



ITALIAN TECHNOLOGY ALL OVER THE WORLD

# Marine & Offshore

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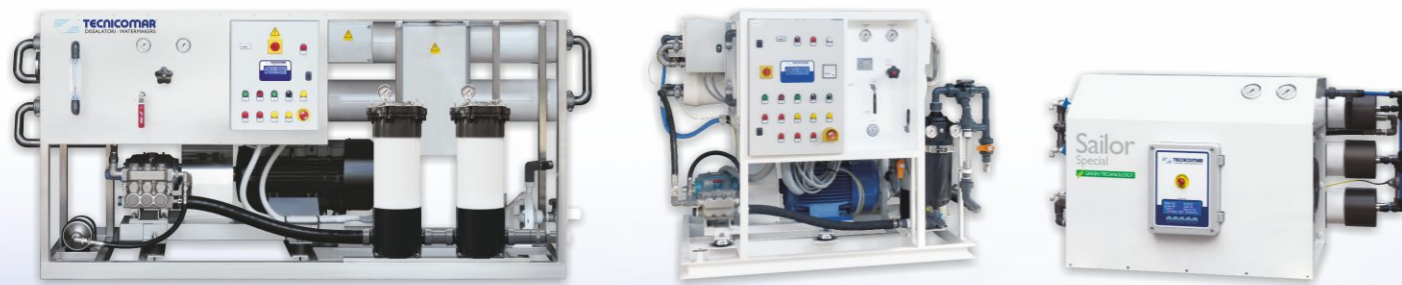
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## **TECNICOMAR**

Reverse Osmosis Watermakers  
Water Treatment Systems  
Sewage Treatment Plants



38 years of experience in providing solutions for every demand of water treatment, anytime and everywhere.

ESTABLISHED IN 1978 BY MR. FRANCESCO DE VITA, TECNICOMAR S.P.A. SHORTLY BECAME A LEADING COMPANY DESIGNING AND MANUFACTURING REVERSE OSMOSIS WATERMAKERS AND WATER PURIFYING SYSTEMS FOR YACHTING, NAVAL, OFFSHORE, INDUSTRIAL AND RESIDENTIAL APPLICATIONS.

SINCE THEN, TECNICOMAR HAS BUILT A STRONG REPUTATION WITHIN MARITIME INDUSTRY SUPPLYING A WIDE RANGE OF PRODUCTS MEETING ANY DRINKABLE WATER NEED AND ENGINEERED TO BE THE MOST RELIABLE, LONGER LAST AND MORE CONVENIENT BECAUSE GREEN TECHNOLOGY BASED GIVING UP TO 60% MORE OF FRESH WATER AND 35% LESS OF ENERGY CONSUMPTION.

IN 2004, TECNICOMAR HAS DEVELOPED A NEW PRODUCT LINE BY LAUNCHING IN THE MARKET THE STATE-OF-THE-ART SEWAGE TREATMENT PLANT, REPRESENTED BY THE ECOMAR WHICH IS A PATENTED SYSTEM, CHEMICAL TYPE, FULL AUTOMATIC OPERATION, CERTIFIED BY LLOYD'S REGISTER AND DESIGNED TO TREAT BLACK AND GREY WATER IN COMPLIANCE WITH IMO MARPOL RESOLUTIONS MEPC 227 (64) INCLUDING PARA 4.2.

NOWADAYS, TECNICOMAR DELIVERS ITS HIGH-QUALITY SYSTEMS ALL OVER THE WORLD THROUGH A LARGE NETWORK OF FACTORY-TRAINED SALES AND SERVICE READILY AVAILABLE TO ASSIST OUR VALUED CUSTOMERS ANYTIME WHEREVER THEY ARE. OVER 38 YEARS OF BUSINESS ACTIVITY, TECNICOMAR HAS ALSO GAINED SEVERAL OUTSTANDING CERTIFICATIONS SUCH AS ISO 9001 AND OHSAS 18001 WHICH HIGHLIGHT THE RELIABILITY AND HIGH QUALITY OF OUR MANAGEMENT SYSTEM.



