EUROPEAN AWARD
WINNING TECHNOLOGY


# Fors

All-in-one small footprint packaged system, for safe & sustainable freshwater production. Using a patented solution, Fors reduces commonly found pollutants without compromising with the water's naturally rich taste. Fors provides enough water for a one-family home.

swt

*ENERGY EFFICIENT*
*TAILORABLE WATER QUALITY*
*PATENTED TECHNOLOGY*

stockholmwater.com
+46 8 707 61 20
info@stockholmwater.com

# ALL IN ONE SOLUTION

**Health**
Removes heavy metals and maintains essential minerals

**Hardness**
Reduces water hardness

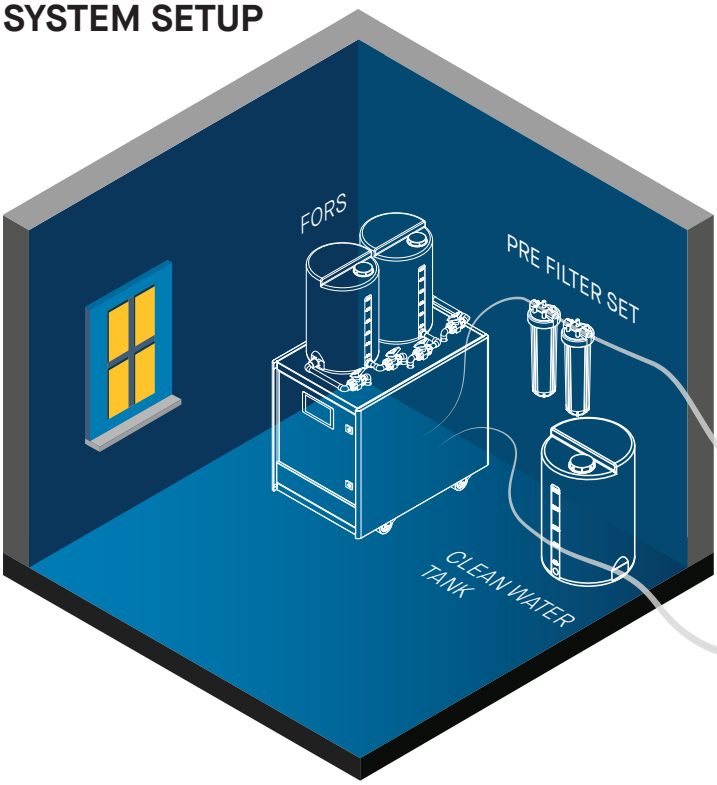
**Smart system**
Smart algorithms for intelligent system operations

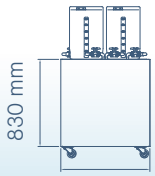
**Disinfection**
Kills bacteria and viruses

**Customizable**
Modular and scalable system

**Turbidity**
Improves clarity of the water

## SYSTEM SETUP





# GETTING STARTED

Getting started with Fors is simple. The system is installed through a certified partner, who will instruct on operating procedures. The system is programmed to run autonomously and report basic functions to SWT control center in real-time, ensuring error-free operation and quick turnaround for unforeseen issues. Fors needs a flat ground and an electrical point to commence installation and operations, giving you uninterrupted clean water.

INLET WATER

OUTLET WATER




# SPECIFICATIONS

## SYSTEM

| | |
|---|---|
| DRY WEIGHT: | 140 kg |
| POWER USAGE: | 1-1,3 kWh/1000L |
| CAPACITY: | 700-1500 L/day |
| WATER RECOVERY: | 80% |
| ION REMOVAL CAPACITY: | 20-90% |
| AMBIENT AIR TEMPERATURE: | Up to 60°C |

## WATER

| | |
|---|---|
| FEEDWATER TDS: | Up to 1000 mg/L |
| WATER PH: | 6-11 |
| WATER TEMPERATURE: | 4-70°C |
| INPUT WATER PRESSURE: | 1 - 5 bar (15 - 75 psi) |
| OUTPUT WATER PRESSURE: | Tailorable |

Note: Capacity, power usage, and how often the system needs to be maintained are dependent on initial water quality.

# TECHNOLOGY

Fors purifies water with a technology that is based on **capacitive deionization**. The technology was developed and perfected over 15 years of R&D.

