

Reverse Osmosis Watermakers

General Catalog
Marine & Offshore



TECNICOMAR®
WATERMAKERS - SEWAGE TREATMENT PLANTS

Leader provider of Marine Equipments.



General Index

Our History	4
Certifications	6
<i>Special Green Technology Reverse Osmosis Watermakers</i>	
Standard Features	8
Optional Features	9
SW8	10
STDC SY	12
BiCompact	14
Sailor Special	16
Sailor Compact	18
Essential	20
Oasi	21
<i>Water Treatment Systems</i>	22
Dosing Systems	24
UltraPur	25
TFD Filters	26
BFS Filters	27
Activated Carbon & Calcite Filters	28
Softeners	29
UV Filters	30
AquaPUR Water Purifiers	32
R. O. Chillers & Carbonators	33
<i>Customized Systems</i>	34
<i>References</i>	35

Worldwide References:



Over 40 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 SYSTEM 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.

NOWADAYS, TECNICOMAR DELIVERS ITS HIGH-QUALITY SYSTEM ALL OVER THE WORLD THROUGH A LARGE NETWORK OF FACTORY-TRAINED SALES AND SERVICE READLY AVAILABLE TO ASSIST OUR VALUED CUSTOMERS ANYTIME WHEREVER THEY ARE. OVER 40 YEARS OF BUSINESS ACTIVITY, TECNICOMAR HAS ALSO GAINED SEVERAL OUTSTANDING CERTIFICATIONS SUCH AS ISO 9001:2015 AND ISO 45001:2018 WHICH HIGHLIGHT THE RELIABILITY AND HIGH QUALITY OF OUR MANAGEMENT SYSTEM.



TECNICOMAR[®]
WATERMAKERS - SEWAGE TREATMENT PLANTS

Leader provider of Marine Equipments.

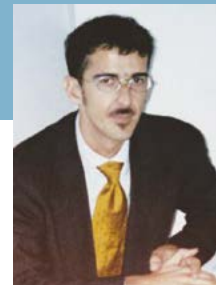
THE HISTORY

1978



Mr. Francesco De Vita founds Tecnicomar with the manufacture of the first Reverse Osmosis watermaker ever made in Europe and 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.

1990



With the new General Manager Tommaso De Vita the company strengthens the presence on international markets and improving the standard quality.

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 several international standards and approved by the U.S. Coast Guard.



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.



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.

Tecnicomar is awarded the UNI EN ISO 9001:2000 Quality Certification in 2001, the OHSAS 18001:2007 Safety Certification and the FPAL Certification.



2016

Tecnicomar builds a sister facility of 3000 sqm. next to the current one to increase the production. Also, Mrs. Laura De Vita becomes the Sole Administrator & General Manager of Tecnicomar S.p.A. -march, 2016-.



2019

Tecnicomar, always close to the most particular needs of the market, announces the launch of a new product: ECOMar S. The new series offers several advantages and it is supplied with an approval certificate conforming to IMO/MARPOL MEPC 227(64) Regulations.



2020



2021

Tecnicomar launches Ecomar SX, its latest innovation in sewage treatment plants. This system is characterized not only by its reliability, but also by its highly compact structure. This allows easy installation even in small spaces. Certified to the latest IMO MARPOL MEPC.227(64) Resolutions.



CERTIFICATIONS



Over 40 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 ISO 9001:2015 Quality Management System standard and Occupational Health and Safety Management System standard ISO 45001:2018.



Reverse Osmosis Watermakers



TECNICOMAR[®]
WATERMAKERS - SEWAGE TREATMENT PLANTS

Leader provider of Marine Equipments.

Reverse Osmosis Watermakers

STANDARD FEATURES

- Compliance with Offshore and Defense standard for electrical and mechanical components
- Well designed for extremely hard conditions operation
- Double prefilter with reusable high flow rate cartridge filtration, 30 and 5 micron, allowing a reduced maintenance
- Carbon fibre pressure vessels TÜV certified for BiCompact, Sailor and Oasi models (reinforced fiberglass vessels, A.S.M.E. certified, for Essential, Sailor Special 2/44 and 3/44, STDC SY and SW8 watermakers)
- Reverse Osmosis membranes Filmtec/Dow with high chemical resistance, spiral wound type in thin film composite. FDA and NSF/ANSI standards compliant
- CAT high pressure pump with solid ceramic plungers and AISI 316L stainless steel pump head for continuous duty. Duplex and Super Duplex high pressure pump for high salty water applications.
- Feed pump in bronze for marine applications, highly resistant to corrosion. On demand available in AISI 316L stainless steel
- Delayed starting of the high pressure pump avoids the overload during system start
- Direct motor-pump coupling system with vibration dampers, reducing noise and vibration
- Tropicalized motor with low electric consumption, high ambient temperature resistant
- Double instrumentation for analogical and digital readings (standard for Sailor Compact, Sailor Special, Bicomcompact). On request for all other plants.
- Compact frames in Stainless Steel skid 316L, with anticorrosive protective paint
- 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 salty water applications.
- Pressure and vacuum pressure gauges in Stainless Steel 316L, glycerine filled
- Manual three way valve for easy membrane cleaning/flushing
- Predisposition for automatic membrane flushing after each watermaker stop
- Automatic pressure regulation device (standard for Sailor Special, Bicomcompact). On request for all other plants.
- Predisposition for final filtration with activated carbon filter -on demand-
- Operating hours meter for easy scheduling of ordinary maintenance
- Running signals and alarms available for system monitoring
- Electronic microprocessor control panel with LCD display (for BiCompact and Sailor models): *readings produced water salinity / low and high pressure / effective water production / fresh water production since last starting / electric absorption / temperature / starting-meter and hour-meter for easy maintenance programming / failure*
- Electro-mechanical control panel for STDC/SY and SW8: high reliable and resistant to extreme conditions: *readings high salinity of the produced water / high electric power consumption / high or low pressure / oil change (for CAT high pressure pump). Electronic microprocessor control panel with LCD display available on request.*
- Remote controls: the electronic control panel is designed for the link with LCD display panel / on board Personal Computer / 7" LCD touch-screen display / optional remote control by Satellite link, for diagnosis, setting, maintenance and operation
- Complete installation kit, with hoses and fittings
- Low pressure circuit with pipes, flexible hoses and Stainless Steel 316L fittings in alimentary use material for potable water

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
- Multimedia sand filter to reduce the level of suspended solids (turbidity) in incoming feed water
- 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
- Cleaning/flushing system for assuring a longer membranes life.
- Booster system for produced fresh 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 content in the water, to improve taste and removes smell before use
- UV sterilizers, available with flow control device in case of any 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 demand
- Special ATEX plants

Reverse Osmosis Watermakers

SW8 SPECIAL 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!

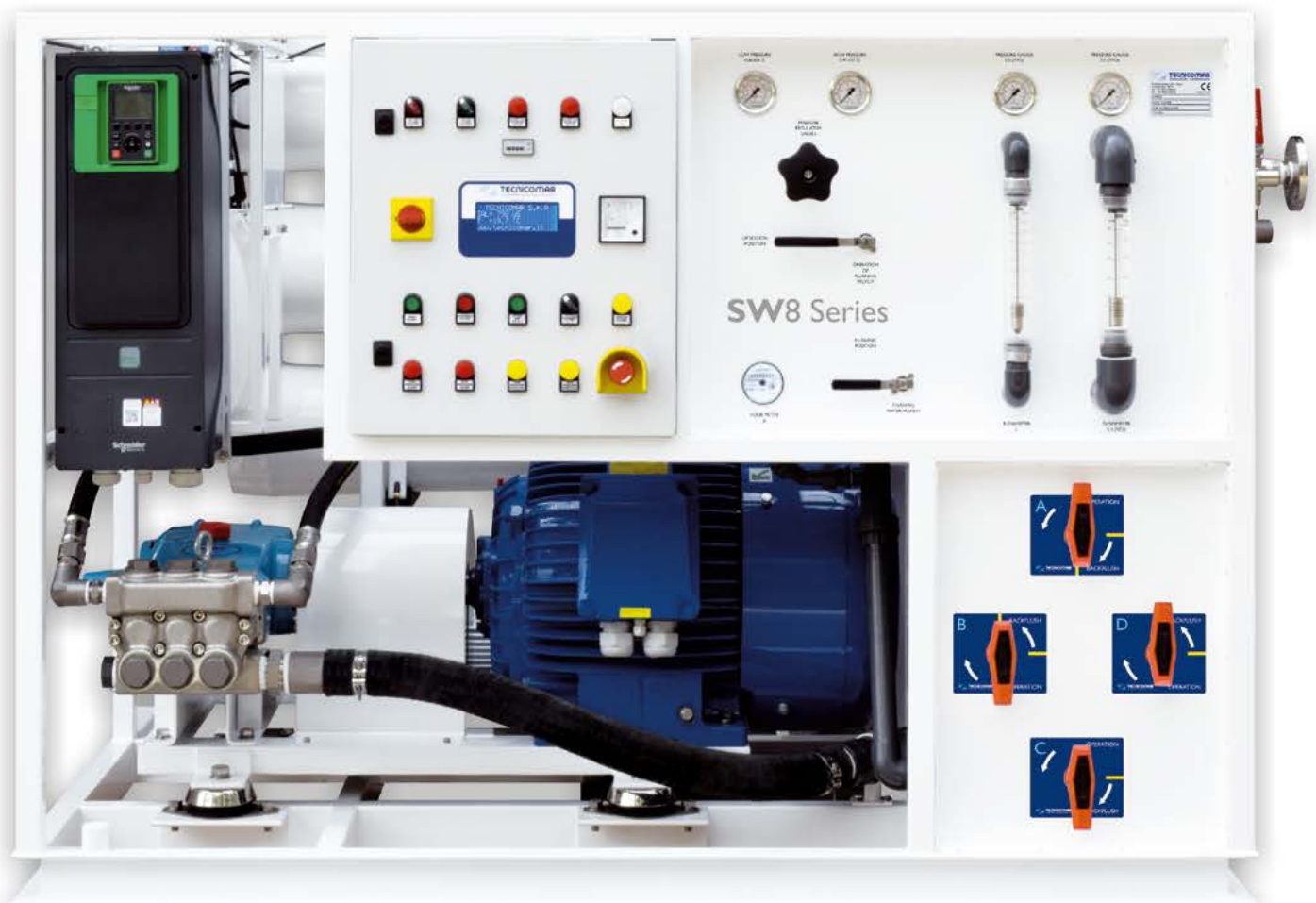
The Tecnicomar SW8 series is designed to produce high quantity of fresh water starting from 1.5 m³/hour. Ideal for offshore platforms, jack-up rigs, bulk carriers and other types of commercial vessels, the SW8 Reverse Osmosis watermakers are made up of high quality components that perfectly fit for marine applications, ensuring high performance in continuous operation even in hard environment conditions.

