

## ICE WATER MANAGEMENT IS DEPLOYING A NEW CCRO TECHNOLOGY.



Thanks to a partnership with **DuPont Desaltec™**, ICE Water Management is deploying a new **CCRO** technology (**Closed Circuit Reverse Osmosis**). ICE will showcase this new CCRO technology during the new Drinktec edition. It will be an excellent opportunity for beverage producers to discover it on our booth.

As per conventional reverse osmosis demineralisation, CCRO removes ions and mineral salts from the water. However, this new method of implementing osmosis offers multiple advantages.

### *WHAT CAN YOU EXPECT?*

Due to its high resistance to biofouling, this technology is particularly effective for the treatment of water sensitive to biological clogging, such as in the case of water reclamation from wastewater treatment plants.

It is also suitable for the treatment of water loaded with silica and sulphates, for which it is possible to achieve conversion rates beyond chemical balances. By using CCRO, the volume of concentrate discharged to the drain is reduced and the volume of permeate collected is increased, without reducing the quality.

The optimisation of water recovery is possible thanks to fine tuning between the duration of the two operating phases (closed circuit production phase and purge phase).

The challenge is to find a balance between maximised closed loop production time and minimised purge cycle time.

### *CCRO ADVANTAGES*

Compared to classic reverse osmosis, the CCRO allows:

- water savings, up to 80 %,
- reduced energy consumption of the system by about 35%.
- reduction in clogging, biofouling and scaling of the membranes
- lower CIP frequency (cleaning in place), reduced by a factor of 4 to 6,
- better flexibility and adaptability to the variability of feed water composition.

**Visit us at hall B4 booth 201**

## About us:

French Company set up in 1987, ICE Water Management is specialised in water management in the beverage industry. It offers turnkey projects ranging from well to filler inlet and CIP, including engineering study, equipment, installation, services, and audits. For the past 30 years, ICE Water Management has been engineering and commissioning hygienic water treatment systems for beverage industries worldwide (bottled water, soft drinks, etc...) and has developed tailor-made answers taking into account bottlers constraints and production goals.

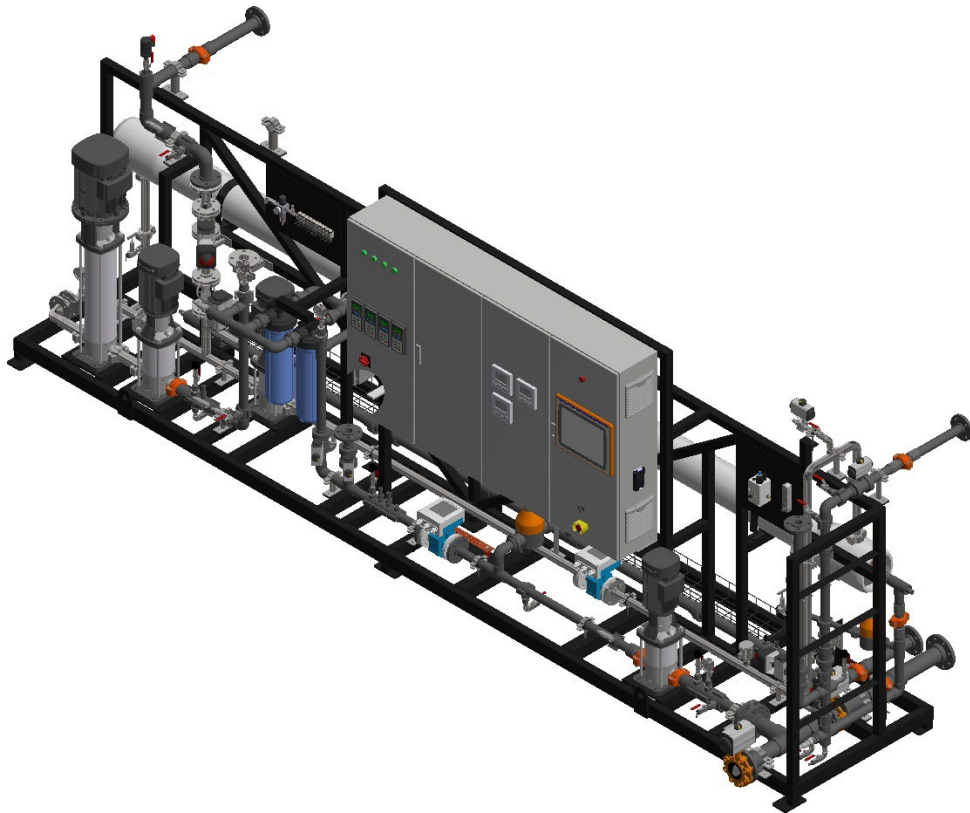
**ICE Water Management is a partner of the biggest water and beverage brands and positions itself as an expert in quality and processes.**

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## Press contact:

Nathalie Bergeret: [nbergeret@ice-wm.com](mailto:nbergeret@ice-wm.com)

**ICE Water Management** - 50 Rue Uranus, Parc Altaïs, 74650 Chavanod, France –  
<https://www.ice-water-treatment.com/en/>



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50 rue Uranus - Parc Altaïs - 74650 Chavanod - France  
Tél. +33 (0)4 50 08 06 66 - Fax +33 (0)4 50 08 06 63  
[www.ice-water-treatment.com](http://www.ice-water-treatment.com)

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