

epeco



flexible marine sewage treatment systems

marincel-ST

3-20 m³/day

Users

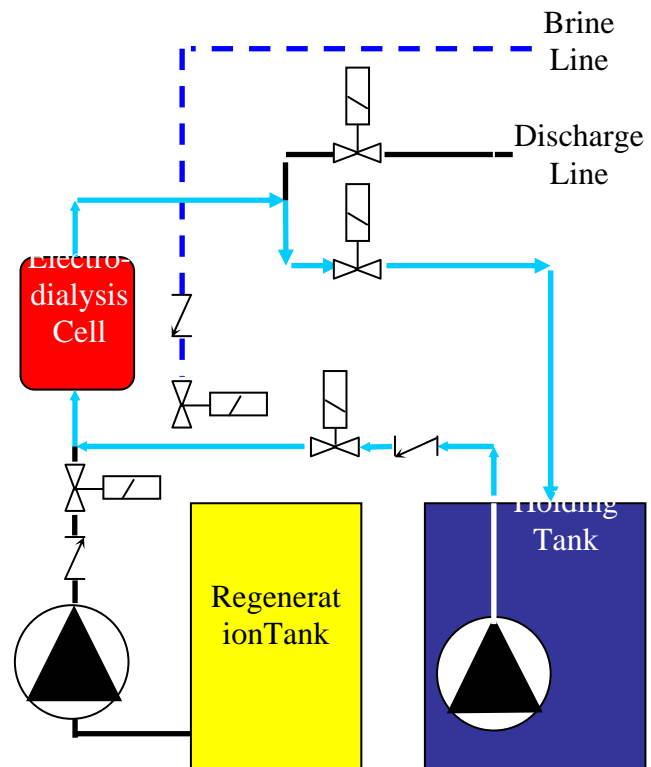


marincel-ST will treat sewage water on ship boards off-shore installations and coastal villages . It will destroy BOD, reduce COD, oxidize everything that is oxidizable to acceptable levels of most regulatory disciplines.

marincel-ST is flexible by design. It can be installed in separated modules incorporating the “power supply” and the “electrolytic analyzer” while the sewage water is circulated from and to the sewage tank . Alternatively, **marincel-ST** can be installed as integrated package incorporating skid mounted balancing and regeneration tanks, pumps, valves, controls.

Process

The operation of the **marincel-ST** is so simple. Sea water is used to produce sodium hypochlorite solution that can achieve up to 95% of biological decontamination while killing total micro-organisms in minutes. **marincel-ST** provides effective treatment for both “black water” (sewage), and “gray water” (waste water from showers, sinks, dishwashers, laundries and washdowns).



Features



marincel-ST has many features that make them economical, effective, efficient and environmentally safe.

Seawater is the only “chemical” used. No further chemicals are required to operate **marincel-ST**. **marincel-ST** are designed to operate “on-its-own”. No operator is required to monitor or control the operation.

and more.....

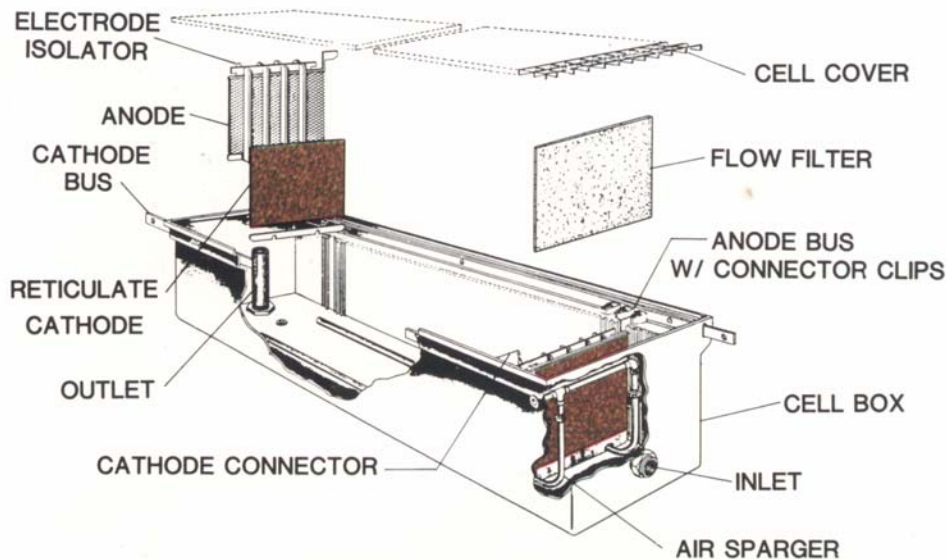
marincel-ST can reduce up to 95% of the biological contaminants in sewage. **marincel-ST** can also de-activate up to 99.9% of the micro-organisms contained in sewage. **marincel-ST** accepts highly varying hydraulic and/or biological loading with no sacrifice of effectiveness .

marincel-ST is of little weight and size. Limited number of rotating elements and minimal power consumption are guaranteed.

marincel-ST virtually meets all international legislations . Individual certificate of compliance with the guidelines of International Maritime Organization (IMO), United States Coast Guard (USCG), or Egyptian Environmental Affairs Authority (EEAA) guidelines can be issued.

With little arrangement, **marincel-ST** can be modified to treat municipal and industrial wastes. **marincel-ST** can destroy, neutralize and oxidize all oxidizable organics (VOCs), such as: PCBs, bromacil, dioxin, carbon tetrachloride, pentachlorophenol, ammonia, chloroform, toluene, BOD and COD. **marincel-ST** also can de-color, deodorize and sterilize the effluents.

Several **marincel-ST** are used to treat industrial wastes from electroplating, painting, food processing, chemicals, pharmaceutical, metal extracting, and more.



Design Data

Model	M-12	M-50	M-70
Personnel Equivalent			
Black Water Only	12	50	70

Black & Gray Water		30	125	175
Capacity				
Average Daily Capacity	l/day	3000	14000	20000
Peak Flow	l/hr	375	1750	2500
BOD loading	kg/day	1.62	7.20	10.30
Dimensions & Weights				
Length	mm	500	750	1000
Diameter	mm	70	100	170
Weight (Dry)	kg	12	25	35
(Wet)	kg	20	40	60
Connections				
Inlet Piping	mm	40	50	63
Outlet Piping	mm	63	50	63
Power				
Power Consumption	kwh	1	2	3
Power Supply	VDC		12/24	

EPECO



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International Maritime Organization (**IMO**)
United States Coast Guard (**USCG**)
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Customer Satisfaction Guarantee

marincel-ST

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