These systems are equipped with an emergency recovery system which allows a significant decrease of power consumption as well as an increase of system efficiency. The SW8 Reverse Osmosis watermakers also comes complete with an electro-mechanical control panel which gives the maximum reliability of correct operation in any conditions. The ASME approved pressure vessels are made up of reinforced fiberglass.



HIGHER FLOW RATE AVAILABLE ON DEMAND

SW8-50



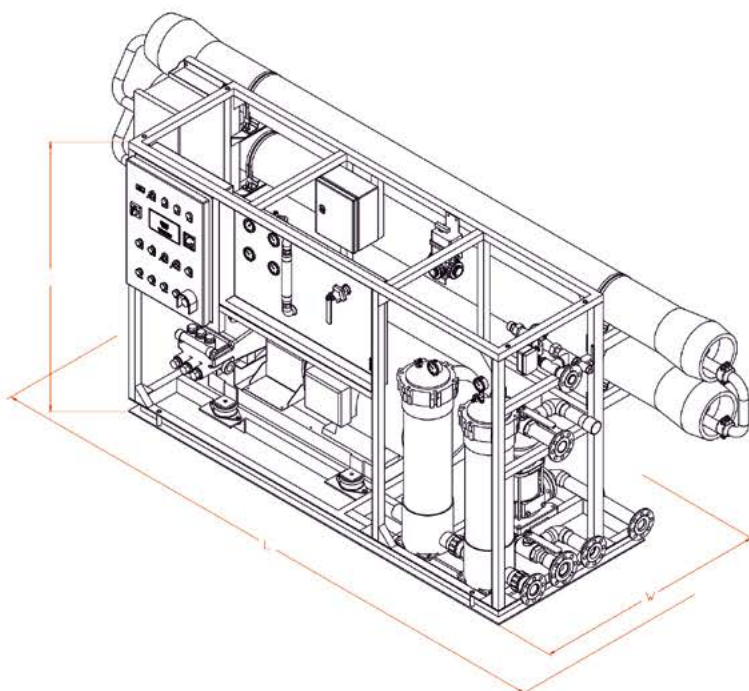


SW8-100

TECHNICAL DATA

Model	Production by hour (litres / gallons)	Production by day (litres / gallons)	Power supply (Volt) / Frequency (Hz) Installed power (kW)	Max dimensions -W x D x H- (mm)	Weight (kg)
SW8-30	1250 / 330	30000 / 7290	400 V AC - 50 Hz 3-phase* - 15 kW	1930 x 1150 x 1360	300
SW8-50	2100 / 555	50400 / 13320	400 V AC - 50 Hz 3-phase* - 18.5 kW	1930 x 1150 x 1360	360
SW8-60	2500 / 660	60000 / 15840	400 V AC - 50 Hz 3-phase* - 18.5 kW	2050 x 1067 x 1443	930
SW8-75	3000 / 792	72000 / 19008	400 V AC - 50 Hz 3-phase* - 22 kW	2050 x 1067 x 1443	1010
SW8-100	4000 / 1056	96000 / 25344	400 V AC - 50 Hz 3-phase* - 30 kW	4000 x 950 x 1380	1070
SW8-150	6000 / 1585	144000 / 39474	400 V AC - 50 Hz 3-phase* - 37 kW	4930 x 950 x 1380	1460
SW8-250	10000 / 2642	240000 / 63408	400 V AC - 50 Hz 3-phase* - 55 kW	5950 x 950 x 1380	2000
SW8-∞	PLANNED ON DEMAND - UNLIMITED PRODUCTION				

* other voltages and frequencies available on demand



Reverse Osmosis Watermakers

STDC SY SPECIAL 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 STDC SY are an automatic Reverse Osmosis systems ideal for the production of high quantities of fresh water from sea water.

The STDC SY Special Green series is highly reliable for a non-stop continuous operation and designed to work under extreme conditions like high and low temperatures and vibrations.

The watermakers can be customized for specific

exigencies and are assembled on a solid stainless steel frame. Tecnicomar STDC SY fresh water generators are equipped with an electro-mechanical control panel with display that allows to manage all functions in an intuitive mode.

They can run in manual mode in case of temporary failure. The ASME approved pressure vessels are made of reinforced fiberglass.



STDC SY 6000

TECHNICAL DATA

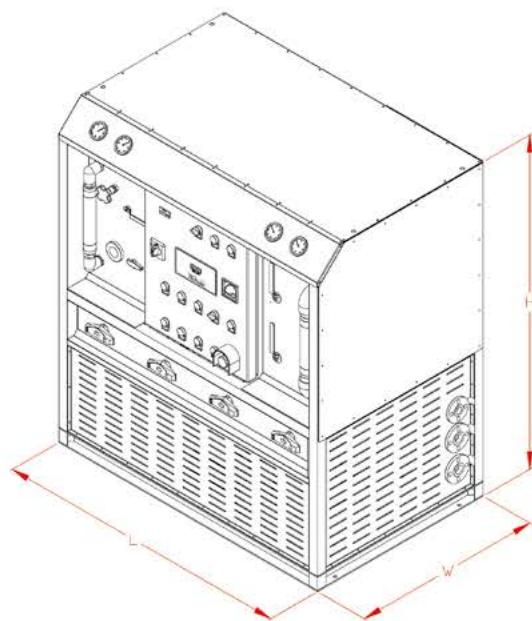
Model	Production by hour (litres / gallons)	Production by day (litres / gallons)	Power supply (Volt) / Frequency (Hz) Installed power (kW)	Max dimensions -L x W x H- (mm)	Weight (kg)
STDC SY 3000	600 / 158	14400 / 3805	400 V AC - 50 Hz 3-phase* - 5.5 kW	1250 x 800 x 1520	425
STDC SY 4500	800 / 211	19200 / 5073	400 V AC - 50 Hz 3-phase* - 5.5 kW	1250 x 800 x 1520	445
STDC SY 6000	1000 / 264	24000 / 6340	400 V AC - 50 Hz 3-phase* - 7.5 kW	1250 x 800 x 1520	465

* other voltages and frequencies available on demand

CONFIGURATION:

Assembled on common frame with the following parts:

- SEAWATER STRAINER
- FEED PUMP
- COARSE BACKWASHABLE FILTER
- CARTRIDGE PREFILTER GROUP
- ANTISCALANT DOSING SYSTEM
- HIGH PRESSURE MOTOR-PUMP SET
- PRESSURE VESSEL GROUP
- CONTROL PANEL WITH CONTROL BOX
- ACTIVATED CARBON POST-FILTER
- CLEANING/FLUSHING SYSTEM



Reverse Osmosis Watermakers

TECNICOMAR BICOMPACT

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!

BiCompact is Tecnicomar's duplex watermaker range combining two independent systems on a common stainless steel frame: 2x250 liters/hour (2x1,581 gpd) or 2x350 liters/hour (2x2,213 gpd).

This space & energy saving solution is the first choice when redundancy is needed or the quantity of fresh water is doubling occasionally, on weekends or during high season as the systems can work simultaneously or autonomously. Each unit is fully automatic, but can be switched to manual mode if necessary.

The high reliability and flexibility make it suitable

both for military and research vessels as well as for Superyachts.

The electronic control panel allows a simple control of all operating functions from the main display or via remote control (optional). The light and resistant carbon fibre vessels (TÜV certified) are installed on the top on an overturnable system for easy maintenance and, in case of particular space restraints, they can be removed easily and installed separately.

Ready to be fitted with an automatic membrane flushing system.



