TERRAGON
Environmental Technologies Inc.

WETT-O™

An Advanced, Ecofriendly Oily-Water Separator

Effective Removal of Pollutants from Oily Bilgewater.
WETT-O uses a novel, compact and efficient electrochemical coagulation reactor to separate nearly all oil and grease from bilgewater.

Wastewater Electrochemical Treatment Technology

CERTIFICATION OF COMPLIANCE WITH 46 CFR 162.050 – Oil Pollution Prevention Equipment
Compliance with the requirements of MARPOL Annex I

• Free and Emulsified Oils • Grease • Heavy Metals • Suspended Solids
• Organics • Bacteria • Detergents • Phosphorus

Type Approved by USCG/Transport Canada/IMO MEPC.107(49)

Treats to 5 ppm or 15 ppm for discharge at sea

Shipboard Tested

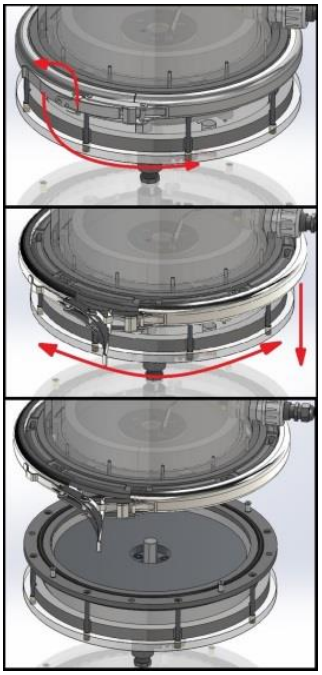
Chemical-Free and Filter-Free

Fully Automated Operation

Removal of Toxic Heavy Metals

Removal of Deleterious Phosphorus

Low Oily Sludge Generation Rate



Simple electrode change-out
In less than 15 minutes

Important Features of WETT-O™

- WETT-O consists of a compact free oil separator (FOS) and a proprietary electrochemical purification technology (EC)
- Treatment performance unaffected by ship motions
- Self-cleaning electrochemical process
- Push button start-up, continuous treatment
- Automated operation with remote monitoring
- Generates half the sludge of oily water separators using chemical coagulants.
- Can be used with a Clean Water Holding Tank as presented in MEPC.1/Circ.642, to decouple treatment from discharge for greater operational flexibility.
- State-of-the-art laser-induced fluorescence OCM that detects oil and not other contaminants.

Bilge water vs. Treated Effluent

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Oily Bilgewater Treatment to less than 5 ppm

TECHNICAL SPECIFICATIONS: WETT-O 6.1

DIMENSIONS	
Total Dry Weight & Footprint	451 kg (995 lbs) 0.9 m (2.9 ft) x 1 m (3.4 ft) x 1.5 m (5.1 ft) (W x D x H)
OPERATING CONDITIONS	
Nominal Throughput	1.44 m^3/d (380 gal/d) for 5 ppm discharge 2.16 m3/d (560 gal/d) for 15 ppm discharge
Liquid Temperature	4-55 °C (39-131 °F)
Ambient Temperature	< 40 °C (104 °F), control cabinet must be air cooled if T > 40 °C (104 °F)
Types of Wastewater	Bilgewater, oily-water
UTILITIES / CONSUMABLES	
Electrical Consumption	<1 kW (230 or 440VAC/60Hz)
Aluminum Electrodes	Replacement every 3 months (varies depending on bilgewater generation rate and contamination level)
Fresh Water	4 L/min at 16 psi (1 gal/min) for automatic shutdown cleaning procedure (take 30 mins)
Dilution Air	40 L/min (85 CFH) for dilution of gaseous emission
EMISSIONS	
Gaseous	Total flow approximately 0.16 L/min (0.34 CFH) H_2 at 30 °C (86 °F)
Treated Effluent	Typically 1.35 m^3/d (361 gal/d) for a nominal wastewater throughput of 1.44 m^3/d
Oily Sludge	Typically < 5% of the nominal wastewater throughput
Audible	Negligible
Surface Temperatures	Less than 35 °C (95 °F)

1.4 m^3/day (left) and 7.2 m^3/day (right) versions. Specifications are included for the smaller version.

USCG and ABS Certified

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