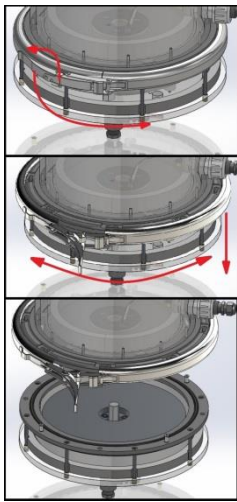


Wastewater Electrochemical Treatment Technology

WETT-O removes a variety of pollutants from oily bilgewater or wastewater

- Free and Emulsified Oils
- Grease
- Heavy Metals
- Suspended Solids
- Most Dissolved Organics
- Bacteria
- Detergents
- Phosphorus

Simple electrode change-out
In less than 15 minutes



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

Treats to 5 ppm or 15 ppm discharge standard

Shipboard Tested

Chemical-Free and Filter-Free
Electrochemical Process

Fully Automated Operation

Removal of Toxic Heavy Metals

Removal of Deleterious Phosphorus

Low Oily Sludge Generation Rate

WETT is Terragon's proprietary technology. **WETT-O** purifies the bilge oily water using a novel, compact and efficient electrochemical purification reactor to provide an ultra clean water for safe discharge.

Features

- WETT-O consists of a compact free oil separator (FOS) and a proprietary electrochemical purification technology (EC)
- Operation unaffected by dynamic pitch and roll, and vibration
- Self-cleaning electrochemical process
- Push button start-up, automated operation with remote monitoring
- Continuous treatment 24/7
- Generates half the sludge of oily water separators using chemical coagulants
- Comes with a state-of-the-art laser-induced fluorescence OCM that detects only oil and not other contaminants
- Designed to be used with a Clean Water Holding Tank as presented in the MEPC.1/Circ.642 if desired
- Clean Water Holding Tank decouples treatment from discharge for greater operational flexibility



TECHNICAL SPECIFICATIONS - WETT-O

Total Dry and Wet Weights	Dry: 451 kg (995 lbs) Wet: 572 kg (1262 lbs)
Overall Dimensions	0.9 m (L) x 1 m (W) x 1.5 m (H) 2.89 ft (L) x 3.41 ft (W) x 5.04 ft (H)

OPERATING CONDITIONS

Nominal Waste Water Throughput	1.44 m³/d (380 gal/d) for a discharge at 5 ppm 2.16 m³/d (560 gal/d) for a discharge at 15 ppm
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 Waste Water	Bilgewater, oily water

UTILITIES / CONSUMABLES

Electrical Consumption	<1 kW (230 or 440VAC/60Hz)
Aluminum Electrodes	Average of 4kg/month for nominal waste water throughput (3 months replacement) Will vary depending on Waste Water generation rate and pollutant levels
Fresh Water	4 L/min at 16 psi (1 gal/min) for automatic shutdown cleaning procedure that takes 30 minutes
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 m³/d (361 gal/d) for a Nominal Waste Water Throughput of 1.44 m ³ /d Typically 2.05 m³/d (542 gal/d) for a Nominal Waste Water Throughput of 2.16 m ³ /d Will vary depending on the concentration of oil and other pollutants
Oily Sludge	Typically < 5% of the nominal waste water throughput
Audible	Negligible
Surface Temperatures	Less than 35 °C (95 °F)

LARGER WETT-O SYSTEMS AVAILABLE

The table below shows different WETT-O models available. For more information about these models, please contact us.

Model Number	Capacity (m ³ /day)	
	< 5 ppm oil in effluent	< 15 ppm oil in effluent
WETT-O 6.1	1.44	2.16
WETT-O 6.2	2.88	4.32
WETT-O 6.3	4.32	6.48
WETT-O 6.4	5.76	8.64
WETT-O 6.5	7.20	10.8

WETT-O WITH 5 EC MODULES