DUPLEX - HIGH PRODUCTION




BICOMPACT S6/40

**VERY EASY TO USE:
FULLY AUTOMATIC
LOW NOISE OPERATION
ONE-TOUCH TECHNOLOGY**


Overturnable carbon fibre vessels pack


Accessories



Optional 7" LCD touch-screen display



Optional Automatic membranes flushing filter



Optional Re-hardening filter TCC-SL10



Optional Carbon filter TCA-SL10



Optional CDMAR-2 Remote Control

MODBUS protocol available

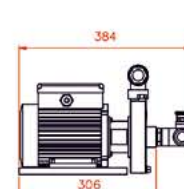
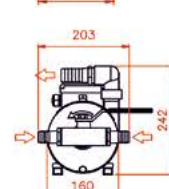
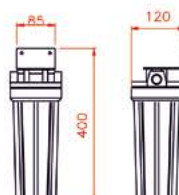
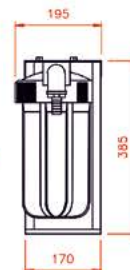
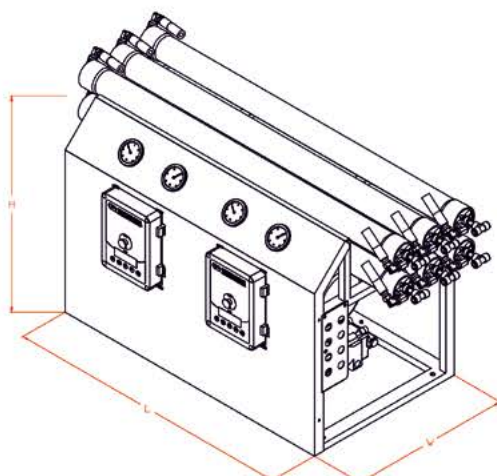


Optional Remote Control by on-board PC

TECHNICAL DATA

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)
BICOMPACT S 4/40	500 / 131	12000 / 3162	400 V AC - 50 Hz three-phase* - 2 x 4 kW	1190 x 525 x 590	124
BICOMPACT S 6/40	700 / 184	16800 / 4426	400 V AC - 50 Hz three-phase* - 2 x 4 kW	1190 x 525 x 590	130

* other voltages and frequencies available on demand



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 & TÜV 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
- MODULAR CONFIGURATION AVAILABLE



SAILOR COMPACT 3/40 WITH ALUMINIUM FRAME



BOOSTER PUMP

TECHNICAL DATA

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)
SAILOR SPECIAL 2/21	100 / 28	2400 / 634	400V AC - 50 Hz 3-phase - 2.2 kW	750 x 520 x 360	52
SAILOR SPECIAL 3/21	160 / 42	3840 / 1024	400V AC - 50 Hz 3-phase - 2.2 kW	750 x 520 x 360	55
SAILOR SPECIAL 2/40	250 / 66	6000 / 1585	400V AC - 50 Hz 3-phase - 4 kW	1170 x 520 x 360	64
SAILOR SPECIAL 3/40	350 / 92	8400 / 2219	400V AC - 50 Hz 3-phase - 4 kW	1170 x 520 x 360	68
SAILOR SPECIAL 2/44	600 / 158	14400 / 3794	400V AC - 50 Hz 3-phase - 5.5 kW	1270 x 600 x 440	95
SAILOR SPECIAL 3/44	800 / 210	19200 / 5059	400V 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



Optional Automatic membranes flushing filter



Optional Re-hardening filter TCC-SL10



Optional Carbon filter TCA-SL10

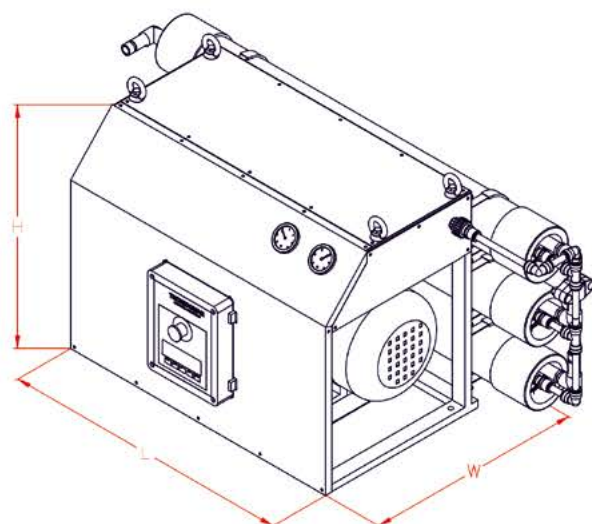


Optional CDMAR-2 Remote Control

MODBUS protocol available



Optional Remote Control by on-board PC



Reverse Osmosis Watermakers

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 and

the TÜV certified corrosion free and lightweight carbon fiber pressure vessels.

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

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

LIGHTWEIGHT FRAME **NEW!**



SAILOR COMPACT 600
WITH ALUMINIUM FRAME

BOOSTER PUMP

- EASY USE
- SEMI-AUTOMATIC
- LOW NOISE OPERATION
- MODULAR CONFIGURATION AVAILABLE



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 -L x W x H- (mm)	Weight (kg)
SAILOR COMPACT 400	70 / 18.5	1680 / 443	230 V AC - 50 Hz* - 1.1 kW	750 x 520 x 360	52
SAILOR COMPACT 600	100 / 26.4	2400 / 634	230 V AC - 50 Hz* - 1.1 kW	750 x 520 x 360	55
SAILOR COMPACT 1000	160 / 42.2	3840 / 1014	230 V AC - 50 Hz* - 2.2 kW	1170 x 520 x 360	64
SAILOR COMPACT 1500	220 / 58.1	5280 / 1395	230 V AC - 50 Hz* - 2.2 kW	1170 x 520 x 360	68

other voltages and frequencies available on demand

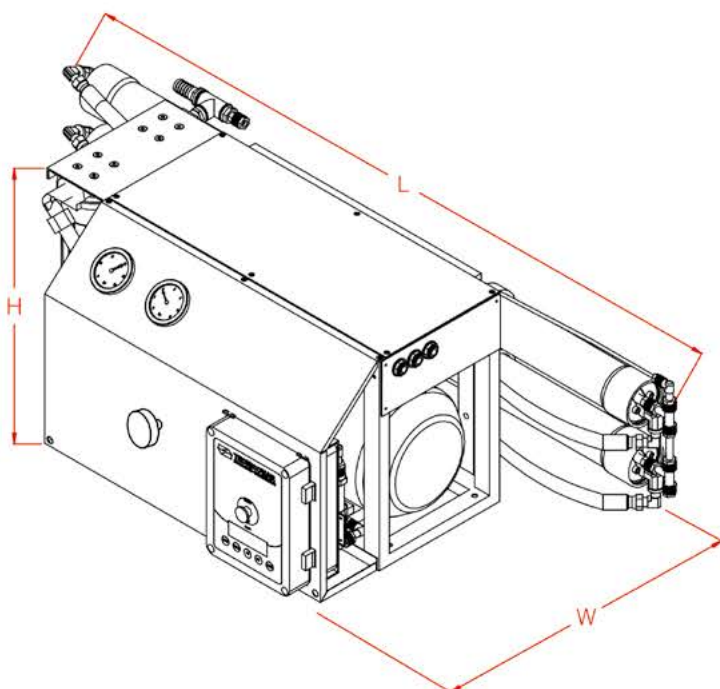
Accessories



Optional automatic
membranes
flushing filter

Optional
Re-hardening filter
TCC-SL10

Optional
Carbon filter
TCA-SL10



ESSENTIAL

The Essential is a watermaker with production of 100 or 160 litres per hour, ideal for small boats. It is suitable for everyone who can do without electronic and remote controls and just wants a small and reliable system producing safe water. An automatic membrane flushing system is available as an option. The watermaker is mounted in a powder coated solid light alloy frame (compact version) or ready for modular installation in tight spaces (Essential Slim configuration). The compact version allows to install the membrane pack separately. Available for different electrical voltages and frequencies, on demand.



ESSENTIAL 400



Slim Configuration



Accessories

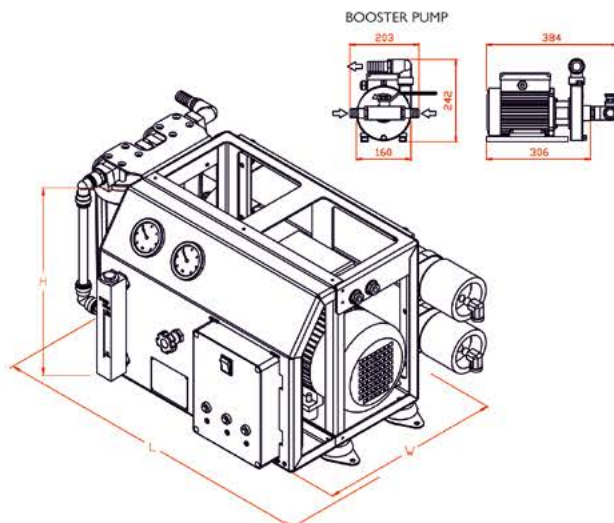


TECHNICAL DATA

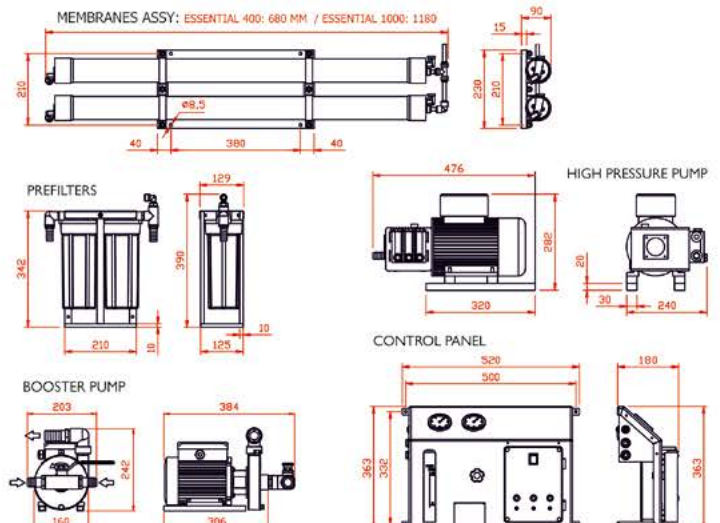
Model	Production per hour (litres / gallons)	Production per day (litres / gallons)	Voltage (Volt) / Frequency (Hz) Installed Power (kW)	Max Dimensions -L x W x H- (mm)	Weight (Kg)
ESSENTIAL 400	100 / 26.6	2400 / 639	230 V AC - 50 Hz* - 1.8 kW	680 x 406 x 260	43
ESSENTIAL 1000	160 / 42	3840 / 1014	230 V AC - 50 Hz* - 1.8 kW	1180 x 406 x 260	49

* single phase - other voltages and frequencies available on demand

MODULAR CONFIGURATION



SLIM CONFIGURATION



Reverse Osmosis Watermakers

OASI

The small Oasi Reverse Osmosis desalination plants are the units of choice when power or space is an issue. They can be run from a yacht's batteries, solar or wind power without the need for a generator and are popular on smaller sailing and motor boats that want to stay free from the constraints and expenses of marinas.

