PMI Auto-tuning

With Performance Measurement Indicator (PMI) Auto-tuning, Everllence PrimeServ reduces the specific fuel oil consumption (SFOC) and the CO_2 emissions. PMI Auto-tuning uses cylinder pressure sensors to tune the engine.

The main purpose of PMI Auto-tuning is to balance the engine and thereby reduce the SFOC, and consequently CO_2 emissions. But it also helps the crew to constantly monitor the real-time condition of each cylinder unit and find any abnormalities in time to minimize wear on engine components.

PMI Auto-tuning is an automated monitoring and tuning system for electronically controlled two-stroke Everllence engines (ME engines). Through a PMI sensor on each cylinder, the system measures the cylinder pressure (Pmax, Pcomp, and Pi) and tunes the engine accordingly. The tuning includes adjustment of fuel injection timing and exhaust valve opening. Various performance data are displayed on a screen, informing the crew of opportunities for additional engine tuning.

Better engine performance leading to reduction of SFOC and CO_2

PMI Auto-tuning enables automatic adjustment of the combustion pressure, resulting in an optimal combustion process to improve engine performance.

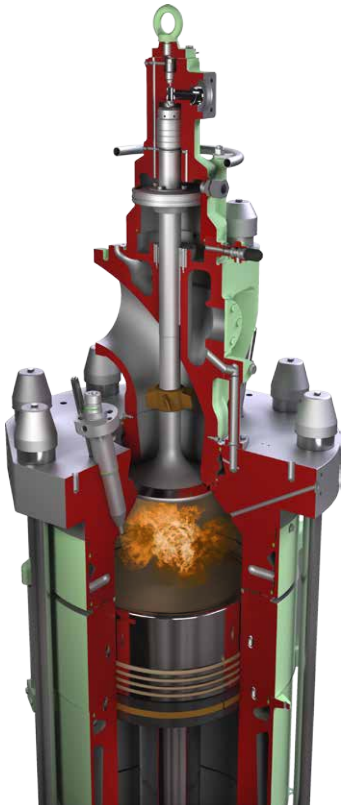
This engine tuning leads to substantial fuel savings with service experience showing that you can typically save around 2–4 g/kWh. This reduction in SFOC paves the way for a CO_2 reduction.

Lower CO_2 emissions help improve the CII rating and EU ETS carbon costs

The CO_2 reduction will help improve your Carbon Intensity Indicator (CII) rating, and it will help cut your carbon costs within the EU Emissions Trading System (ETS).

The scope of supply depends on the existing offline PMI installation.

Please contact your Everllence PrimeServ office for more details.



Everllence PrimeServ

PMI Auto-tuning

Improve engine performance and save fuel oil

Key benefits

- Fuel savings
- Improves performance and engine efficiency
- Lowers engine maintenance costs and increases the reliability
- Simplified operability eases workload and eliminates time-consuming manual adjustment
- Diminished risk of human errors thanks to automatic parameter adjustment
- Lowers risk of mechanical and thermal engine overload
- Reduces SFOC leading to CO_2 reduction and lower EU ETS carbon costs
- Reduces carbon particle emission
- Can be installed during normal service

Scope of supply

Cylinder sensors (Kistler), incl. new indicator cock. One for each cylinder.

- Cables, cylinder sensors to DAU

Data Acquisition Unit 12

- LAN connector module
- Scavenge air pressure transmitter
- LAN Hub (not applicable if purchased with EngineVault or other connectivity package)
- PMI Calibration Box
- Pressure Transducer for calibration
- Handle for pressure transducer
- Cables for calibration box
- Cable package

Applicable to

All Everllence B&W ME/ME-C/ ME-B 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

Teglholmsgade 41
2450 Copenhagen SV, Denmark
P + 45 3385 1100
RetrofitDK@everllence.com
www.everllence.com/primeserv