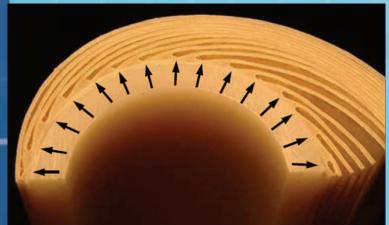


OSMOS'ICE

Optimise your bottled water production

Reverse Osmosis (RO) technology is commonly used in industries to lower the Total Dissolved Solids content of raw water. In beverage industry, it is used for bottled water production and soft drinks production.

I.C.E. with its long and diversified experience offers you a secured



OSMOS'ICE

Based on analyses of your raw water, our Engineering Department calculates and optimises your RO Unit for maximal production.



Advantages :

- ↳ **Water saving:** Optimizing waste water **down to 5%**
- ↳ **Low maintenance**
- ↳ **Automated operation**
- ↳ **Removal of ionic mineral species:** anions and cations.

OSMOS'ICE

Optimise your bottled water production

5

I.C.E. Reverse Osmosis can produce a **variable flow of permeate** (500 l/h to over 100 m³/h) from sea water, brackish groundwater or city water.

↳ OUR SOLUTIONS :

- **Sizing** optimization
- **Selection of the best membrane** and adjustments for the water to be treated
- **Systematic simulation** balances of each element.

Possibility to **integrate the RO-WASA system** to get **conversion rates of 95 up to 98%**.



Detail of Reverse Osmoses Membrane



All data are monitored online for direct control.

↳ OPTIONS :

- Autodump recycling
- Hot water sanitizable
- Water saving unit: water losses reduced below 5%
- Integrated Cleaning In Place system (CIP)

↳ FEATURES :

Sanitary design

- Stainless steel skid and pressure vessels
- Sanitary connections
- All piping in stainless steel 316L (or 904L for specific applications).

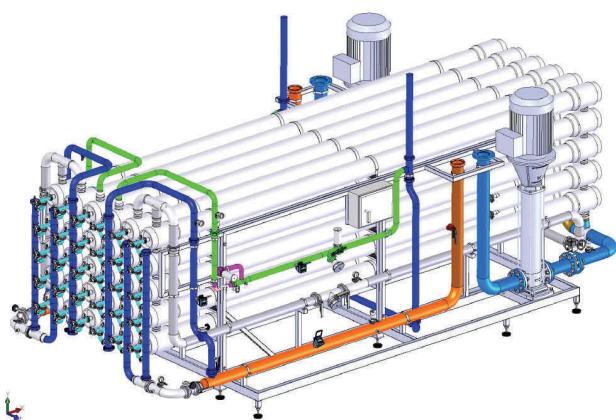
Improved sanitization

- Cleaning stage by stage
- Absence of dead leg.

Efficient removal of biofilms or scaling.

High level of control

- Magnetic Flowmeters
- Pressure drop monitoring for alarms threshold .



Exemple of conception