These new-generation watermakers use a low-pressure pump to raise water pressure to only about 15 bar. The high pressure necessary to activate the reverse osmosis process (55-60 bar) is reached through an hydraulic pressure intensifier. The system allows energy savings of up to 80% compared to conventional desalination plants as it requires only the initial energy of the low pressure pump to bring the water into the watermaker.

The OASI excels for hands-on simplicity and high quality components like the stainless steel base, clamps and high pressure fittings, FDA compliant membranes and filters and TÜV certified lightweight carbon fiber pressure vessels. On request, the OASI can be supplied with automatic membrane flushing, electronic control box and a remote control for major comfort as well as with an activated charcoal filter to improve the taste of the produced water.



STANDARD FEATURES:

- Low electric power consumption: 4.8 W/liter (average)
- Automatic pressure regulation
- High and low pressure gauges
- Available voltages: 12 / 24 V dc
- Easy installation, control and maintenance



CONFIGURATION:

- 1 - SEA COCK VALVE
- 2 - CHECK VALVE
- 3 - SEA STRAINER
- 4 - 12-24 V dc MOTOR PUMP
- 5 - PREFILTER 5 µ
- 6 - OASI PUMP
- 7 - REVERSE OSMOSIS MEMBRANE PACK
- 8 - PRODUCED WATER
- 9 - BRINE WATER
- 10 - CONTROL PANEL



ACCESSORIES:

Micro-processor control panel



CDMAR-2 remote control
7" LCD touch-screen remote control



Automatic membranes flushing system



TECHNICAL DATA

Model	Production per hour (litres / gallons)	Production per day (litres / gallons)	Installed Power (kW)	Voltage (Volt)	Current drain (Amps)	Weight (kg)
OASI 30	35 / 9.2	840 / 220	0.2	12 / 24 V DC	14 (12V) / 8 (24V)	26
OASI 60	60 / 15.8	1440 / 379	0.55	12 / 24 V DC	38 (12V) / 20 (24V)	37



Water Treatment Systems

Tecnicomar designs and manufactures a wide range of products for the pre and post-treatment of the water and for the maintenance of the plants. Every accessory is designed to work in perfect harmony with each watermaker, with the same quality and reliability, even in extreme conditions of work, whether standard or customized. In addition to the pre and post-filtration products, the Technical Department develops management systems and electronic controls for the automation and the remote control of Tecnicomar systems for water treatment.

Pre-treatment

SEAWATER STRAINER
to prevent clogging of sand
filters and prefilters



**MULTIMEDIA
SAND FILTER**
to reduce the level
of suspended solids
(turbidity) in
incoming feed water



**TFD SEMI-
AUTOMATIC
HELICOIDAL
FLOW FILTER**
to preserve
prefilters cartridges
on the R. O. system
from marine debris

OIL-WATER SEPARATOR
for sediment filtration and to
reduce dispersed and dissolved
oil from water



**A316L STAINLESS STEEL
HYDRO-CYCLONE
FILTER**
removes large particles
from the feed water
extending the life of the
prefilters and R. O.
membranes



**ANTI-SCALANT DOSING
SYSTEMS**
to prevent the formation of scale on
the membrane surfaces and
membrane fouling



Water Treatment Systems

Post-treatment



CHLORINE DOSING SYSTEM
for disinfection of fresh water by chlorine dosage



A316L STAINLESS STEEL U.V. STERILIZERS
to kill bacteria, virus, pathogenic microorganism and prevent their further reproduction



A316L STAINLESS STEEL FILTER WITH BACKWASH AND BY-PASS
for mineralizing filters and carbon (de-chlorating) filters



SILVER ION STERILIZER
for the disinfection of drinking water by dosing silver ions

REVERSE OSMOSIS DEMINERALIZER PLANTS
reduce drastically dissolved solids on fresh water to obtain technical water



ULTRA-FILTRATION WATER PURIFIERS
to get bacteria-free potable water with low content of salt from quay and river water



WATER SOFTENERS
to eliminate completely or partially calcium and magnesium to reduce water hardness

CHILLERS AND CARBONATORS
for fresh osmotized water



REVERSE OSMOSIS WATER PURIFIERS
for fresh and technical water production



Maintenance



AUTOMATIC MEMBRANES CLEANING AND FLUSHING SYSTEMS
assures a longer membranes life by a button on control panel



MAINTENANCE KIT: MEMBRANES WASHING AND STORAGE KIT
prolong the watermaker life, by cleaning and replacing components

DOSING SYSTEMS

COMPACT AUTO-PROPORTIONAL DOSING SYSTEM:

Programmable membrane dosing pump, microprocessor controlled for dosing of chlorine and silver ions in manual mode / proportional injection multiplier (1xn) / proportional injection multiplier with memory (1xn-M) / proportional injection divisor (1:n). Complete with 10 / 20 / 30 / 60 / 100 / 230 / 315 / 500 and 1000 litres polyethylene tank, dosing pump and level probe to stop the dosing pump in case of lacking chemical.

Easy connection to an injection counter and to a float gauge (optional).



FRESH WATER SILVER ION STERILIZER

Dosing unit that can sterilize up to 20 m³/h by mean of Ag⁺ ion generated by the water flow passage. It is equipped by a detachable instrument panel and twin silver plates double the operating life time and automatic batch operation for bunkered water.

Continuous polarity change prevents clogging. The dosing unit is available with dual mode inputs for two fresh water generators. Reduced maintenance for the electrode replacement.



Water Purifiers

ULTRAPUR

The Tecnicomar UltraPUR water purifier is designed to get bacteria-free potable water with low content of salt from quay and river water.

Low electrical power consumption, easy to move, the water purifier is mounted in a stainless steel frame with wheels. UltraPUR is equipped with sediment and carbon prefiltration to remove impurity and chlorine from the water, with high and low pressure control, flowmeter, pressure regulator, pump for osmotic counterbalance and chemical resistant semipermeable membranes.

The display of the control panel shows the quality of the produced water in terms of conductivity.



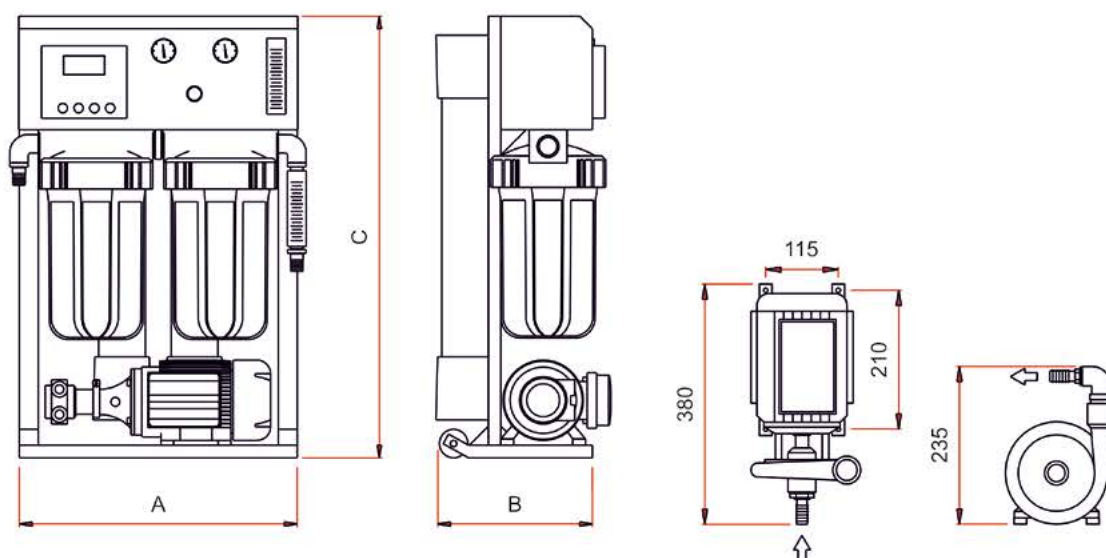
STANDARD BOOSTER PUMP



TECHNICAL DATA

Model	Production per hour (litres / gallons)	Production per day (litres / gallons)	Installed Power (kW)	Power supply (Volt / frequency)	Max dimensions -A x B x C- (mm)	Weight (kg)
UltraPUR 800-2	120 / 31	2,280 / 760	0.67	230V AC - 50 Hz*	500 x 280 x 700	28
UltraPUR 1200-3	180 / 48	4,320 / 1,142	0.67	230V AC - 50 Hz*	500 x 280 x 700	32
UltraPUR 2000-2	350 / 92	8,400 / 2,119	1.3	230V AC - 50 Hz*	500 x 280 x 1140	37
UltraPUR 3000-3	480 / 126	11,520 / 3,043	1.3	230V AC - 50 Hz*	500 x 280 x 1140	40
UltraPUR 5000-2	750 / 198	18,000 / 4,755	1.65	230V AC - 50 Hz*	670 x 330 x 1200	44
UltraPUR 7500-3	1,150 / 300	27,600 / 7,291	1.65	230V AC - 50 Hz*	670 x 330 x 1200	48

*single-phase - other voltages and frequencies on demand



Semi-automatic Swirl-effect Filter

TFD FILTERS

The Tecnicomar semi-automatic TFD filter represents an exclusive water filtration system based on a swirl effect. That allows a drastic reduction in the number of washes, saving water, energy and labor costs. The swirl is obtained by means of a propeller at the filter inlet. The propeller creates a twisting motion to the incoming water flow. The suspended particles against the walls centrifuging away from the filtering element. This reduces the frequency of washing. Standard automatic backflush.

