



REVERSE OSMOSIS WATER PURIFICATION SYSTEMS

PETSEA RO

SISTEMAS DE PURIFICACIÓN DE AGUA POR OSMOSIS INVERSA

AGUA DE MAR
SW
SEA WATER



REVERSE OSMOSIS WATER DESALINATION SYSTEMS

The Petsea Ro® reverse osmosis water desalination systems have been designed to obtain drinkable water, purified water or ultra pure high quality water. They are prepared to resist the hardest working conditions (24 hours a day) in marine or industrial environments and to meet the highest water quality standards, as well for human consumption as for food industry or hospital uses.

Peter Taboada® develops all its systems and equipments following the strictest quality controls and fulfilling the most exigent manufacturing international standards, including CE and CE-Hospital marks.

Peter Taboada® holds quality certificate ISO 9001. Quality characteristics of Petsea Ro® Systems are achieved thanks to the efforts of our R&D+i department and to the continuous after-sales assistance given by our Technical Service Department, which allows us to continuously improve our work.

The Petsea Ro® systems are versatile and highly adaptable, manufactured to each specific need, as they include oversized pumps and hydraulic components, which allows at any moment the installation of extra membranes in order to increase the production without decreasing the equipment efficiency.

Either for sea water (SW) or brackish water (BW), well or tap water (TW) equipments, it exists a wide range of products which goes from standard to industrial line, manufactured as per customer requirements.



STANDARD RANGE

Peter Taboada presents its standard range of reverse osmosis desalination systems PETSEA RO® from 0.50 m³/day to 10,000 m³/day production.

This range of reverse osmosis units includes brackish and sea water desalination systems, as well as systems to obtain ultra pure water.

Sea water reverse osmosis systems (SW), to be installed on board or inland.

INLAND SYSTEMS: All inland systems must be fed with brackish water coming, preferably, from wells, so that the water comes already filtered.

ONBOARD SYSTEMS: Compact systems prepared to operate 24 hours / day under extreme temperature, salinity and vibrations conditions.

Duplex and triples systems, Automatic start up available. Besides, customized systems for special applications, reduced spaces (even submarines), etc.

STANDARD COMPONENTS

Quartz sand filter and anthracite with automatic cleaning system. Standard deironing material is included for sea water systems.

Microfiltration.

Antifouling system (depending on models)

Feeding pump in stainless steel AISI 316 L

Stainless steel high pressure pump AISI 316 L, Duplex and Super Duplex (depending on application and quality of the water)

Pulsation dampener, to reduce noises and vibrations.

Polyamide membranes.

High and Low Pressure Gauges, glycerine interior, stainless steel AISI 316 L

High and Low security pressure switch in stainless steel AISI 316 L

Flow-meter.

Time-meter.

Electronic salinity meter.

Stainless steel AISI 316 L polished frame.

Designed in order to allow easy service and rear access working space.

Sea water inlets and outlets with stainless steel AISI 316 L connections, to avoid breaking because of vibrations.

High pressure pipe stainless steel AISI 316 L / 904 L (depending on models)

Components in contact with potable water manufactured in alimentary use material [stainless steel AISI 316 L]

Automatic rejection of non drinkable water.

CE mark and IMO regulations.

OPTIONAL SYSTEMS

Pre-treatment included [sand, carbon and micrometric filters, chemical dosage, etc.]

Auto-flushing [manual / automatic]

Membrane cleaning system [manual or automatic]

By-pass membranes

Automatic or manual operation

Energy recovery system for more efficient power consumption

Possibility of capacity increase

Pre-sterilization with UV rays

Disinfection and treatment of produced water

Plant operation via PC

Remote connection via Internet

Double systems

Packaged in 20' or 40' container.

Module assembled for reduced spaces locations.

