



# Seaclean™ filter

pressurized multi-media filtration for the clarification of seawater

○ **desalination**



## performance and protection

a guarantee of consistency in filtration quality, that protects the entire installation

## longevity

protects and increases the life of the reverse osmosis installation

# 51 m<sup>2</sup>

of filtration area for each filter

▶ **protect the core of reverse osmosis membranes with multi-media filtration**

▶ **two layers of media to optimize the filtration quality**

○ Seaclean™ filter is designed specifically for the desalination of seawater.

○ Employed as a pre-treatment, it can be used on facilities of all sizes.

## Seaclean™ filter technology

The Seaclean™ filter integrates within a system of seawater desalination.

This two-layer filtration technology (anthracite + sand) takes place on one level before reverse osmosis, and it may be preceded by dissolved air flotation clarification (see Seadaf™ system) for water presenting occasional peaks in organic matter and algal blooms.

**An optimized cleaning that reduces water loss:** the Seaclean™ filter is a pressurized horizontal filter therefore filtration occurs with a downward flow through 2 layers of media:

- an upper layer of anthracite, the larger media, that captures suspended matter,
- a lower layer of sand, the finer material, which reduces the SDI (Silt Density Index) and therefore the risks of reverse osmosis membranes fouling.

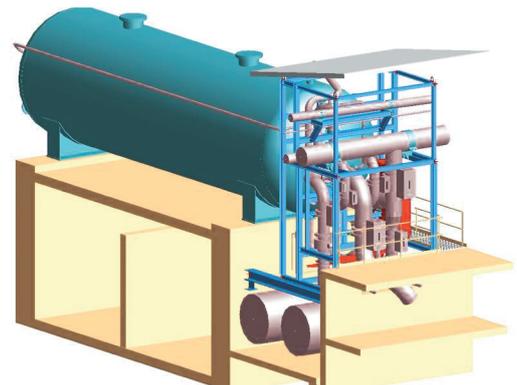
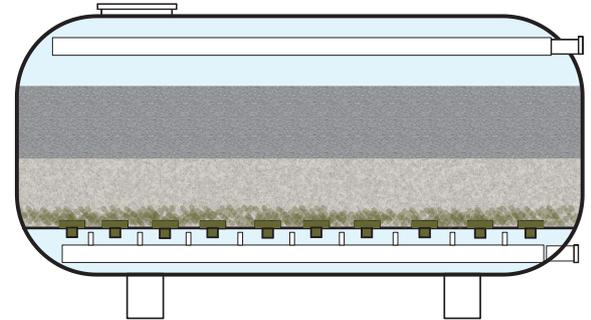
To maintain filtration efficiency, backwashing of filters is required. It is done in 2 phases: the air phase lifts off impurities and is completed by a water phase to discharge sludge and realign media layers mixed together during the air phase.

## what it can do for you

- **quality and protection:**
  - the quality of filtered water is stabilized and guaranteed before the reverse osmosis phase;
  - the risk of media loss is minimized.
- **performance and economy:**
  - a process that augments the performance of reverse osmosis;
  - less equipment cleaning means water loss is reduced.
- **flexibility:** a process adapted to facilities of all sizes.

anthracite

sand



**1 layer:** anthracite

**2 layer:** sand



filtration

## among our references

- Al Dur, BARHEIN (218 000 m<sup>3</sup>/d capacity)
- Barcelone, ESPAGNE (200 000 m<sup>3</sup>/d capacity)
- Perth, AUSTRALIE (140 000 m<sup>3</sup>/d capacity)

## contact

SUEZ  
Treatment Solutions  
innovation.mailin@degremont.com  
www.degremont.com