APPLICATIONS:

- Used for filtration of all types of water
- Application in marine sector, industrial processes, agriculture, landscape gardening, etc.

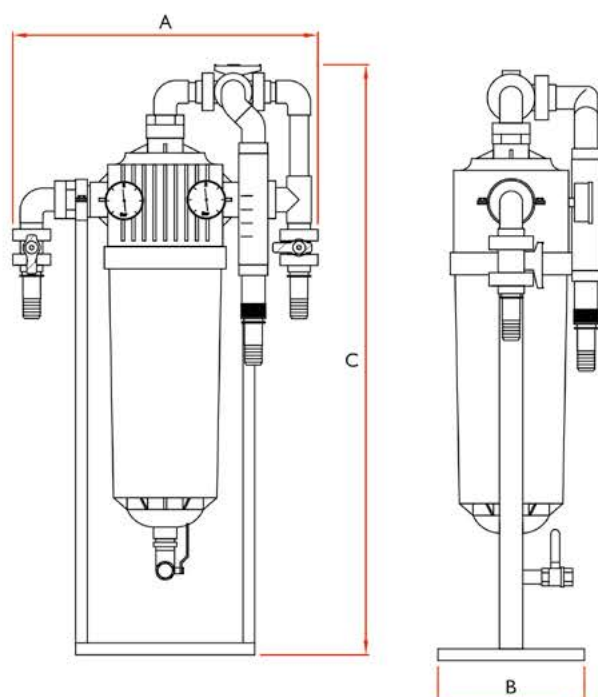
BENEFITS:

- FILTRATION SYSTEM WITH A HELICAL FLOW
- MODULAR, VERSATILE AND EASY MAINTAINANCE
- MADE OF REINFORCED NYLON WITH FIBERGLASS
- SAVES WATER AND ENERGY
- HIGH RESISTANCE TO CLOGGING
- EASY AND QUICK CONNECTION
- HYDROCYCLONE EFFECT

TECHNICAL DATA TFD SEMI-AUTOMATIC

Maximum Flow (m3/hour)	IN / OUT Backwash	DRAIN	Dimensions (cm)			Weight (kg)
			A	B	C	
2.2	1"	1/2"	52	25	89	14
3.6	1"	1/2"	52	25	89	14
6	1" 1/4"	1/2"	52	25	89	14
9	1" 1/2"	1/2"	52	25	89	14
12	2"	1/2"	52	25	89	14

Available with 20 μ , 50 μ & 100 μ filtration



Water Treatment

BFS FILTERS

BFS FILTERS FOR EMBARKING & DELIVERING OF WATER: suitable for filtration of fresh and sea water in marine application and industry. Mounted on stainless steel stand or with mounting brackets.

- **BFS 1:** one filter housing with single or double filtration cartridge 10" or 20"
- **BFS 2:** two filter housings with filtration cartridges 10" or 20"
- **BFS 3:** three filter housings with double filtration cartridges 10" or 20"

For the BFS 2 and BFS 3 we suggest to combine a single or double filtration cartridge (BIG BLUE) and one with activated carbon. The BFS series can be used also as oil/water separator with coalescent cartridges. The flow rate may vary depending on the feed pressure and the cartridge type.



BFS 1 20"



BFS 3 20"



BFS 2 10"



BFS 2 20"



BFS 2 10"



R30-20"-BB:
30 µm
filtration



DGD-5005-20"-BB:
2-stages filtration,
50 & 5 µm filtration



EPM-20"-BB:
activated carbon,
10 µm filtration



CP5-20"-BB:
5 µm
filtration



BC-10" & 20"-BB:
oil-water
separator



R30-10":
30 µm
filtration



P5-10":
5 µm
filtration

TECHNICAL DATA

Model	Max flow rate per hour (litres/gallons)	Fittings (inch)	Dimensions (mm) -L x W x H-	Weight (kg)
BFS 1 10"	9,000 / 2,377	1/4" - 3/8" - 1/2" - 3/4"	130 x 150 x 370	4
BFS 2 10"	9,000 / 2,377	1/4" - 3/8" - 1/2" - 3/4"	280 x 150 x 370	6
BFS 3 10"	9,000 / 2,377	1/4" - 3/8" - 1/2" - 3/4"	420 x 150 x 370	8
BFS 1 10"-BB	16,000 / 4,227	1" - 1 1/2"	190 x 220 x 400	5
BFS 2 10"-BB	16,000 / 4,227	1" - 1 1/2"	380 x 220 x 400	8
BFS 3 10"-BB	16,000 / 4,227	1" - 1 1/2"	580 x 220 x 400	12
BFS 1 20"-BB	16,000 / 4,227	1" - 1 1/2"	190 x 220 x 670	7
BFS 2 20"-BB	16,000 / 4,227	1" - 1 1/2"	380 x 220 x 670	10
BFS 3 20"-BB	16,000 / 4,227	1" - 1 1/2"	580 x 220 x 670	14

FILTER CARTRIDGES MADE IN U.S.A.

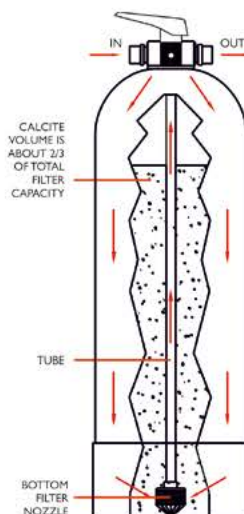


Filtration

TCA CARBON FILTER

Tecnicomar TCA activated carbon filters are effectively removing contaminants and impurities from water, such as chlorine, volatile organic compounds (VOCs) and sediments. Chlorine is irritating skin and the respiratory system: installing this de-chlorinating filter, you will immediately notice the difference when taking a shower or preparing your coffee.

Assuring regular backwashing, the filtered water is safe, odor free and has an improved taste. If the water used for backwashing does not contain any chlorine, it is recommended to install a UV Sterilizer after the Carbon Filter to perfectly disinfect the water.



CARBON & CALCITE FILTERS IN REINFORCED FIBERGLASS



CARBON FILTER - TECHNICAL DATA

Model	Treated Water (liters/gallons per hour)	Treated Water (liters/gallons per day)	Max dimensions (mm)
TCA1	1,000 / 264	24,000 / 6,332	diameter 220 x 948
TCA2	1,500 / 395	4,320 / 9,498	diameter 310 x 1,230
TCA3	3,000 / 791	72,000 / 18,997	diameter 380 x 1,308

OTHER MODELS AVAILABLE ON REQUEST



CARBON & CALCITE FILTERS IN A316L STAINLESS STEEL

- Tecnicomar uses only first quality activated carbon:
- EN12915 Compliant
 - KIWA ATA Certificated
 - United Kingdom Drinking Water Inspectorate Approved



TCC CALCITE FILTER

Tecnicomar TCC calcite filters neutralize the pH value to a non-corrosive equilibrium, making it safe for the human organism. While passing through the filter, the water is enriched with Magnesium carbonate and Calcium.

This re-hardening procedure prevents the potential leaching of copper, lead and other metals typically found in plumbing systems. The calcite bed needs to be periodically replenished as the minerals are depleted.

CALCITE FILTER - TECHNICAL DATA

Model	Treated Water (liters/gallons per hour)	Treated Water (liters/gallons per day)	Max dimensions (mm)
TCC1	1,000 / 264	24,000 / 6,332	diameter 217 x 948
TCC2	1,500 / 395	4,320 / 9,498	diameter 260 x 980
TCC3	3,000 / 791	72,000 / 18,997	diameter 390 x 1,308

OTHER MODELS AVAILABLE ON REQUEST

WATER SOFTENERS with Chlorine Generator

The Tecnicomar water softeners are ideal for nautical applications in order to eliminate completely or partially calcium from the tap water to reduce hardness, cause of scaling in pipes and appliances.

With the passage of water through a bed of synthetic resins, calcium and magnesium salts are retained. The resin regeneration is done automatically by cyclic flushing-scheduled either after a set period of time or volume- with a saturated salt solution contained inside a reservoir connected to the softener. The Tecnicomar automatic water softeners are available in a double-body (with a separated salt container), all-included case and portable models.

