TOBAGO

DESALINATION 4.0

MTT - Marine Thermal Trigeneration

Thanks to the best available technologies, Tobago is able to make the most of marine resources, not only producing drinking water through Reverse Osmosis, but simultaneously also hot sanitary water and cold water for the air conditioning systems.

REVERSE OSMOSIS

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Tobago's reverse osmosis system is the most technologically advanced solution for desalinating water.

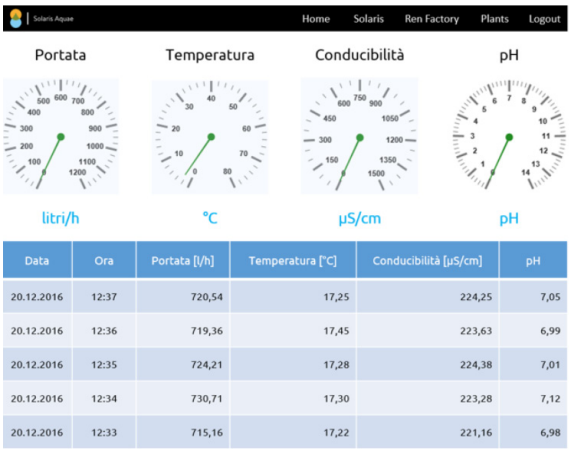
RELIABILITY
The system doesn't need pipes or fittings subjected to high pressures, preventing in this way rapid wear.

COMPACTNESS
Desalination plants occupy up to half the space required for the more compact conventional system at equal production capacity.

VERY LOW ENERGY CONSUMPTION
The modern technologies make possible to optimize at the best the energy consumption, limiting to a 3.5 kWh the energy requirement for 1 m3 production of desalinated water.

CUSTOMIZED SYSTEMS
We able to produce various plant sizes in accordance with the actual customer needs.

INTERNET OF THINGS



Data	Ora	Portata [l/h]	Temperatura [°C]	Conducibilità [µS/cm]	pH
20.12.2016	12:37	720,54	17,25	224,25	7,05
20.12.2016	12:36	719,36	17,45	223,63	6,99
20.12.2016	12:35	724,21	17,28	224,38	7,01
20.12.2016	12:34	730,71	17,30	223,28	7,12
20.12.2016	12:33	715,16	17,22	221,16	6,98

REMOTE MANAGEMENT
Our plants are always connected to our Control Center. The connection is in radiofrequency, thanks to the modern M2M technologies (Machine to Machine).

Plants are interfaced with web-based communication systems (PC, tablets, mobile phones, etc.) and therefore can be located anywhere in the world.

The electronic and management control of our plants around the world is active via our Control Center, 24/7, directly managed by our company.

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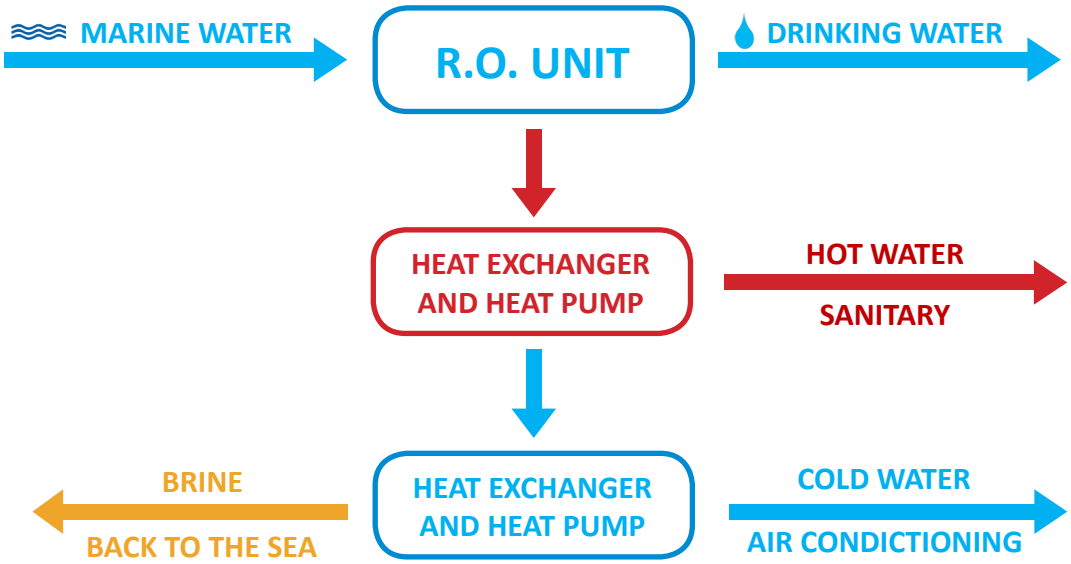
MARINE THERMAL TRIGENERATION



