demEAUmed

Demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities www.demeaumed.eu

PLIMMER CDI

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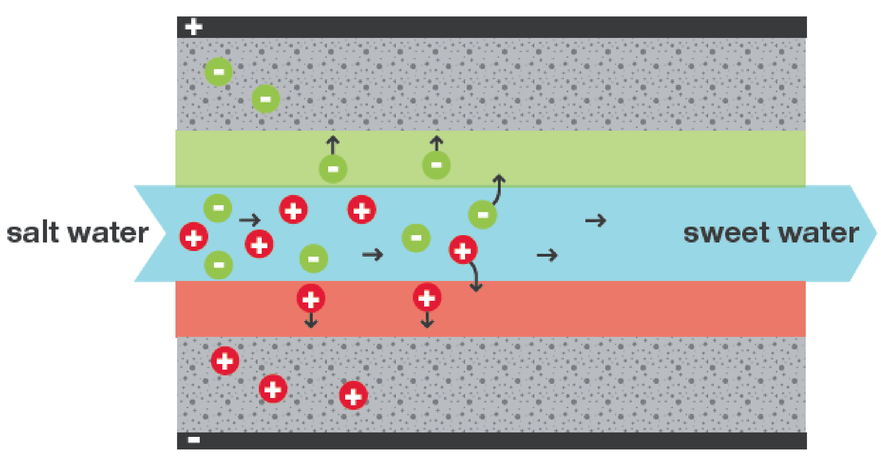
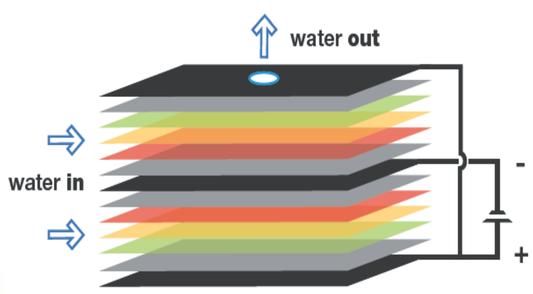
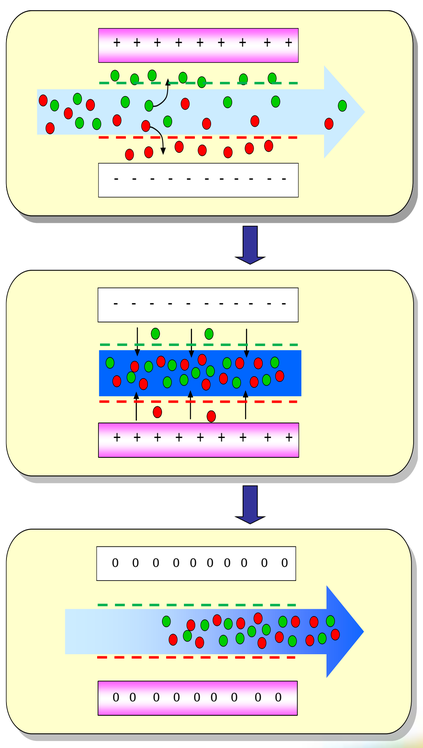
How it works





Purification cycle → 3 main steps



Step 1 Ion removal

When water passes between the electrodes, ions are attracted to the oppositely-charged electrodes. The output water with these salts and metals removed exits the system

Step 2 Regeneration

As more and more ions are attracted to the electrodes, the electrodes become saturated. At this point, **Plimmer®** automatically stops the input flow, reverses the electrode polarity and discharges the adsorbed ions back into the cell