STANDARD EQUIPMENT:

- REINFORCED FIBERGLASS CASE
- 5-CYCLES VOLUME FLECK VALVE
- MANUAL BY-PASS VALVE FOR WATER SOFTENER EXCLUSION
- AUTOMATIC REGENERATION AT A VOLUME PRE-SET
- 1" F GAS BRASS FITTINGS
- MANUAL BY-PASS DEVICE TO SET THE DESIRED DEGREE OF HARDNESS
- SELF-DISINFECTION SYSTEM TO PURIFY THE RESINS AT EVERY FLUSHING CYCLE
- LOW SALT LEVEL INDICATOR
- SALT TANK



SPF 10 C SEMI-AUTOMATIC



AD/APX



AD/APX



TECHNICAL DATA

Model	MAX FLOW (m³/hour)	CYCLIC CAPACITY (m³/F)	RESIN CAPACITY (litres)	SALT CONSUMPTION PER CYCLE (kg)	TANK DIMENSIONS (diam.xH - mm)	SALT CONTAINER DIMENSIONS (LxFxH - mm)	SALT CAPACITY (litres)	CABINET DIMENSIONS (LxWxH - mm)	TOTAL DIMENSIONS (LxWxH - mm)	IN/OUT (M GAS) (")	TOTAL WEIGHT (kg)
SPF SOFTENERS WITH MANUAL REGENERATION											
SPF 7 -HORIZONTAL-	0.7	40	7	1.3	210 x 480	120 x 120 x 300	3.7	-	690x330x330	1/2	15
SPF 7 -VERTICAL-	0.7	40	7	1.3	210 x 480	120 x 120 x 300	3.7	-	325x325x490	1/2	15
SPF 10 -HORIZONTAL-	1	60	10	1.8	181 x 645	120 x 120 x 300	3.7	-	850x310x310	1/2	18
SPF 10 -VERTICAL-	1	60	10	1.8	181 x 645	120 x 120 x 300	3.7	-	295x295x650	1/2	18
SPF 10 C SEMI-AUTOMATIC	1	60	10	1.8	181 x 646	120 x 120 x 300	included	320x520x740	320x520x740	3/4	91
SPF 16 -VERTICAL-	1.6	90	16	2.9	181 x 910	120 x 120 x 300	3.7	-	295x295x920	1/2	26
SPF 28 C SEMI-AUTOMATIC	2.8	160	28	5	260 x 910	120 x 120 x 300	included	320x520x1160	320x520x1160	3/4	136

Model	MAX FLOW (m³/hour)	CYCLIC CAPACITY (m³/F)	RESIN CAPACITY (litres)	SALT CONSUMPTION PER CYCLE (kg)	TANK DIMENSIONS (diam.xH - mm)	SALT CONTAINER DIMENSIONS (LxFxH - mm)	SALT CAPACITY (litres)	CABINET DIMENSIONS (LxWxH - mm)	TOTAL DIMENSIONS (LxWxH - mm)	IN/OUT (M GAS) (")	TOTAL WEIGHT (kg)
DUPLEX SOFTENERS WITH CHLORINE GENERATOR AND VOLUME CONTROLLED REGENERATION											
AD/APX 15/2	3	180	30	5.4	181x910	340x900	75	-	480x215x1090	1	130
AD/APX 30/2	6	360	60	10.8	260x910	460x760	100	-	620x300x1090	1	200
AD/APX 50/2	6	600	100	18	310x325	460x760	100	-	720x350x1500	1	245
AD/APX 60/2	6	720	120	21.6	310x1100	540x1010	200	-	720x350x1280	1	385
AD/APX 75/2	11	900	150	27	360x1185	540x1010	200	-	820x400x1370	1	430
AD/APX 100/2	11	1200	200	36	360x1690	840x1010	400	-	820x400x1880	1	705
AD/APX 150/2	11	1800	300	54	410x1665	840x1010	400	-	900x450x1850	1 1/2	830
AD/APX 200/2	31	2400	400	72	475x1900	1000x1370	800	-	1050x515x2220	1 1/2	1385
AD/APX 300/2	31	3600	600	108	610x1880	1160x1540	1000	-	1330x660x2200	2	1560

UV ANTI-BACTERIA SYSTEMS

The Tecnicomar U.V. anti-bacteria systems can eliminate 99% bacteria and viruses from the fresh water and get bacteria free water without adding chemicals like chlorine. The UV anti-bacteria systems are equipped with a sediment prefilter to increase efficiency of the UV rays, and an activated carbon filter to remove bad smell and taste from the water. Can be installed on the produced fresh water outlet of the watermaker or after the pressure tank on the water distribution pipeline.

The lifetime high intensity anti-bacteria UV lamp is estimated in 9,000 hours of continuous service.

UVB2-SD/CBC



UV1-CBC



UV20-3-SD/EPM



UVBB-2/SD 20" X 2



FILTER CARTRIDGES MADE IN USA



TECHNICAL DATA

Model	Litres/min.	Litres/hour	Filtration type	Absorption (Watt)	Power supply (Voltage / Frequency)	In/Out (inch)	Dimensions (mm) -L x W x H-
SERIE UV (4 l/min. - max. pressure 4 bar)							
UV1-CBC	4	240	activated carbon 0.5 µm	10 W	230 Volt AC / 50 Hz*	1/2	120x120x400
UV1-EPM	4	240	activated carbon 10 µm	10 W	230 Volt AC / 50 Hz*	1/2	120x120x400
UV2-SD/CBC	4	240	PP 5 µm + activated carbon 0.5 µm	10 W	230 Volt AC / 50 Hz*	1/2	240x120x400
UV2-SD/EPM	4	240	activated carbon 10 µm	10 W	230 Volt AC / 50 Hz*	1/2	240x120x400
SERIE B (8 l/min. - max. pressure 4 bar)							
UVB1-CBC	8	480	activated carbon 0.5 µm	10 W	230 Volt AC / 50 Hz*	3/4	130x150x400
UVB1-EPM	8	480	activated carbon 10 µm	10 W	230 Volt AC / 50 Hz*	3/4	130x150x400
UVB2-SD/CBC	8	480	PP 5 µm + activated carbon 0.5 µm	10 W	230 Volt AC / 50 Hz*	3/4	280x150x400
UVB2-SD/EPM	8	480	activated carbon 10 µm	10 W	230 Volt AC / 50 Hz*	3/4	280x150x400
SERIE 20 (38 l/min. - max. pressure 4 bar)							
UV20-I	38	2,280		18 W	230 Volt AC / 50 Hz*	3/4	280x160x630
UV20-2/SD	38	2,280	PP 50/5 µm	18 W	230 Volt AC / 50 Hz*	3/4	280x160x630
UV20-2/EPM	38	2,280	activated carbon 10 µm	18 W	230 Volt AC / 50 Hz*	3/4	280x160x630
UV20-3/SD/EPM	38	2,280	PP 50/5 µm + activated carbon 10 µm	18 W	230 Volt AC / 50 Hz*	3/4	420x160x630
SERIE BIG BLUE (57-114 l/min. - max. pressure 6 bar)							
UVBB-I	57	3,420		18 W	230 Volt AC / 50 Hz*	1 1/2	200x240x760
UVBB-2/SD 20"	57	3,420	PP 50/5 µm	18 W	230 Volt AC / 50 Hz*	1 1/2	640x240x760
UVBB-2/SD 20" X 2	57+57	6,800	PP 50/5 µm	18 W	230 Volt AC / 50 Hz*	1 1/2	640x480x760
UVBB-2/EPM	57	3,420	activated carbon 10 µm	18 W	230 Volt AC / 50 Hz*	1 1/2	380x210x720
UVBB-3/SD/EPM	57	3,420	PP 50/5 µm + activated carbon 10 µm	18 W	230 Volt AC / 50 Hz*	1 1/2	640x240x760

*other voltages and frequencies available on demand

STAINLESS STEEL UV STERILIZERS

The Tecnicomar stainless steel UV systems made in AISI 304L stainless steel (or AISI 316L if required) with high intensity low voltage UV lamp can eliminate 99.9% of bacteria and viruses from the fresh water. Suitable for high rates exigencies, they are usually installed after the pressure tank and can be supplied with a prefiltration system to obtain a better efficiency of the UV radiations. The lifetime high intensity anti-bacteria UV lamp is estimated in 9,000 hours of continuous service.

Suitable for marine, home, commercial and industrial use, they can be power supplied 220/240V a.c. - 50/60 Hz. Also available in polypropilene.



TECHNICAL DATA

Model	Litres/min	Litres/hour	Absorption (Watt)	Power supply (Voltage / frequency)	In/Out (inch)	Dimensions (mm) -L x W x H-	Weight (kg)
TC SYSTEM INOX (Max pressure: 8 bar)							
TC-1000	17	1,000	40	230 VAC / 50 Hz*	3/4"	130 x 160 x h 950	7
TC-2500	40	2,500	40	230 VAC / 50 Hz*	1"	130 x 160 x h 950	9
TC-2500 BB 20"	40	2,500	40	230 VAC / 50 Hz*	1"	130 x 160 x h 950	11
TC-5000	83	5,000	80	230 VAC / 50 Hz*	1"	130 x 160 x h 950	16
TC-5000 BB 20"	76	4,560	80	230 VAC / 50 Hz*	1"	130 x 160 x h 950	18
TC-8000	133	8,000	165	230 VAC / 50 Hz*	1 1/4"	130 x 160 x h 950	17
TC-9000	150	9,000	250	230 VAC / 50 Hz*	DN 40	130 x 160 x h 950	35
TC-13000	217	13,000	500	230 VAC / 50 Hz*	DN 50	130 x 160 x h 950	35

Model	Flow rate	Lamp power	Power supply (Voltage / frequency)	Dimensions (mm) -L x W x H-	Weight (kg)
TC AF SERIES	from 64.3 l/min to 6,433 l/min from 3,860 l/hour to 386,000 l/h	from 55 W to 3,160 W	230 VAC / 50 Hz*	from 330 x 200 x 120 mm to 760 x 760 x 300 mm	from 8 kg to 206 kg

*other models, voltages and frequencies available on demand

Water Treatment

WATER PURIFIERS

AquaPUR is a line of Reverse Osmosis water purifiers with direct fresh water production from 70 to 100 liters/hour. No more bottles of mineral water need to be carried on board. Available in 4 different dimensions, it is contained in a solid stainless steel frame and provides safe water for drinking, washing fruits, vegetables and cooking, directly from the tap. It features a dual filtration system with a 5 micron polypropylene pre-filter and a granular activated carbon pre-filter of 25 microns which guarantee - together with the Reverse Osmosis membrane- the removal of suspended particles such as sand, rust, sediments, chlorine, nitrates, bacteria, viruses, pesticides and any other pollutants that might be dissolved in the water, keeping unchanged the salinity balance and making the water pure from any chemical and bacteriological pollution. AquaPUR is also recommended for ice makers, coffee machines and for the production of beverages. Easy installation, even in tight spaces. Standard kit for installation and oversink tap.