Reverse Osmosis Watermakers  
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# THE HISTORY

1978



Mr. Francesco De Vita founds Tecnicomar with the manufacture of the first Reverse Osmosis watermaker ever, made in Europe designed for Yachting application. Shortly, the company starts approaching new fields such as Offshore, Defense and Industrial getting experienced with big units suitable to work in hard conditions and compliant with military standards.



2001

Given the great results soon achieved thanks to the reliability and high performance of its products, Tecnicomar is awarded the UNI EN ISO 9001:2000 Quality Certification.



2004

Tecnicomar launches a new product line in the field of waste water treatment, represented by an innovative Sewage Treatment Plant, called the ECOMAR which shortly becomes the state-of-the-art system, fully compliant with IMO MARPOL standards, certified by Lloyd's Register and approved by the U.S. Coast Guard.

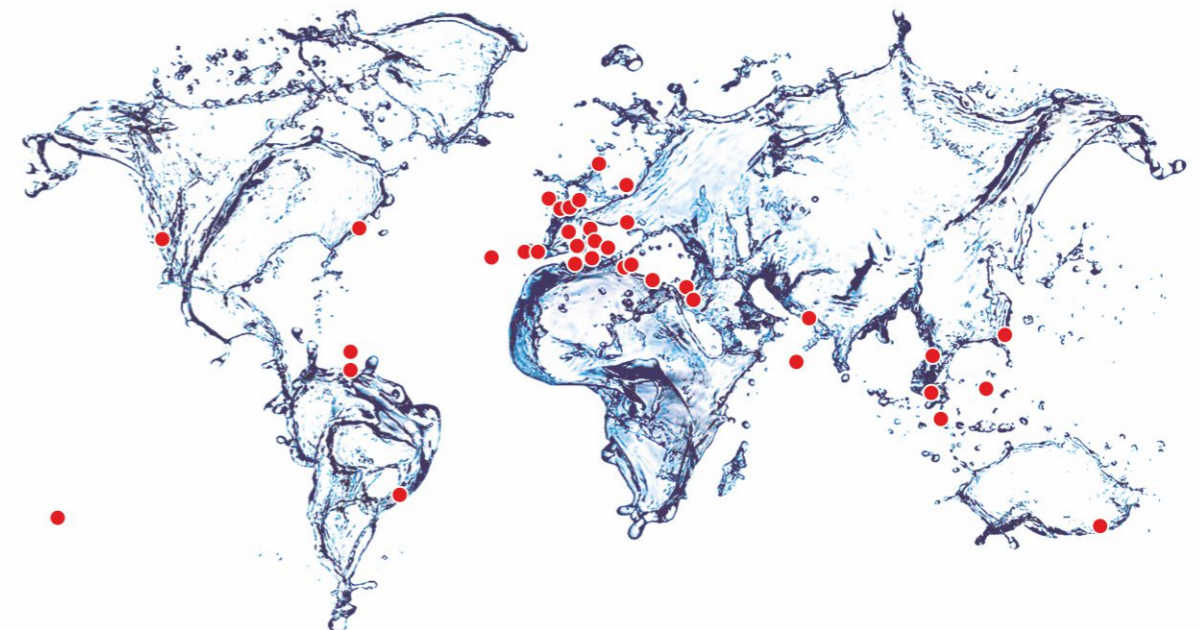


2014

Tecnicomar succeeds in most of its markets, driven by innovative products, continuous R&D and a strong network of distributors operating over 40 countries which lead the company to achieve brilliant results. Consequently, Tecnicomar builds a sister facility of 3000 sqm next to the current one to increase the production. Tecnicomar is awarded the OHSAS 18001:2007 Safety Certification and the FPAL Certification.



## OUR INTERNATIONAL PRESENCE:



2008

Tecnicomar moves its headquarters and production into a 4500 sqm facility based in Marsala (Italy) to better face an increasing demand and to assist its clients more properly and timely.