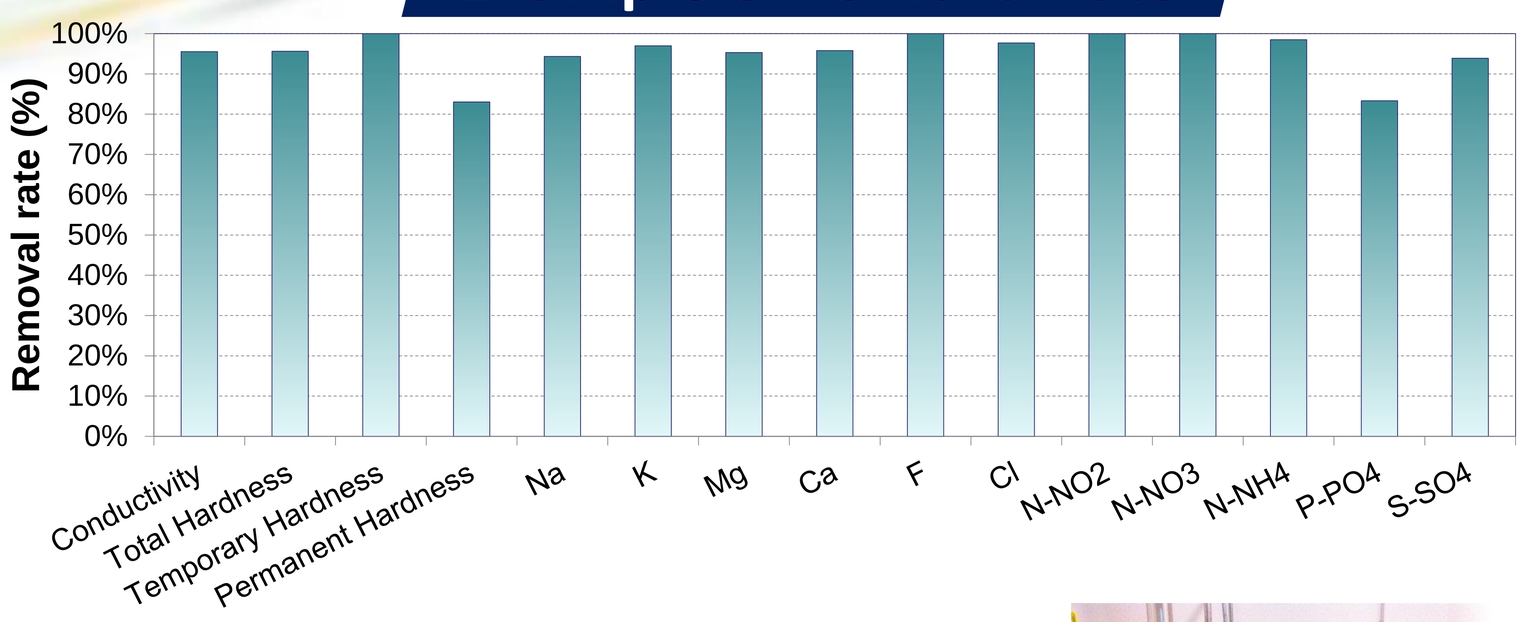
Step 3 Flush

The cell is then flushed and the ions trapped in the cell are sent to waste. **Plimmer®** then re-establishes the original electrode polarity and the ion removal process (Step 1) starts again

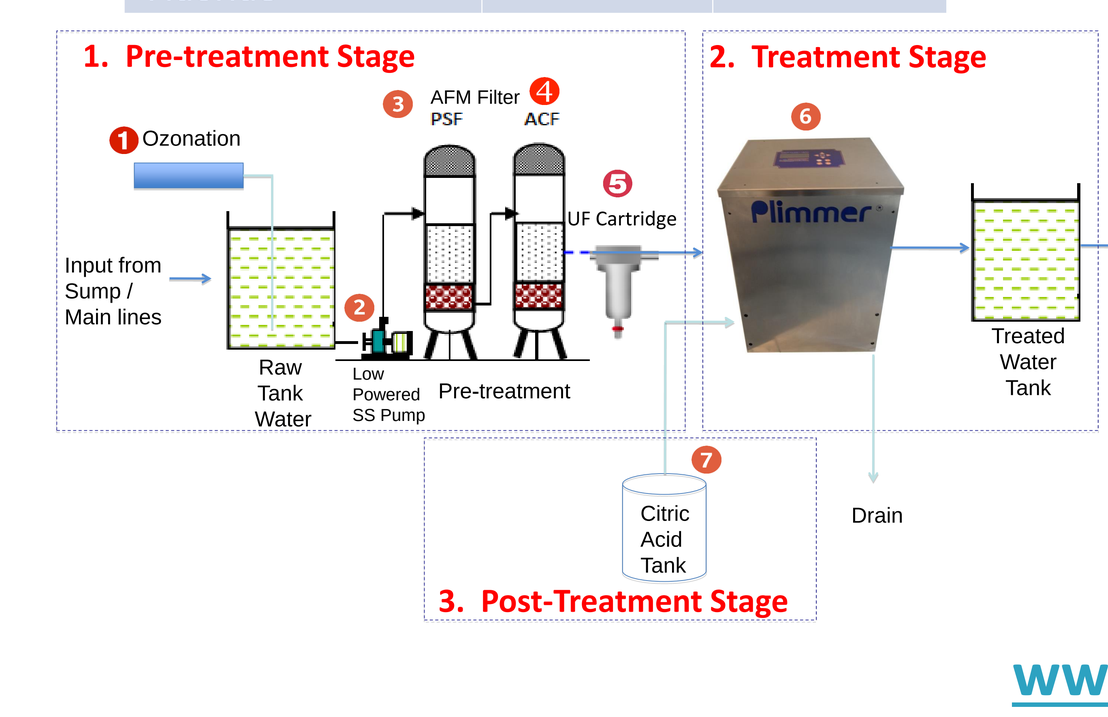
What can be removed?

SALTS	METALS	OTHERS
•Total Dissolved Solids •Total Hardness •Calcium Carbonate •Magnesium Carbonate •Sodium Chloride •Phosphates •Sulphates •Chlorides •Nitrates •Fluoride	•Chrome •Iron •Arsenic •Nickel •Copper •Zinc •Cadmium •Mercury •Manganese •Lead •Vanadium	•Ammonia •Chromium 6

Example of removal rate



Technology applications



Drinking water

Glass/Dish washers

Boiler rooms

Grey/waste water reuse

(in combination with other technologies)

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