



Product factsheet

Improved containerized water treatment pilots

Hardware product or technological device

Service offering



Description

The IMPROVED containers have several water treatment technologies such as RO, ion exchange, ultrafiltration, activated carbon, coagulation and flocculation, electrodialysis, electrodeionization and advanced oxidation processes with nominal flowrate of 250 l/h each. A water treatment train can be formed with these technologies in an arbitrary order in so that the best solution in terms of water quality and economics. The containers are easy to place on site and start up, needing only drain, feed water and power. Everything is made to high safety standard with reliable track record in the strictest safety environments such as the crackers of BASF and Dow. A lot of logging and automation exists in the containers, allowing 24/7 operation for months being able to track the performance of the technologies with varying feed water quality. Lots of scientific expertise from the university can help with tackling the toughest water challenges.

Target audience

Utilities, end users, companies

Actors, their roles and interactions

Companies, utilities, technology providers, end-users can hire the containers in order to test the performance of a water treatment train before implementing it on full scale, avoiding costly mistakes or oversights in the design of future plants.

Unique selling points

Mobile, easy to connect, experience at Dow Terneuzen, Dow Bohlen, BASF Antwerp, Yara Sluiskill

Technical requirements

1m³/h feed water, nearby drain pit, 32 and 63 3 phase sockets

Publications

<https://aquaspice.eu/results/>

URL

<https://www.improvedwater.eu/>

Technologies applied by the product

- Adsorption systems
- Membrane systems
- [Reverse Osmosis](#)

Technology Readiness Level

Level 9 (Last update: 2025-06-05)

Downloads

The following file can be downloaded from the online page of the product:
<https://mp.watereurope.eu/d/product/181>

- [Improved containerized water treatment pilots](#)