## CERTIFICATIONS

Over 38 years of business activity, Tecnicomar got several different certificates about Quality Management System, issued by some of the most important international Authorities such as DNV, for UNI EN ISO 9001:2000 Quality Certification and OHSAS 18001:2007 Safety Certification, FPAL Certification and Lloyd's Register & TÜV compliance.

### Company Certifications:



### Components & Products are Approved by:



### The Company is Member of:



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Reverse Osmosis Watermakers  
Water Treatment Systems  
Sewage Treatment Plants

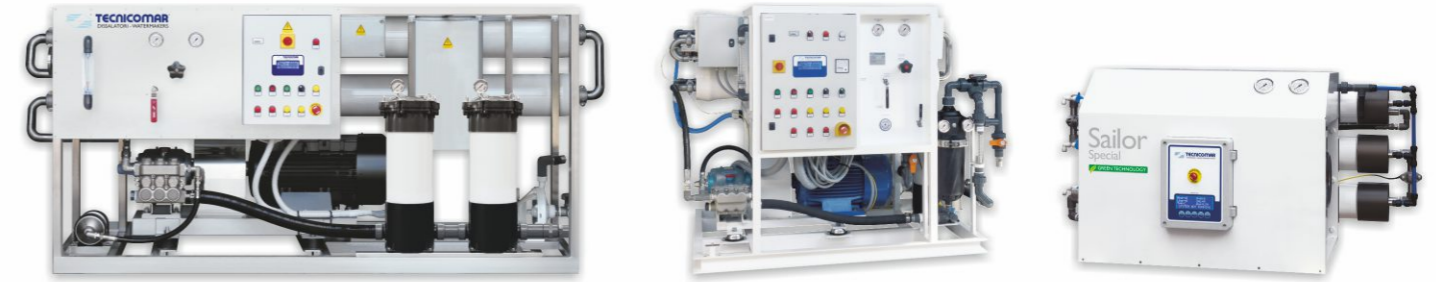
## Reverse Osmosis Watermakers

### STANDARD FEATURES

- Compliance with Offshore and Defense standard for electrical and mechanical components
- Feed pump in bronze, highly resistant to corrosion. Available in AISI 316L stainless steel
- High flow rate cartridge filtration, 30 and 5 micron, allowing a reduced maintenance
- Direct motor-pump coupling system with vibration dampers, reducing noise and vibration
- Tropicalized motor with low electric consumption, high ambient temperature resistant
- CAT high pressure pump with solid ceramic plungers and AISI 316L stainless steel pump body for continuous duty. Duplex and super duplex high pressure pump for high salty water applications.
- Reverse Osmosis membranes, Filmtec/Dow with high chemical resistant, spiral wound type in thin film composite. FDA and NSF/ANSI standards compliant
- Reinforced fiberglass pressure vessels ASME certified
- Electronic monitoring of produced water quality with the automatic deviation out of board when quality does not reach the preset values
- High pressure pipes and fitting in AISI 316L stainless steel. Duplex and super duplex for special applications.
- Hoses, pipes and fittings in alimentary use material for potable water. AISI 316L stainless steel for special applications.
  - Running signals and alarms available for system monitoring
  - Pressure and vacuum pressure gauges in AISI 316L stainless steel, glycerine filled
  - Operating hours meter for easy scheduling of ordinary maintenance
  - Assembled on a AISI 316L stainless steel skid, with anticorrosive protective paint
  - Well designed for extremely hard conditions operation

### SPECIAL GREEN SERIES:

The new Tecnicomar ECO watermakers produce up to 60% more fresh water and consume up to 35% less of energy consumption than others, based on the same size!



