SOLUTIONS FOR SUSTAINABLE SUPERYACHTS

1.1.616111



Sustainability is no longer about doing less harm. It's about doing more good.



Group of Companies

Complete Solutions

About EPE

Environmental Protection Engineering (EPE) S.A. is a global environmental company that provides a wide range of products and services including: Emergency oil & chemical spill response, marine and industrial spill response, management of hazardous and non-hazardous waste, environmental rehabilitation and protection services, consulting services and training services. By continuously investing in research, development and implementation of innovative technologies, Environmental Protection Engineering S.A. (EPE) is now considered to be the largest Environmental Services Provider Company in the Eastern Mediterranean.

About ERMA FIRST

Founded in 2009 and headquartered in Greece, ERMA FIRST is a global leader in ballast water technology solutions. The ERMA FIRST robust systems ensure worldwide compliance, provide operational simplicity and reduce operational expenditure. The ERMA FIRST customer-centric approach also offers flexible and convenient servicing through a trusted network of engineers worldwide. ERMA FIRST provides sales, maintenance and training to clients via a network of offices in 46 countries. ERMA FIRST is the winner of the Lloyd's List Technical Achievement Award (2013) and the Green4Sea Technology Award (2016).

About RWO For over 45 years, RWO has been supplying future-proof solutions for marine water treatment - made in Germany. The product portfolio includes equipment for the treatment of drinking and process water as well as systems for pollution prevention such as oily water separators or sewage treatment plants. Today RWO is recognized as a technological leader in the field of oil/water-separation with over 16.000 units delivered worldwide. More than 40 sales and service stations ensure short communication links and local availability of trained service engineers.

About oneTANK

oneTANK LLC is a specialty manufacturer of ballast water treatment systems for small vessels such as supervachts and workboats as well as for large ship affpeak tanks and semi-submersibles, oneTANK is a small scale innovative, low-cost, IMO Revised G8 Code and United States Coast Guard compliant system. Also, its mixing technology is developed and patented by U.S. Geological Survey. The oneTANK system is a game-changer for smaller vessels struggling to comply with stringent ballast water regulations. Founded by Glosten, oneTANK offers applications engineering, installation and commissioning support, and a robust spare parts and service program.

oneTANK

Ballast Water Treatment System

oneTANK is a simple, low-cost ballast water treatment option intended for vessels that do not need the typical complex, high capacity solutions. Its small size and minimal connections offer reliable results, and a fast and easy shipyard experience. The "do it yourself" model allows operators to install and commission their own systems. We provide the applications engineering and include remote support.







SMALLEST FOOTPRINT





Black Smoke & Odor Eliminator

Soot Elimination System offers reliable reduction of harmful emissions of your diesel generator under all circumstances. Exhaust gases free of Black Smoke (BS) and harmful PMs. The diesel particle filters (DPF) of the EGT series collect the BS from the exhaust stream. An powerful catalytic oxidizer upstream the DPF minimizes the regeneration temperature and reduces Hydro Carbons and Carbon Monoxide.



Poseidon FIT & OWS COM

Oily Water Separators

POSEIDON FIT is a versatile 5/15ppm OWS, supplied with a loose pump that can be installed in various locations and has the capability for bilge transfer. It consists of two stages; the coalescer and the emulsion breaking unit. The coalescer, equipped with a self-cleaning filter, works on a continuous mode, by-passing the second stage and thus prolonging the lifetime of the filters. If the Oil Content Monitor measures an effluent with oil content of more than 4/14ppm at the 1st stage outlet, then the emulsion breaking unit begins its operation.

More than 16000 ships have already been equipped with RWO's oily water separators since RWO started its business in 1975. The OWS-COM system uses a combination of highly effective open porous coalescer with automatic backflushing, together with a second stage emulsion breaking oil and hydrocarbon





SUPREME QUALITY

Triton EC & CleanSewage BIO

Marine Sewage Treatment

TRITON EC is a purely electrochemical wastewater treatment plant. It is a completely chemical-free system meeting the requirements of IMO/ME-PC.227(64). TRITON EC is designed for waste water treatment on board merchant ships, Navy vessels, yachts, ferries, small cruisers, offshore platforms and other marine type applications.



