

In the food and beverage industry, water is widely used as a raw material, in processes as well as in cleaning operations or service water.



The WASA®:

- **Save up to 100 % of lost water**
- Reach the ideal **bottled water ratio**
- **Generate Energy** by saving water



Since 2005, I.C.E. has been developing a whole range of services and processes to save water for your plant, reduce water consumption and your running costs by allowing your company to follow a sustainable development approach:

- **Audits**
- **Water Management**
- **Water consumption**
- **Scheduling**
- **Recycling** systems
- **Waste Water optimisation**



WASA®

Concepts & processes of I.C.E.

AUDIT WASA®

The long lasting solution to reduce at no cost your water consumption.

Saving water begins with a good water management in your plant. Respecting ORIGINAL AND SPECIFIC EXPERTISE, our I.C.E. experts track the waste and losses, checking the characteristics of the consumed water (required quality and flow).

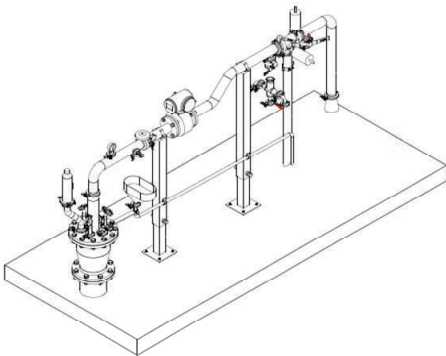
Following these researches, observations and calculations, the I.C.E. team establishes a water management strategy including the possibility of recycling, treatment, reuse, equipment improvement, waste water optimisation, energy production.

- **Water saving up to 50%** of water consumption
- **Energy saving** and energy production **strategy**
- **Audit schedule: 2 to 5 days on site, a week for the report.**

Water and money saving, innovation, imagination, technology, and expertise are the key words of these audits.



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RESOURCE-WASA®

The software to manage your resources according to your production schedule.

Patented software to manage pumping time and flow.

- **Saves water : Limits the flow of your** Resources protection **auto-dump**
- **Adapts the pumped flow respecting** your aquifer characteristics, thus avoiding excessive flow
- **Protects your resources** against over consumption and **limits the risk of resources spoiling.**

I.C.E. has imagined for you the Computer Assisted Water Saving solving your water resources management.

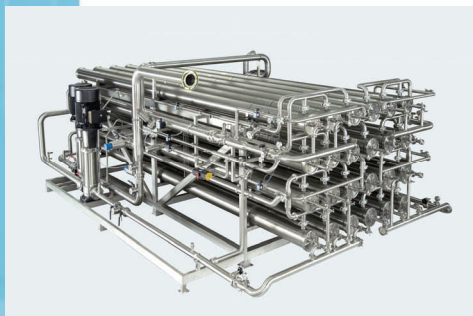


WASA®

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RO-WASA®

The Reverse Osmosis concentrate reducer.

RO-WASA® is a water saver which can be adapted to the I.C.E. Reverse Osmosis Units (OSMOS'ICE).

It recycles the concentrate WITHOUT ADDITIONAL ENERGY.

It reduces the concentrates flow by 50 to 75%, improving the recovery rate of your RO up to 99% and enables you to reduce your water feeding by re-injecting the saved water upstream of the RO.

- **Saves water : 50 to 75%** of rejected water
- **Reduces the water feed by 10 to 20 %**
- Improves the **recovery rate by up to 95%.**

The way to reject salts and contaminants and keep water for your production.

BACKWASH-WASA®

Reduction of water consumption and productivity gain.

Backwashing Media filter (sand, carbon, MnO₂) generates a huge flow to recover efficiency.

Backwash-WASA® combines :

- Backwashing procedures
- Water recycling by treating the discharges with particles concentration allowing an efficient purification.

- **Saves water: from 50% to 90%,** according to the type particles being stopped on media
- **Reduces a part of the treated water** required for backwash, therefore increases your production capacity.

Backwash-WASA® generates water consumption reduction and productivity gain.



UF-WASA®

The solution to reduce the backwash discharge of your ultrafiltration system.

UF-WASA® is a water saver which can be adapted to the I.C.E. UF or microfiltration (MF) units but also adapted to all brands of ultrafiltration.

It reduces the rejected flow by 50 to 75%, improving the recovery rate of your UF up to 99% by increasing UF production.

- **Saves water : 50 to 75%** of rejected water
- Improves the **recovery rate by up to 95%.**

The way to combine production costs reduction and water savings.

WASA®

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WA-WASA® / RIN-WASA®

The bottle washer water saver.

WA-WASA® recycles the water of your bottle washer (adaptable to all washer brands "5 gallons") reducing your feed flow by 30 % of your normal consumption. It removes all substances, particles, bacteria and germs to feed the final rinse of the washer with germ-free water, with a drinking water quality. As an option, ozone can be injected into the rinser feed water.

- **Saved water: 60%** of current losses
- **Guaranteed germ-free water**, with a drinking water quality.

And also:

The WA-WASA® 5 Gallons: when washing "5 gallons" becomes environmentally friendly

The WA-WASA® Glass: eco friendly Glass bottles filling

The RIN-WASA®: rinsing without consuming.



4-WASA®

The bottle rinser recycler.

RIN-WASA® recycles the water of your bottle rinser (adaptable to all rinser brands) reducing your feed flow to 1 m³/day. It removes all particles, bacteria and germs to feed the rinser with germ-free water.

As an option, ozone can be injected into the rinser feed water.

- **Saved water: it requires 1 m³ per day only**
- **Guaranteed germ-free water** to the rinser.

More water for your bottling, no more waste.