### OPTIONAL FEATURES

- Bronze water strainer to prevent clogging of coarse filter and cartridge filters from marine debris
- Semi-automatic self-cleaning prefilter based on a swirl effect obtained by means of a propeller at the filter inlet, preserving the prefilter elements on the Reverse Osmosis system from marine debris
- Antiscalant dosing system to prevent the formation of scale on the membrane surfaces and membrane fouling avoiding premature membrane replacement
- Heating group, by electrical resistance and/or heat exchanger, for raising the temperature of sea water and potable water
- Multimedia sand filter to reduce the level of suspended solids (turbidity) in incoming feed water
- Cleaning/flushing system for assuring a longer membranes life
- Booster system for produced water
- Energy recovery system for low energy consumption and high performances
- Mineralizing filter to adjust the pH value of fresh water
- Automatic dosing systems for the water sterilization by chemicals dosage
- Carbon (de-chlorinating) filter to remove sediment and excessive chlorine in the water, to improve taste and removes smell before consumers
- UV sterilizers, available with flow control device in case of alarms
- Multi-purpose Reverse Osmosis units, for fresh water and technical water production
- Customized modules depending on available space
- Containerized package
- Special military equipments
- Availability of shock, noise and vibration tests on request



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## SAILOR SPECIAL COMPACT GREEN

### SPECIAL GREEN SERIES:

The new Tecnicomar ECO watermakers produce up to 60% more fresh water and consume up to 35% less of energy consumption than others, based on the same size!

Tecnicomar Sailor Special Green series has been designed with the scope to reduce the energy demand per produced liter/gallon.

Thanks to an overall process improvement and to the installation of highly innovative membranes, the system allows energy savings of 35% compared to other conventional desalination equipments. It is equipped with an advanced microprocessor controlling all functions and sensors. One-touch-operation system that can be switched to manual operation, if needed.

The Tecnicomar Sailor Special Green stands out for simplicity of use and high quality components like the stainless steel high pressure pump with solid ceramic plungers, the powder coated stainless steel frame, FDA compliant filters and ASME certified pressure vessels.

The standard configuration includes a full-featured, ready to install watermaker with automatic pressure regulation and installation kit. On request, the system can be supplied with automatic membrane flushing and a remote control.



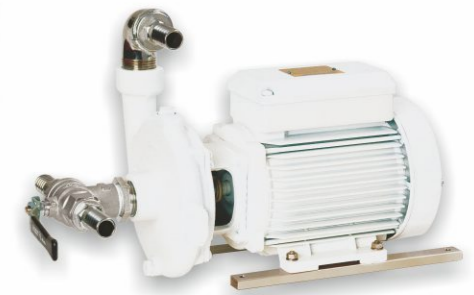
SAILOR SPECIAL GREEN 3/44



- EASY USE:
- FULL AUTOMATIC
- LOW NOISE OPERATION



SAILOR COMPACT 3/40 WITH ALUMINIUM FRAME



BOOSTER PUMP

### TECHNICAL DATA SAILOR SPECIAL GREEN

Model	Production per hour (litres / gallons)	Production per day (litres / gallons)	Voltage (Volt) / Frequency (Hz) Installed Power (kW)	Max dimensions -L x W x H- (mm)	Weight (kg)
2/21	100 / 28	2400 / 634	400 V AC - 50 Hz 3-phase - 2.2 kW	750 x 520 x 360	52
3/21	160 / 42	3840 / 1024	400 V AC - 50 Hz 3-phase - 2.2 kW	750 x 520 x 360	55
2/40	250 / 66	6000 / 1585	400V AC - 50 Hz 3-phase - 3 kW	1170 x 520 x 360	64
3/40	350 / 92	8400 / 2219	400 V AC - 50 Hz 3-phase - 3 kW	1170 x 520 x 360	68
2/44	600 / 158	14400 / 3794	400 V AC - 50 Hz 3-phase - 5.5 kW	1270 x 600 x 440	95
3/44	800 / 210	19200 / 5059	400 V AC - 50 Hz 3-phase - 5.5 kW	1270 x 600 x 600	110

