

AQUAMETRO OIL & MARINE



WFE – Water In Fuel Emulsion Unit For the sake of the environment: reduces NO_x / PM emissions.



The Water In Fuel Emulsion is a proven wet NO_x / PM reduction method. It creates stable Water-Fuel-Emulsion with HFO and MGO. This will lead to a reduction of NO_x / PM formation and will improve the atomization of the fuel. In result: a more complete combustion.

Features

- Stable Water-Fuel-Emulsion with HFO / MDO
- Improved combustion process
- Automatically controlled emulsification
- Compact and modular design
- Small footprint
- Adjustable water amount
- Combine with scrubber installation (scrubber SO_x reduction / WFE – Particle matter (PM) reduction)

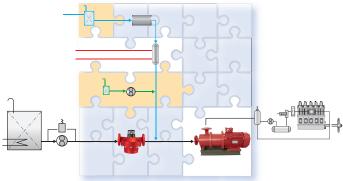
Benefits

- Reduce NO_x / PM emissions
- Lower opacity of plume
- Reduced deposits in combustion chamber and exhaust gas system
- Economical solution for emissions reduction

Compact and modular design

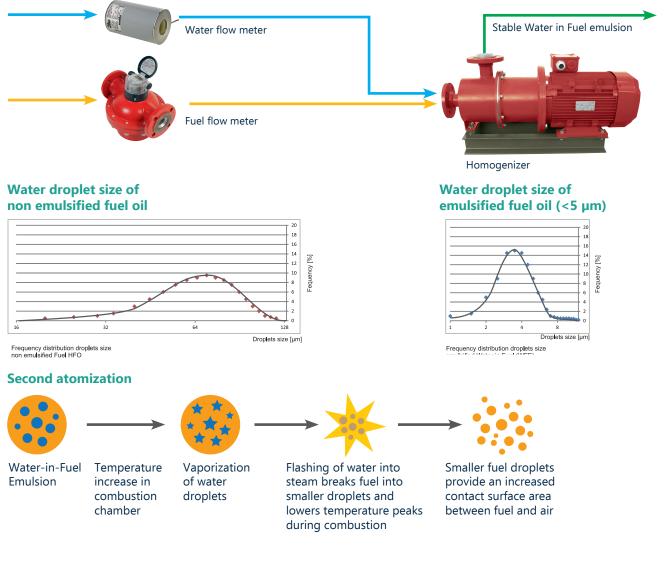
Customized design for newbuildings and retrofits. Description:

- WSM: Water Supply Module
 with or without water tank
- WPM: Water Preheating Module
 steam or electrical preheater
- EM: Emulsifier Dosing Module
 only for distillate fuel oils required
- WFH: Water-Fuel-Homogenizer
 homogenizing water in fuel
- WFECC: WFE Control Cabinet
 - PLC/touch screen/monitoring system/data recording & transfer



Operating principle

Water in Fuel Emulsion is a cost-effective and proven wet NO_x reduction method. The introduction of fuel with water in engine cylinders lowers the peak combustion temperature. Thus, **reduces the formation of** NO_x / PM emissions and improves atomization of the fuel, resulting in more complete combustion. Improved fuel atomization will result in less unburned fuel, therefore **less particulate matter**, while **improving overall fuel consumption**.



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