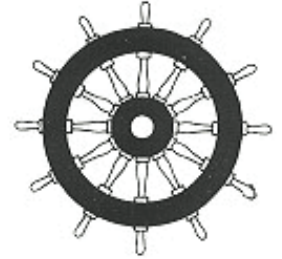


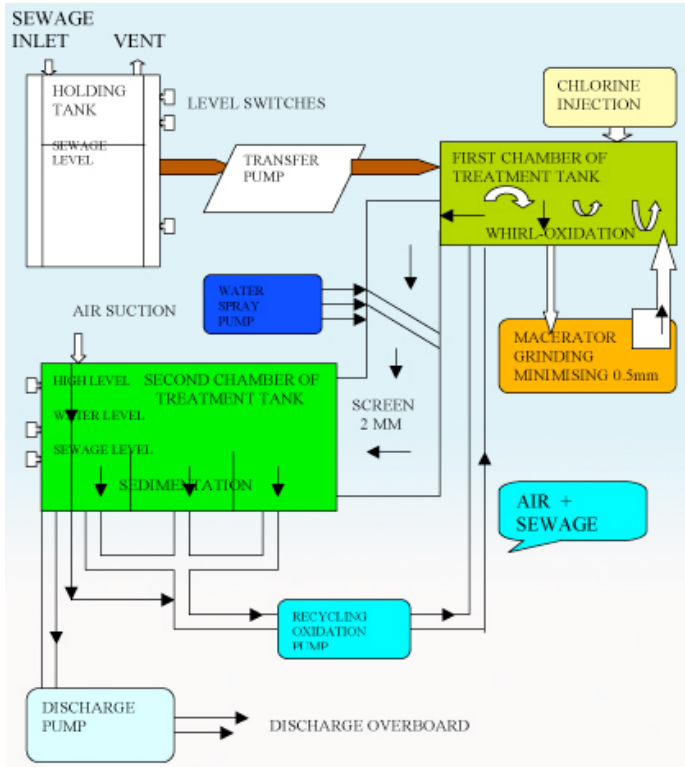
Biocon I,II,III marine sewage treatment systems



The BIOCON system represents today the most effective way of the sewage physicochemical process in marine vessels. Its operation is based on a physicochemical process under the oxygen presence for the oxidation of the organic substances and the bacteria disinfection through the action of Chlorine in the form of NaOCl. The quality of effluent upon the process completion is always suitable for discharge overboard according to the strictest legislation that is valid Internationally and especially IMO Resolution MEPC 2(VI) of IMO-592E.

The Biocon systems are approved by DNV complying with IMO/Marpol standards and are in accordance with 96/98/EC MED Directive.(Certificate No MED-B-2745)

- BIOCON systems are functioning completely automatically without any person's supervision, any malfunction is indicated and signaled accordingly and they are very simple in maintenance.
- Designed for continuous operation under minimal wear as they are constructed totally from stainless steel 316L, and pumps consist the solely moving parts.
- Equipped with specially designed macerator-homogenizer, fully manufactured from SS 316. (The whole body and moving impellers)
- Driven by a high degree of automated sequence PLC which can give alarm signals to the ships Control room.
- Video terminal screen on the panel permits the visualization and adjustment of important parameters according to every ships particular arrangement.
- Their weight and dimensions are small enough to be transferred through openings and installed in restricted spaces of new and already existing ships. For this purpose they can be easily divided in two major parts, the treatment tank and the support frame with the pumps included.



Flow Process of Mini Biocon Sewage Plant

A certain quantity of sewage is treated in every cycle. Under the presence of oxygen and Naocl, organic matter is oxidized and chemical-physical reactions inside disinfect the water and reduce the sediments volume so that the water can be discharged into the sea according to the international standards.

System Characteristics			
	Biocon I	Biocon II	Biocon III
Dimensions in mm (L x W x H)	940x425x1030	1360x580x1160	1610x700x1300
Weight	165	275	450
Power Supply (op.voltage/fr)	380/440 v. 50/60 Hz		
Total Power Kw	4.46	6.06	8.86
Hydraulic Flow Rate(lt/d)	7.848	24.219	43.854
Organic Load(kg BOD5/day)	4.05	12.45	22.56



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