other voltages and frequencies available on demand

### Accessories



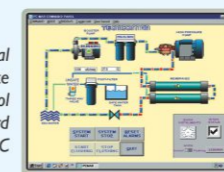
Optional 7" LCD touch-screen display



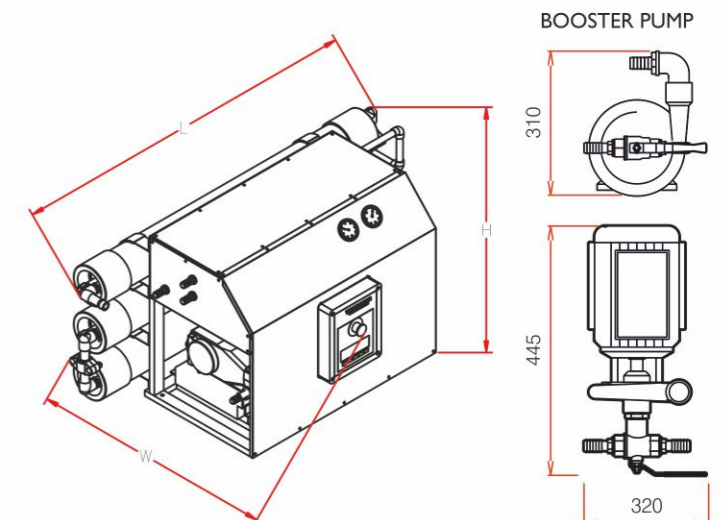
Automatic membranes flushing filter



Optional CDMAR-2 Remote Control



Optional Remote Control by on-board PC



BOOSTER PUMP

## SAILOR COMPACT

The Sailor Compact series is ideal for all sailing and motor boats as well as for superyachts and vessels requesting a considerable quantity of fresh water and the comfort of a microprocessor controlled, one-touch-operation system that can be switched to manual operation, if needed. The Sailor Compact stands out for simplicity of use and high quality components like the stainless steel high pressure pump with solid ceramic plungers, the powder coated aluminium frame, TÜV

certified filters and corrosion free and lightweight carbon fiber pressure vessels.

The standard supply includes a full-featured, ready to install watermaker with automatic pressure regulation and installation kit. On request, the system can be supplied with automatic membrane flushing.

Available in two configurations to ease installation: compact and modular (Sailor Compact Slim version) for tight spaces.

SAILOR COMPACT 600 WITH ALUMINIUM FRAME



### Accessories

Automatic membranes flushing filter



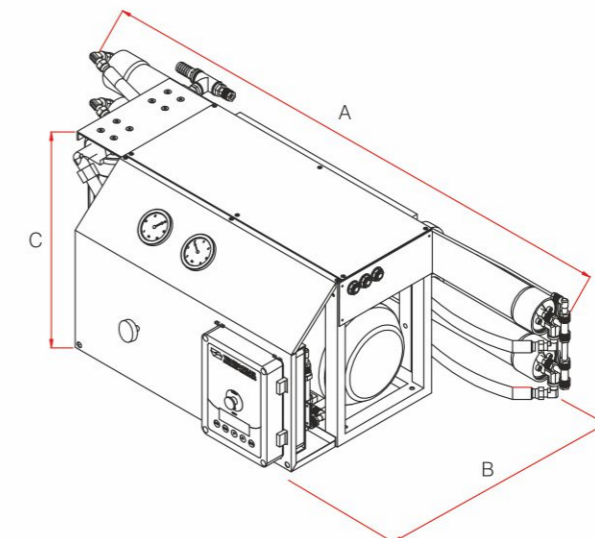
SAILOR COMPACT SLIM 1500



### TECHNICAL DATA

Model	Production per hour (litres / gallons)	Production per day (litres / gallons)	Voltage (Volt) / Frequency (Hz) Installed Power (kW)	Max Dimensions (mm)			Weight (kg)
				A	B	C	
SAILOR COMPACT 400	70 / 18.5	1,680 / 443	230VAC - 50 Hz* - 1.5 kW	750	520	360	52
SAILOR COMPACT 600	100 / 26.4	2,400 / 634	230VAC - 50 Hz* - 1.8 kW	750	520	360	55
SAILOR COMPACT 1000	160 / 42.2	3,840 / 1,014	230VAC - 50 Hz* - 1.8 kW	1170	520	360	64
SAILOR COMPACT 1500	220 / 58.1	5,280 / 1,395	230VAC - 50 Hz* - 1.8 kW	1170	520	360	68

other voltages and frequencies available on demand



BOOSTER PUMP

