

ITALIAN TECHNOLOGY ALL OVER THE WORLD

**ECO**mar



SEWAGE WATER TREATMENT SYSTEM



**TECNICOMAR**

SEWAGE TREATMENT PLANTS - WATERMAKERS

Sewage Water Treatment System



# Sewage Water Treatment System

ECOMar is able to treat grey and blackwater in compliance with international standards and to render it dischargeable directly into the sea, without solid residues.

Chemical-physical reactions inside disinfect the water and reduce the sediment dimensions so that the water becomes clear and odorless and can be discharged directly overboard. At the end of every cycle, an automatic washing of the tank takes place with clear sea water. The Ecomar central body, mounted on a strong steel chassis, is available in stainless steel material for all models, and in polypropylene for models 20, 32 and 45.

The LCD electronic control panel with microprocessor (electro-mechanical control panel for models 145 and 340) manages automatically all the functions of the system.

ECOMar has a very low electric power consumption and can also work in emergency mode.



ECOMar 340



ECOMar 340 -INOX-



ECOMar 145 -INOX-



ECOMar 70 -INOX-



ECOMar 45 -INOX / PP-



ECOMar 32 -INOX / PP-



ECOMar 20 -INOX / PP-

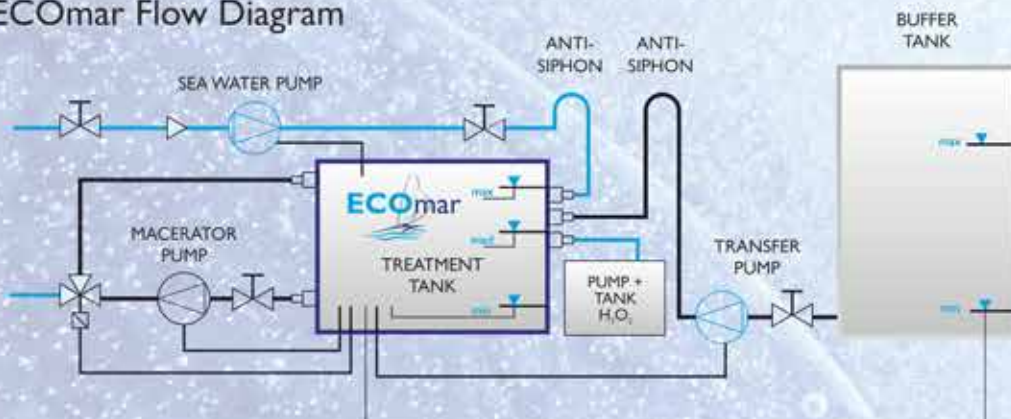


DESIGNED, PATENTED AND MADE BY TECNICOMAR

### MAIN ADVANTAGES OF ECOMar:

- POLLUTION FREE: the disinfectant liquid does not release poisonous substances
- NO RESIDUALS ON BOARD: consequently the installation of a sludge tank is not required
- EASY TO USE: totally automatic with possibility to operate it manually in emergency
- COMPACT: designed to work in small engine rooms
- VERSATILE: all voltages and frequencies available

### ECOMar Flow Diagram



- Complying with International Standards
- Treatment capacity from 2000 to 54500 litres per day
- Totally automatic operation with microprocessor control

## Technical Features

	ECOMAR 545	ECOMAR 340	ECOMAR 145	ECOMAR 70	ECOMAR 45	ECOMAR 32	ECOMAR 20
Max treatment capacity (litres/day)	54500	34000	14500	7000	4500	3200	2000
Work cycles per hour (approx.)	3	3	3	3	3	3	3
Power supply	230 / 400 V a.c.	230 / 400 V a.c.	230 / 400 V a.c.	230 / 400 V a.c.	230 / 400 V a.c.	230 / 400 V a.c.	230 / 400 V a.c.
Installed power (kW) at 230 V a.c.			1.1	1.1	1.1	0.75	0.75
at 400 V a.c.	11	5.5	1.5	1.5	1.5	0.75	0.75
Max absorption (A)	20	12	4.5 (400 V a.c.) / 7 (230 V a.c.)			2 (400 V a.c.) / 4 (230 V a.c.)	

## Dimensions and weight

Central unit dimensions (mm)	1970x1700 x1375	1390x1100x1350	1230x820x810	930x670x710	770x590x710	730x510x690	500x500x690
Tank dimensions (mm)	1785x995x1205	1300x850x1200	1150x600x700	850x470x620	710x390x650	660x320x600	450x300x600
Central unit weight (kg)	Inox	915	450	190	112	100	46
	PP					70	40
Persons if passenger ships* (without vacuum system - 230 l/day)	236	147	63	30	19	14	8
Persons if passenger ships* (with vacuum system - 185 l/day)	294	183	78	37	24	17	10
Persons if other ships* (without vacuum system - 180 l/day)	302	188	80	38	25	17	11
Persons if other ships* (with vacuum system - 135 l/day)	403	251	107	51	33	23	14

\* at peak treatment capacity per day



7" LCD touch-screen remote control



CDMAR-2 remote control

### OPTIONALS:

ECOMAR is also available with LCD touch-screen remote control, CDMAR-2 remote control and by on board PC for operation, diagnosis, settings and maintenance



Lloyd's Register

CERTIFIED BY LLOYD'S REGISTER ACCORDING TO THE RESOLUTION MEPC 227 (64) AND EUROPEAN DIRECTIVES (MED) 96/98/EC AND SUBSEQUENT AMENDMENTS.

U.S. COAST GUARD CERTIFIED



SEA WATER AND TRANSFER PUMPS



DOSING PUMP



0038/16



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MADE IN ITALY



DESIGNED, PATENTED AND MADE BY TECNICOMAR



GPS Coordinates: 37°45'9.78"N - 12°28'46.14"E



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COMPANY WITH  
 QUALITY SYSTEM  
 CERTIFIED BY DNV GL  
 + ISO 9001 +

COMPANY WITH  
 SAFETY SYSTEM  
 CERTIFIED BY DNV GL  
 + OHSAS 18001 +