In addition to new EcoNozzles and spindle guides, you will receive a new cleaning tool and an amendment to the Technical File.

Please contact your Everllence PrimeServ office for more details.



Figure 1: EcoNozzle

# EcoNozzle

Redesigned fuel nozzle with instant fuel savings

## Key benefits

- Instant fuel savings in the entire load range – up to 7g/kWh at 100% load
- Easy installation – can be done by vessel crew
- High return on investment
- Full operational flexibility
- Lower CO<sub>2</sub> emission and NO<sub>x</sub> emission within the regulatory limits
- Easy retrofit of original wear part
- Significant fuel savings
- A wise choice as an alternative to the previous fuel nozzle

## Scope of supply

- Complete, new spindle guide with EcoNozzle
- New set of cleaning tools for the EcoNozzle
- Amendment to Technical File
- SFOC statement

## Applicable to

Everllence B&W S50 MC-C  
Mk 7/8 engines

## More information

Contact your local Everllence PrimeServ office for more information about the product and how the upgrade can improve your specific engine.

## Everllence PrimeServ

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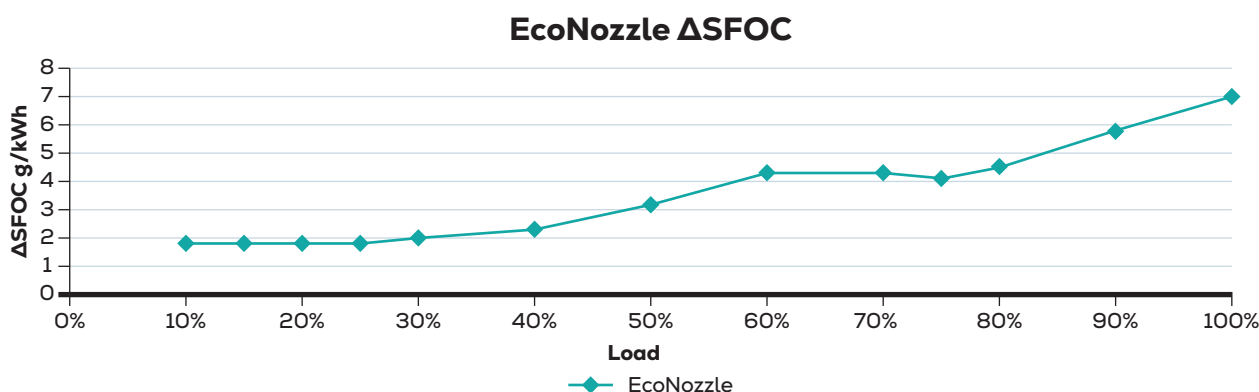


Figure 2: Engine Load