CleanSewage-BIO is a compact, type approved marine Sewage Treatment Plant (STP) for cargo vessels. With an incorporated Moving Bed Bio Reactor (MBBR), the CS-BIO requires minimal processvolume, still meeting the IMO MEPC.227(64) discharge criteria. The accessibility from one side allows ship designers to plan space in the engine room on a whole new level.



*Custom solutions upon request.

Tech Specifications

Complete Solutions

oneTANK

Operational Limitations:	Particulars
Salinity: Not Applicable Water Temperature: Not Applicable Hold Time: >24 Hours Min. Average Total Residual Oxidant (TRO): 5 mg/L Min. Concentration-Time (CT): 120 mg-hr/L	604mm x 559mm x 1,651mm, 216 kg 15 Amp 120 Volts, or 7.5 Amp 230 Volts Fully automated controls to vessel alarm and monitoring system
Type Approved	Support Services
DNV GL, IMO Revised BWM Code US Coast Guard	Applications engineering Installation and commissioning On-site service and spare parts



Poseidon FIT

Model	Capacity m³/h	Length mm	Width mm	Height mm	Power kW	Empty Weight kg
0.25	2.25	830	510	868	0.53	157
0.5	0.5	830	510	868	0.53	157
1.0	1.0	1100	800	1210	0.91	360
2.0	2.0	1450	860	1675	4.26	720

OWS COM

Model	Ca I
0.1	
0.25	
0.5	
1.0	
2.5	



ipacity m³/h	Length mm	Width mm	Height mm	Power kW	Empty Weight kg
0.1	715	650	1100	0.8	125
0.25	960	750	1005	2.6	180
0.5	960	750	1050	3.2	195
1.0	1170	800	1220	3.2	270
2.5	1510	1060	1485	3.7	457



DPF

Model	Filter	DPF Volume	For Genset of	Length mm	Width mm	Height mm	Weight mm
EGT4-10	1	20L	100-250K	950	Ф5	500	75
EGT4-20	2	40L	200-350K	1170	675	585	265
EGT4-30	3	60L	300-450K	1730	675	585	390
EGT4-40	4	80L	400-600K	1170	675	1170	450

PM (measured as PM10)	>97% reduction
Sound Attenuation	Std. Engine Muffle / Additional Sound Insulation on request

Application	Superyachts, other high end applications
Exhaust System	Suitable for dry or wet systems
Environment Engine Room	Clean Ambient temperature -10 +55°C
Degree of protection	IP55
Relative humidity	5 to 95% non-condensing
Inspection & service interval	5000h or 1x per year (normal conditions)





TRITON

TRITON

TRITON

TRITON

TRITON I

TRITON I

TRITON I

TRITON I

TRITON I

TRITON E

Model	Capacity m³/h	Organic Load Kg/d BOD5	Lenght mm	Width mm	Height mm	Net Weight kg	Filled Weight kg
02	2.16	1.38	2095	1250	1480	859	2923
03	3.24	2.07	2608	1346	1612	1149	4134
04	4.32	2.76	2559	1646	1618	1335	5293
05	6.48	4.15	2781	1656	2058	1627	7407
06	8.64	5.53	3365	1656	2058	1885	9278
07	10.80	6.91	3365	1986	2058	2121	11719

Triton EC

odel	Capacity m³/h	Organic Load Kg/d BOD5
N EC 15	1.5	1.2
N EC 35	3.5	2.8
N EC 50	5.0	4.0
N EC 65	6.5	5.2
I EC 100	10.0	8.0
I EC 200	20.0	16.0
I EC 300	30.0	24.0
I EC 500	50.0	40.0
I EC 600	60.0	48.0
I EC 700	70.0	56.0