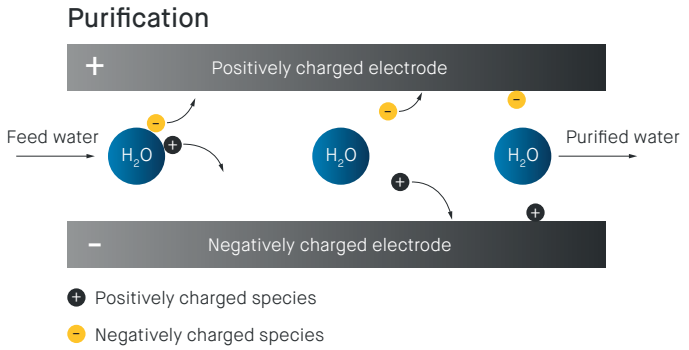
A programmable electrostatic potential is applied on electrodes in contact with water, which in turn removes charged species and certain organic pollutants.

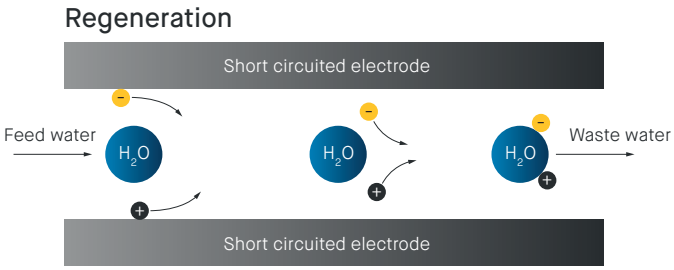
As an example, consider a feed of water with high salinity that is made out of negatively charged Chloride ions and positively charged Sodium ions. When the electrostatic potential is applied to the electrodes, these ions will be attracted to oppositely charged electrodes respectively.

Once the electrodes are saturated, we simply break the current and release the ions into a separate wastewater stream.

The waters' metallic, salt, microbial and organic content is tailored to safe drinking water levels or for levels required for the specific application.

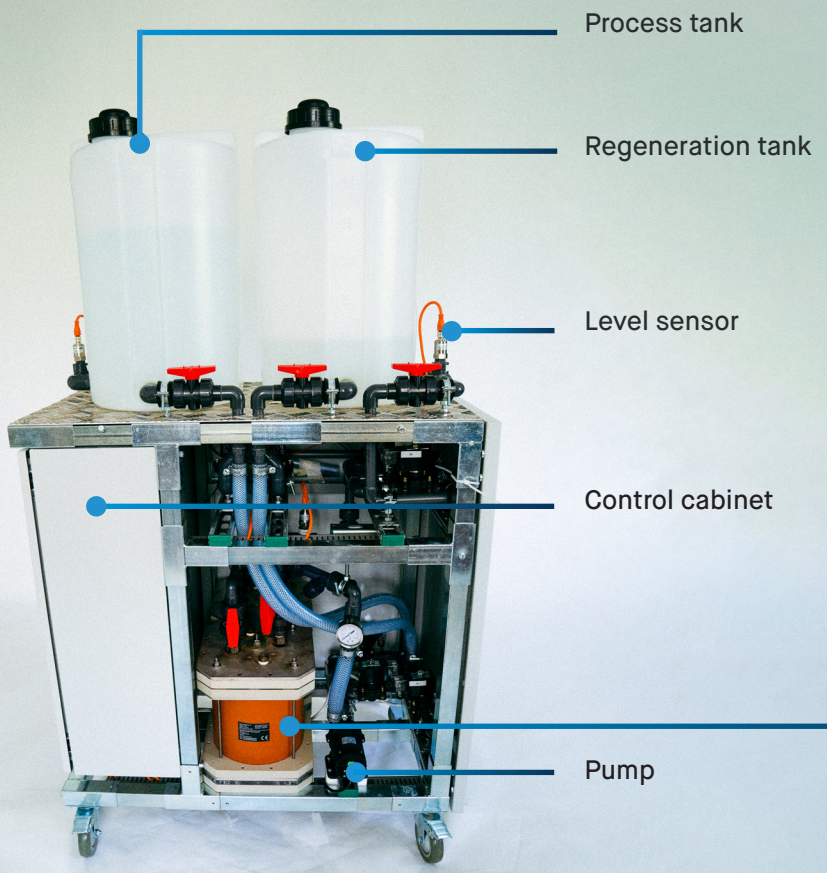
**KEY FEATURES**
MEMBRANE INDEPENDENT
CHEMICAL-FREE
WIDE CONTAMINANT REMOVAL PROFILE




*SWT are proud winners of the EIT Public Award 2020 by EIT – European Institute of Innovation and Technology.*

# COMPONENTS




## Core M1

The heart of Fors is the **Core M1** module that incorporates our capacitive deionization technology. Multiple modules can be added into a system depending on the application and solutions to specific customer needs can be tailor-made.

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# Bringing circularity & sustainability to water treatment

**Stockholm Water Technology AB**
Torsgatan 11, 111 23 Stockholm

+46 8 707 61 20
info@stockholmwater.com
stockholmwater.com