AQUAPUR



AQUAPUR FLAT



AQUAPUR SLIM

AQUAPUR PLUS & CARBONATOR:
FRESH WATER & SPARKLING WATER

Oligomineral water always
available on board!

ACCESSORIES:

- Additional tap for water at room temperature
- Filtration and chlorination system with U.V. sterilizer
- CO₂ gasification system
- Electronic control panel with LCD display for visual monitoring of the water conductivity -optional-

AquaPUR is
equipped with
filtering cartridges
and membranes
MADE IN U.S.A.



CONTROL OF DRINKING WATER CONTAMINANTS WITH AquaPUR

INORGANIC CONTAMINANTS

Sodium	90-95%	Lead	93-98%
Calcium	93-98%	Chlorides	90-95%
Magnesium	93-98%	Bicarbonate	90-95%
Potassium	90-95%	Nitrates	85-90%
Aluminium	93-98%	Fluoride	90-95%
Copper	93-98%	Phosphates	93-98%
Nickel	93-98%	Chromate	90-95%
Zinc	93-98%	Cyanide	90-95%
Strontium	93-98%	Sulfates	93-98%
Cadmium	93-98%	Boron	55-60%
Silver	93-98%	Arsenic +3	70-80%
Mercury	90-95%	Arsenic +5	93-98%
Barium	93-98%	Selenium	93-98%
Chromium	93-98%	Radioactivity	93-98%

ORGANIC CONTAMINANTS AND PARTICLES

Bacteria	>99%	Asbestos	>99%
Protozoan	>99%	Sediments	>99%
Giardia	>99%	Turbidity	>99%

ORGANIC CONTAMINANTS
Organic molecules with molecular
weight >300

>99%

Technical Data

Model	Production by hour (litres)	Production by day (litres)	Power supply (Volt) - Frequency (Hz) Installed power (W)	Max dimensions -W x D x H- (mm)
AquaPUR	100	2,400	230 V AC - 50 Hz - 370 W	330 x 470 x 315
AquaPUR Slim	70	1,680	230 V AC - 50 Hz - 187 W	330 x 405 x 220
AquaPUR Flat	70	1,680	230 V AC - 50 Hz - 150 W	420 x 410 x 95
AquaPUR Plus + Carbonator	70	1,680	230 V AC - 50 Hz - 187 W	245 x 380 x 375

HOUSEHOLD DEVICES
FOR THE TREATMENT OF
DRINKABLE WATER
ACCORDING TO THE
ITALIAN MINISTRY OF
HEALTH (DECREE NO.
443 1990/12/21 th)

REVERSE OSMOSIS CHILLERS

Tecnicomar OsmoFRESH 100 & 200 are a pedestal cooler with a Reverse Osmosis system ideal for ships, communities, company canteens, offices, schools and wherever safe drinking water is needed. They are made of a sturdy plastic-coated galvanized steel and stainless steel for maximum durability and has no storage tank! The Reverse Osmosis system produces 35 or 60 liters/hour of fresh water that is instantly chilled through a cooling coil in less than 3 minutes with a cooling capacity of 450 Kcal/h, with 70% energy saving. A second dispenser provides fresh water at ambient temperature.

OsmoFRESH has got a cooling chamber with silver particles and antibacterial sanitizing properties. Refrigeration is in full compliance with environmental regulations: the gas refrigerant is environmentally friendly HFC 134A with zero ODP (Ozone Depletion Potential). OsmoFRESH 200 has a frontal compartment for optional filters for purification. It is equipped with a special system to operate at ambient temperatures up to 43 °C.

OSMOFRESH 100 PLUS

	OsmoFRESH 100	OsmoFRESH 200
Production (liters/hour)	35	60
Chilled water temperature	10 °C	10 °C
Power supply and absorption	230 V AC - 300 W/hour	
Dimensions (cm)	31 x 31 x 105 cm	35 x 35 x 125 cm

ambient temperature at 27 °C and max 1,000 ppm TDS

CHILLERS + CARBONATORS

Tecnicomar AquaMIX and AquaMIX I (Top & Under versions) is a compact, high performing and automatic system that supplies instant fresh water: chilled, sparkling and at room temperature. Aquamix I Top is the only device that has got a front compartment for housing the front purification filter (optional) and CO2 cylinder, with easy access that allows a simple maintenance by user. It has got quick and simplified connectors for easy oversink installation. The Aquamix I Under model, with the same characteristics, is designed to be installed under the sink. No external water tank! For high production, AquaMIX is the ideal solution on board for your chilled and sparkling fresh water.



AquaMIX & OsmoFRESH are equipped with filtering cartridges and membranes MADE IN U.S.A.

AQUAMIX I TOP

AQUAMIX I UNDER



AQUAMIX UNDER -UNDERSINK-

AQUAMIX TOP

TECHNICAL DATA

	AquaMIX I Top	AquaMIX I Under	AquaMIX (Top & Under versions)
Power supply (voltage / frequency)	230 V AC - 50 Hz	230 V AC - 50 Hz	230 V AC - 50 Hz
Power consumption (Watt / hour)	240 W	110 W	370 W
Type of refrigerant gas	HFC 134A	HFC 134A	HFC 134A
Dimensions (w x d x h - cm) - Weight (Kg)	38 x 24 x 52 - 24 Kg	38.5x 24 x 32.5 - 21 Kg	30 x 38 x 28 - 23 & 17 Kg

COOLING CAPACITY

Liters of cold water per hour at 18 °C	19	19	40
Glasses of cold water of 200 CC per hour	95	95	200

Reverse Osmosis Watermakers

CUSTOMIZED SYSTEMS

Tecnicomar designs and manufactures Reverse Osmosis fresh water generators, Water Treatment Systems and Sewage Treatment Plants, tailor-made according to customer's needs. High flow rate, continuous operation, suitability to hard working environments, customized configurations: all these are the main features of Tecnicomar's equipment.

A team of talented engineers and experienced technicians are at your service anytime to develop the best solutions to comply with your requests.



REFERENCES

The Tecnicomar's Professional Systems are ideal for Naval and Marine applications being designed on purpose to work on the most hard conditions of duty, ever with high production of fresh water and maximum reliability.

Some international outstanding clients among the most important shipyards worldwide using Tecnicomar's Reverse Osmosis Watermakers.



REFERENCES

ALLOY YACHTS

AZIMUT

BALTIC YACHTS

BENETEAU

BENETTI

BHARATI SHIPYARD

BILGIN YACHTS

BOURBON

BRODOSPLIT

CERRI

CHRISTENSEN

CNB

CODECASA

DAMEN

DOMINATOR ILUMEN

EGEYAT

EMIRATES BOATS

ENIMED

FERRETTI

FILIPPETTI YACHTS

FINCANTIERI

GRANDWELD

GULF CRAFT

HINDUSTAN

HORIZON YACHT

HUDSON

INTERMARINE

ISA GROUP

LARSEN & TOUBRO

LIBERTY LINES

MENGIYAY

MONTE CARLO YACHTS

NUMARINE

OCEA

OKA SHIPYARD

PERMARE

PRINCESS YACHTS

RELIANCE DEFENSE

SAN LORENZO

SHOFT

SEA CREST MARINE

SUNSEEKER

ULISSE CANTIERI NAVALI

VITTERS

WEST SEA



REFERENCES

The Tecnicomar's Professional Systems are ideal for Navy, Naval & Oil & Gas applications being designed on purpose to fully comply with electrical, mechanical, shock, noise and vibration standards to fit for all environment.

Some international outstanding clients among the most important companies worldwide using Tecnicomar's equipment:



88 PARSEC - Cruise vessel:
SAILOR C 2000 R. O. Watermaker

ABG - Oceanographic research:
ECOMar 6 STP System

ABU DHABI SHIP BUILDING - Petrolling:
SAILOR SPECIAL 3/40 R. O. Watermaker

ABU QIR PETROLEUM - Jack-up rig:
STDC SY 3000 R. O. Watermaker

AJANG SHIPPING SDN BHD - Cargo ship:
SAILOR MD 2000 R. O. Watermaker

AKRON TRADE & TRANSPORT - Crew vessel:
STDC SY 3000 R. O. Watermaker

ARCHTREST - Scientific vessel:
SAILOR SPECIAL 2/40 Slim R. O. Watermaker

BELFREIGHT - Scientific vessel:
SAILOR SPECIAL 3/40 R. O. Watermaker
ECOMar 16 STP System

BHARATI SHIPYARD - Interceptor boat:
ECOMar 6 STP System

BLUE FERRIES (ITALIAN FERRIES GROUP) -
Passenger ship:
ECOMar 20 STP System

BOURBON OFFSHORE - Multipurpose vessel:
ECOMar 8 STP System

CARONTE&TOURIST - Passenger ship:
ECOMar 50 STP System

CHILEAN NAVY - Antarctic base Punta Arenas:
ECOMar 145 STP System

CMHI MPV OFFSHORE
STDC SY 12000 R. O. Watermaker

COSCO - Havyard 832:
STDC SY 6000 R. O. Watermaker

COSCO (DALIAN) - Jack-up drilling platform:
SW8-60 R. O. Watermaker

COSCO (NANTONG) SHIPYARD CO. LTD - Float
accommodation unit / DP3 pipelay heavy lift - offshore
construction:
SW8-60 & SW8-75 R. O. Watermaker
TCA/7X / TC4AF400T Post-treatment water system

COSCO (NANTONG) DANA PETROLEUM - FPSO
STDC SY 9000 R. O. Watermaker
ECOMar 16 STP System