Using sea water and solar energy (available also an option with integrated PV plant), the MTT unit can supply to communities close to the sea almost unlimited quantities of:

- drinking water
- hot sanitary water
- cold water for air conditioning systems

The power requirements for MTT systems can be entirely supplied by PV plants: in this case the whole system will be totally autonomous. The management costs of MTT are far lower than any other system based on fossil fuel usage.

The combination of the following factors:

1. low management costs
2. total autonomy from external factors

makes the MTT systems a fundamental element of innovation for the development of the coastal area economy and a concrete solution to the problems related to the increasingly frequency of water scarcity.

WASTEWATER TREATMENT AND REUSE

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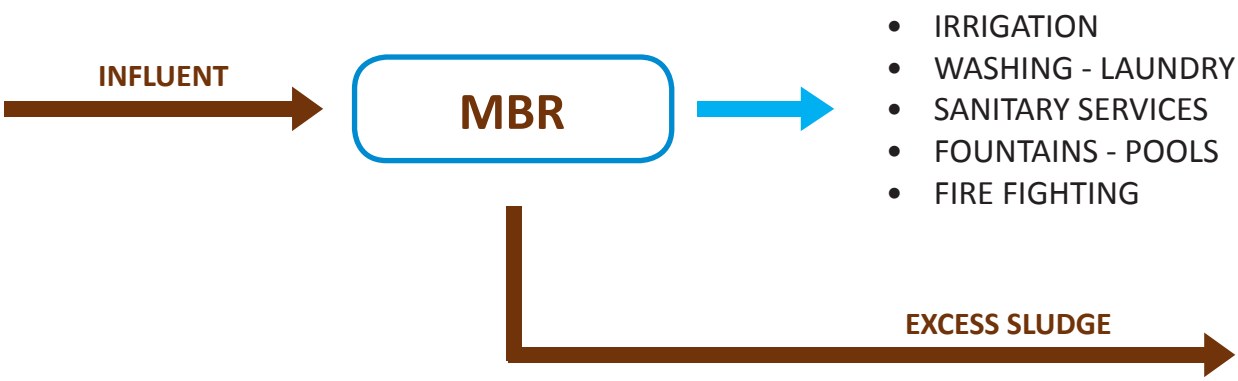

BIOLOGICAL WASTEWATER TREATMENT WITH IMMERSED MEMBRANES

MBR (Membrane Bio-Reactor) is a biological wastewater treatment system consisting in the combination between a traditional active sludge treatment process and a membrane separation system.

It is particularly suitable for the expansion of existing activated sludge treatment plants, which are obsolete or have become undersized after an increased incoming load.

The biological treatment system with immersed membranes, completes the water treatment cycle and its relative reuse in tourist structures, resorts and hotels.

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Ren Factory

SOLARIS AQUAE

THE GROUP

Thanks to the solidity of our group, we are able to provide two types of selling:

- **DIRECT SELLING**
- **RENT TO BUY**
  This formula does not require any initial investment from customer side

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