

Patented, Compact Modular Design Unaffected by Pitch, Roll, or Vibration.  
No Minimum Treatment Volumes or Frequency.

**WETT-S** uses advanced oxidation to scrub nearly all contaminants from blackwater.

## Wastewater Electrochemical Treatment Technology

### CERTIFICATION OF COMPLIANCE WITH 33 CFR 159

### Type II Marine Sanitation Device

### Compliance with the requirements of MARPOL Annex IV

- Suspended Solids • Dissolved Organics • Bacteria/Virus • Detergents • Phosphorus • Nitrogen
- Pharmaceutical Residues • Free and Emulsified Oils • Grease • Heavy Metals



*Chemical-free and Membrane-free*

*Fully Automated and Self-Cleaning*

*Unaffected by Pitch, Roll and Vibration*

*Removes Deleterious Phosphorus & Nitrogen*

*Removes Toxic Heavy Metals*

*ON/OFF Operation, No Minimum Volume*

*Treated Effluent in less than 1 Hour*

*Can be Safely Operated in Sensitive Areas*

*Treats both Greywater and Blackwater*

### Important Features of WETT-S™

- Compact, modular design with no biological treatment, use of added chemicals and no UV disinfection.
- Does not require daily/weekly cleanings of electrodes such as typically required for systems with electrolytic hypochlorite generation.
- Reduced cost of waste processing compared to incineration (less fuel usage) and wastewater discharge to port.
- Certified for use in Special Marine Areas, such as the Baltic Sea, Alaska, or other waters requiring greywater treatment.

### TYPICAL TREATMENT RESULTS

Parameters in Treated Effluent		
BOD <sub>5</sub>	(mg/L)	< 8
COD	( mg/L)	< 23
TSS	(mg/L)	< 6
TN	(mg/L)	< 0.5
TP	(mg/L)	< 0.05
F.C.	(tcu/100mL)	< 1

### TECHNICAL SPECIFICATIONS (WETT- S v6.5)

#### DIMENSIONS

Total Dry Weight & Footprint	2500 kg (5515 lbs) 3.1 m (10 ft) x 2.4 m (8 ft) x 2.4 m (8 ft) (W x D x H)
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#### OPERATING CONDITIONS

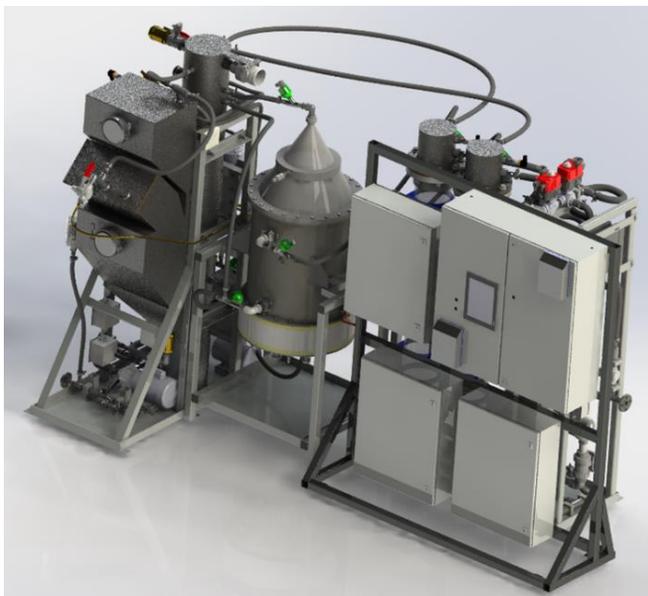
Nominal Throughput	7.2 m <sup>3</sup> /d (1,900 gal/d)
Liquid Temperature	4-55 °C (39-131 °F)
Ambient Temperature	< 40 °C (104 °F), control cabinet must be air cooled if T > 40 °C (104 °F)
Types of Wastewater	Vacuum-collected blackwater or sewage. Can treat gravity-collected blackwater if fresh water is used.

#### UTILITIES / CONSUMABLES

Electrical Consumption:	230VAC ± 10% (207V - 253V), 3 phase, 60Hz, 16.3kVA (12kW) Protected by an 80A main breaker.
Aluminum Electrodes:	Expected replacement every 2 to 4 months. Will vary depending on sewage wastewater generation rate and pollutant levels.
Fresh Water:	4 L/min at minimum 3 psi (1 gal/min) for automatic shutdown cleaning procedure.
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 <sub>2</sub> at 30 °C (86 °F)
Treated Effluent:	Approximately 6.75 m <sup>3</sup> /d (1783 gal/day) for 7.2 m <sup>3</sup> /day Nominal Wastewater Throughput
Sludge:	Approximately < 5% of the Nominal Wastewater Throughput
Audible:	Negligible
Surface Temperature	< 35 °C (95 °F)



**USCG and ABS  
Certified**