**CSSC GUANGZHOU HUANGPU SHIPBUILDING
CO., LTD.** - Dive support offshore vessel:
STDC SY 6000 R. O. Watermaker

DAMEN SHIPYARDS - Hardinxveld - Tug vessel:
ECOMar 70 STP System

DAMEN SHIPYARDS - SeaXplorer:
ECOMar 70 STP System

ENIMED - Gela 1 Platform:
ECOMar 70 STP System - ATEX

ENIMED - Perla Platform:
ECOMar 70 STP System - ATEX

ERAM - ESTALEIRO RIO AMAZONAS LTD. - Work
boat / river ferry:
TC 84 R. O. Watermaker

FINCANTIERI S.p.A. DIREZIONE NAVI MILITARI -
Norwegian polar research vessel:
Charcoal paper filter units

FINCANTIERI S.p.A. - Multipurpose Offshore Patrol
Vessels (PPA):
Drink Water Treatment Systems

FLENSBURGER NB765 - Offshore vessel:
ECOMar 120 STP System

FLINTER MANAGEMENT B.V. - Cargo vessel:
ECOMar 8 STP System

GRANDWELD MATAF - Victory & Pride vessel:
ECOMar 8 STP System

GRANDWELD SHIPYARD - Offshore crew boats:
ECOMar 8 STP System

GUANGZHOU SHUNAI SHIPYARDS LTD. -
Commercial vessel:
SAILOR SPECIAL 2/44 R. O. Watermaker

GULF PIPING COMPANY - Landing craft:
STDC SY 6000 R. O. Watermaker

HALUL OFFSHORE - Jack-up RIG:
SW8-100 R. O. Watermaker

HINDUSTAN SHIPYARD LTD - Indian Navy ocean
surveillance ship:
STDC SY 9000 R. O. Watermaker

INTERMARINE S.P.A. - Cacciamine:
APX- 75/2 Automatic Water Softener

INTERMARINE S.P.A. - UNPAV (High-speed multi-
purpose patrol vessels):
ECOMar 70 STP System
Sailor C S 3/21 R. O. Watermaker

JINGLING SHIPYARD - 9000 DWT Cement carrier:
ECOMar 340 STP System

JSC ALMAZ SHIPBUILDING - Patrol vessel / Rescue
boat:
SAILOR SPECIAL 2/44 R. O. Watermaker
ECOMar 16 STP System

LARSEN & TOUBRO LTD - Indian Coast Guard:
Sailor C S 3/44 R. O. Watermaker

LEVINGSTON MIDDLE EAST - Mobile offshore units
& liftboats:
ECOMar 50 STP System

LIBERTY LINES S.P.A. - Ship passenger:
ECOMar 45 STP System

LUMABEDA TOURS LTDA. - Passenger ship:
ECOMar 16 STP System

MERINEQUA SA - Passenger ship:
ECOMar 16 STP System

MICOPERI 30 GL - Barges / Pipe lay crane vessel:
ECOMar 24 STP System
STDC SY 9000 R. O. Watermaker

NEPTUN TOPAZ 1700 - Container ship:
ECOMar 50 STP System

OKA SHIPYARD - Russian Navy - Communication ship:
ECOMar 6 STP System

OUHUA SHIPYARD - Container ship:
ECOMar 145 STP System

P&O FERRIES - Passenger ferry:
ECOMar 120 STP System

PETROFAC JSD 6000 - Deep water derrick lay
vessel:
ECOMar 120 STP System
STDC SY 4500 R. O. Watermaker

PT MUJI LINES - Cruise ship:
STDC SY 12000 R. O. Watermaker

PT. DAYA RADAR UTAMA - 60m fast patrol
boats:
SAILOR C S 2/44 R. O. Watermaker
ECOMar 24 STP System

RELIANCE DEFENCE - Indian Coast Guard:
Sailor C S 3/44 R. O. Watermaker

ROSKAMRYBA - Fishing trawler:
ECOMar 8 STP System

SAIPEM - Kaombo FPSO:
Potable water treatment

SAIPEM - Perro Negro 2 & 3 Offshore platform:
ECOMar 120 STP System

SEA CREST MARINE CO. LTD - Police Patrol -
Aluminium Catamaran Thailand:
Sailor C 600 R. O. Watermaker

SEVSUDOREMONT - Passenger vessel:
ECOMar 24 STP System
SAILOR S 3/40 R. O. Watermaker

SHANNON FERRIES GROUP - River ferry:
ECOMar 16 STP System

SHIPYARD ZVEZDOCHKA, ASTRAKHAN -
Multipurpose vessel:
ECOMar 50 STP System

SHOFT SHIPYARD - Navy ammunition barges:
ECOMar 6 STP System

SOKOLSKAYA SHIPYARD - Communication ship:
ECOMar 24 STP System

SRETENSKIY SHIPYARD - Cargo ship:
ECOMar 16 STP System

THE CHINA NAVIGATION - MPV offshore:
ECOMar 16 & ECOMar 50 STP System

UAE NAVY - Petrolling:
SAILOR SPECIAL 3/44 R. O. Watermaker

WEST SEA SHIPYARD - C012 River Vessel -
Douro Azul:
TCB 345 Potable water treatment

YUGMORGEOLOGIA - Scientific vessel:
ECOMar 6 STP System

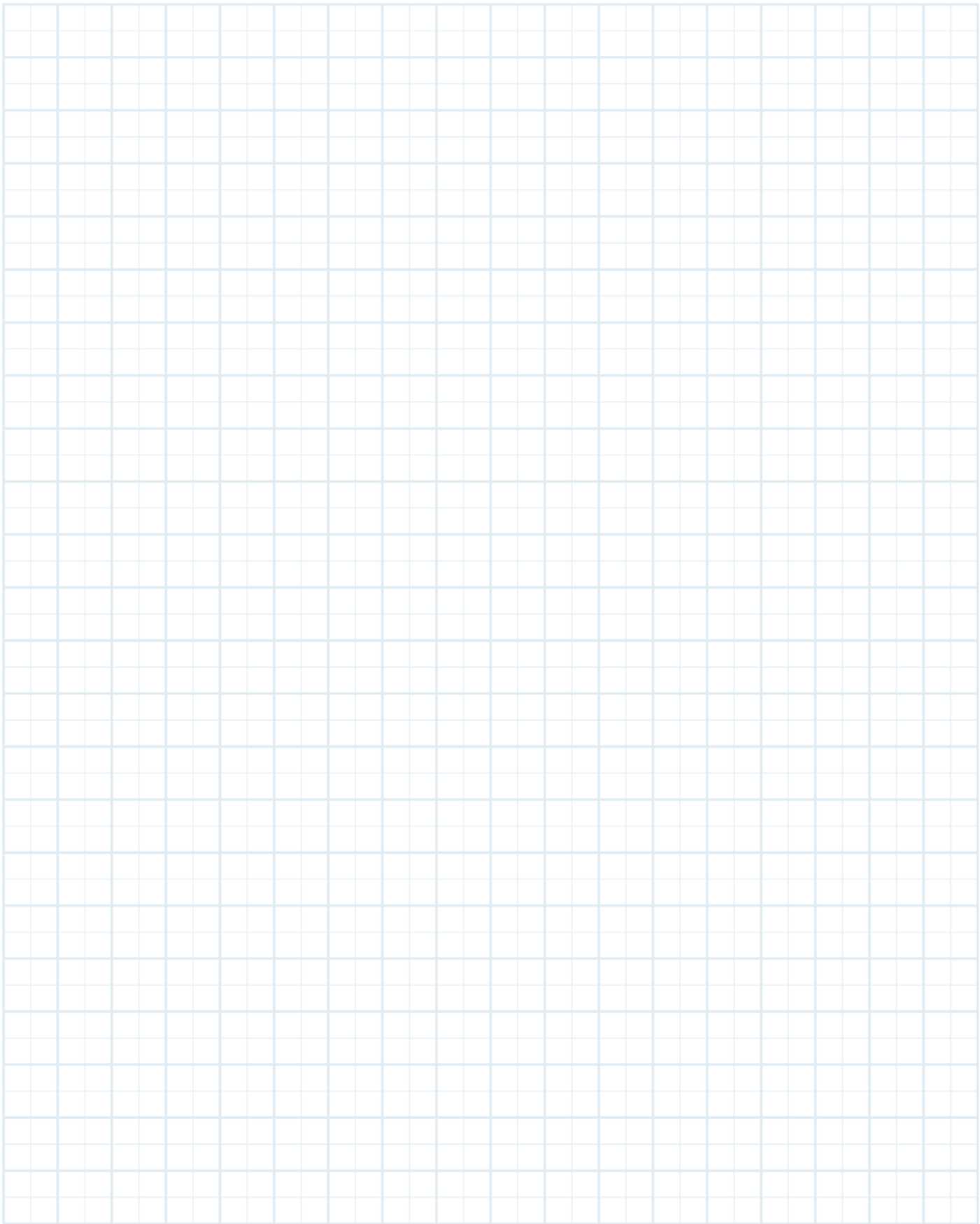
ZELENODOLSK SHIPYARD - Floating dock:
ECOMar 24 STP System

ZNT SHIPYARD - Diving boat:
ECOMar 6 STP System

REFERENCES



NOTES





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



TECNICOMAR®
WATERMAKERS - SEWAGE TREATMENT PLANTS

TECNICOMAR S.p.A.

Head Office and Factory: 91025 MARSALA (TP), ITALY - C.da Berbaro, 145/D - S.S. 115 Km. 36,4

Phone (+39) 0923 969409 - Fax (+39) 0923 960235

Subsidiary: 55049 VIAREGGIO (LU) - Via M. Coppino, 67 - Phone / Fax (+39) 0584 395408

www.tecnicomar.it · E-mail: info@tecnicomar.it

SEE MORE

