MGO COOLING SOLUTIONS

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Introduction

- Regulations for Low Sulphur marine fuel oil.

- European Union.
  - EU Sulphur Directive 2005/33/EC.

- IMO MARPOL Annex VI -2008
  - Fuel Regulation 14, SOx, PM,

- California Air Resources Board (CARB)
  - 17 CCR, section 93118.2, title 17
Ship’s fuel oil injection system is not designed to use low sulphur fuel oil (low viscosity).

- Fuel viscosity, combustion quality and lubricity are some of the operational challenges.
- Fuel oil injection components are going to be affected and deteriorated.
- Therefore fuel oil systems onboard have to be modified.
Solve the challenge.

- MGO needs cooling to 18°C to reach 3cSt.

Source: MAN Diesel, Service Letter SL09-515/CXR
Farad’s solutions for MGO Cooling.

• MGO COOLING UNIT.
• MGO COOLING MODULE.
• MGO COOLING SYSTEM.
• MGO COOLER.
MGO Cooling Unit.

- MGO inlet temp: up to 55 Deg. C.
- MGO outlet temp.: down to 17 Deg. C.
- Design Pressure (MGO): 1.0 MPa.
- Cooling system: F.W or S.W.
- Suitable when M/E and G/E have common F.O service system.
- Tailor-made solution that suits to vessel’s specifications.
- Approved by all leading Classification Societies.
MGO Cooling Module.

- Suitable when M/E and G/E have separate F.O service systems.
- MGO inlet temp: up to 55 Deg. C.
- MGO outlet temp.: down to 17 Deg. C.
- Design Pressure (MGO): 1.0 MPa.
- Cooling system: F.W or S.W.
- Tailor-made solution that suits to vessel’s specifications.
- Approved by all leading Classification Societies.
MGO Cooling System.

- MGO inlet temp: up to 55 Deg. C.
- MGO outlet temp: down to 38 Deg. C. (assuming SW temp. at 32 Deg. C.)
- Design Pressure (MGO): 1.0 MPa.
- Cooling system: S.W.
- Compact solution, which eliminates the risk of contamination of the SW line with MGO.
- Tailor-made solution that suits to vessel’s specifications.
- Approved by all leading Classification Societies.
MGO Cooler, (stand-alone).

- MGO inlet temp: up to 55 Deg. C.
- MGO outlet temp.: down to 36 Deg. C. (assuming SW temp. at 32 Deg. C.)
- MGO outlet temp.: down to 39 Deg. C. (assuming FW temp. at 36 Deg. C)
- Design Pressure (MGO): 1.0 MPa.
- Cooling system: S.W. or F.W.
- Compact solution.
- Tailor-made solution that suits to vessel’s specifications.
- Approved by all leading Classification Societies.
Thank you for your attention.

If you have any questions or comments, please feel free to contact us at:

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