CleanSewage BIO

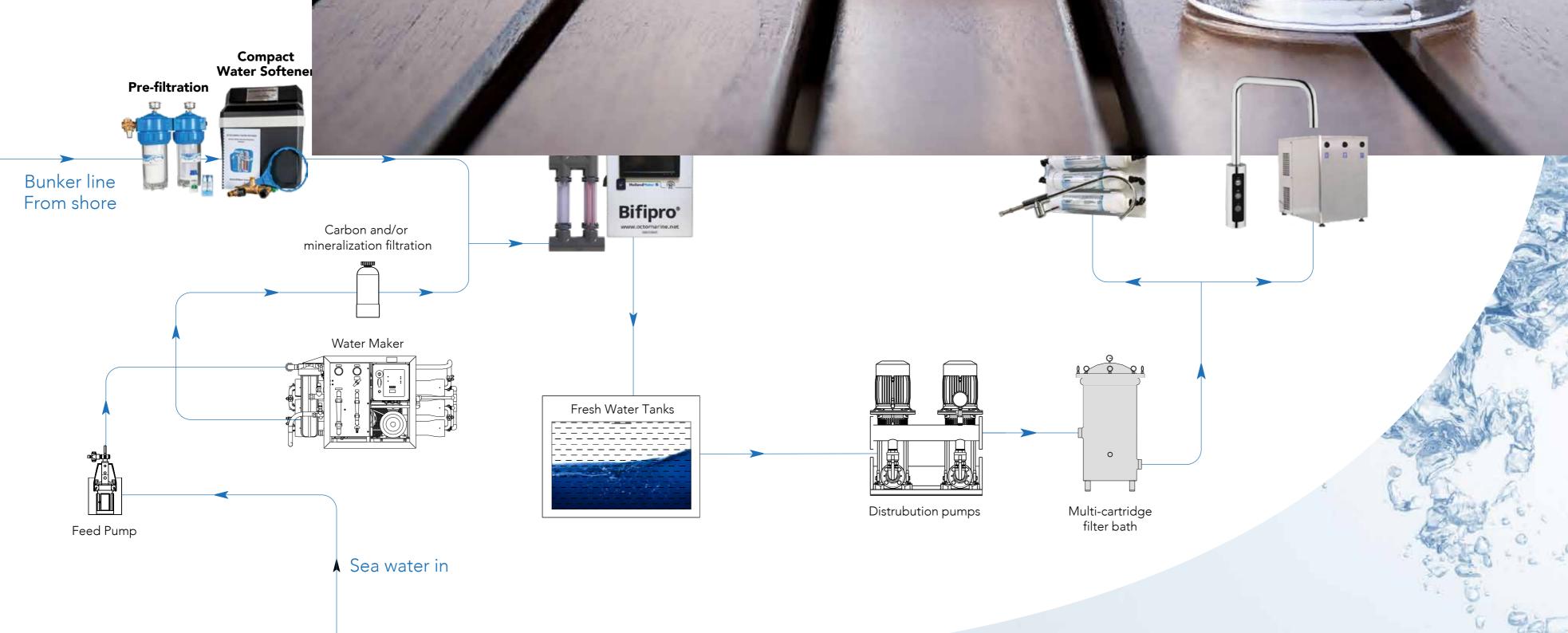
Fresh Water Solutions

Treatment Systems

Sustainability on board also means the elimination of plastic bottles. With the Fresh Water Solutions that EPE Yachting offers, yachts can now independently produce fresh mineral water. Our systems ensure the highest quality water possible, free from any harmful bacteria. You can now get rid of all plastic water containers and enjoy tasteful fresh water at any time.

PURE WATER





Services

Premium quality professional services

Quality Water Testing · Chemical Disinfection & Biofilm Treatment · Grey & Black Water Drainage System Cleaning · Integrated Fuel Treatment · HVAC Duct System Cleaning · Exhaust Gas System Cleaning · Galley/Hoods System Cleaning · Vacuum Sewage System Cleaning · Scupper Drainage System Cleaning · Sea Water Cooling System Cleaning · Grease Traps and Macerator System Cleaning



COMPLETE SERVICE SOLUTIONS



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