



Vision

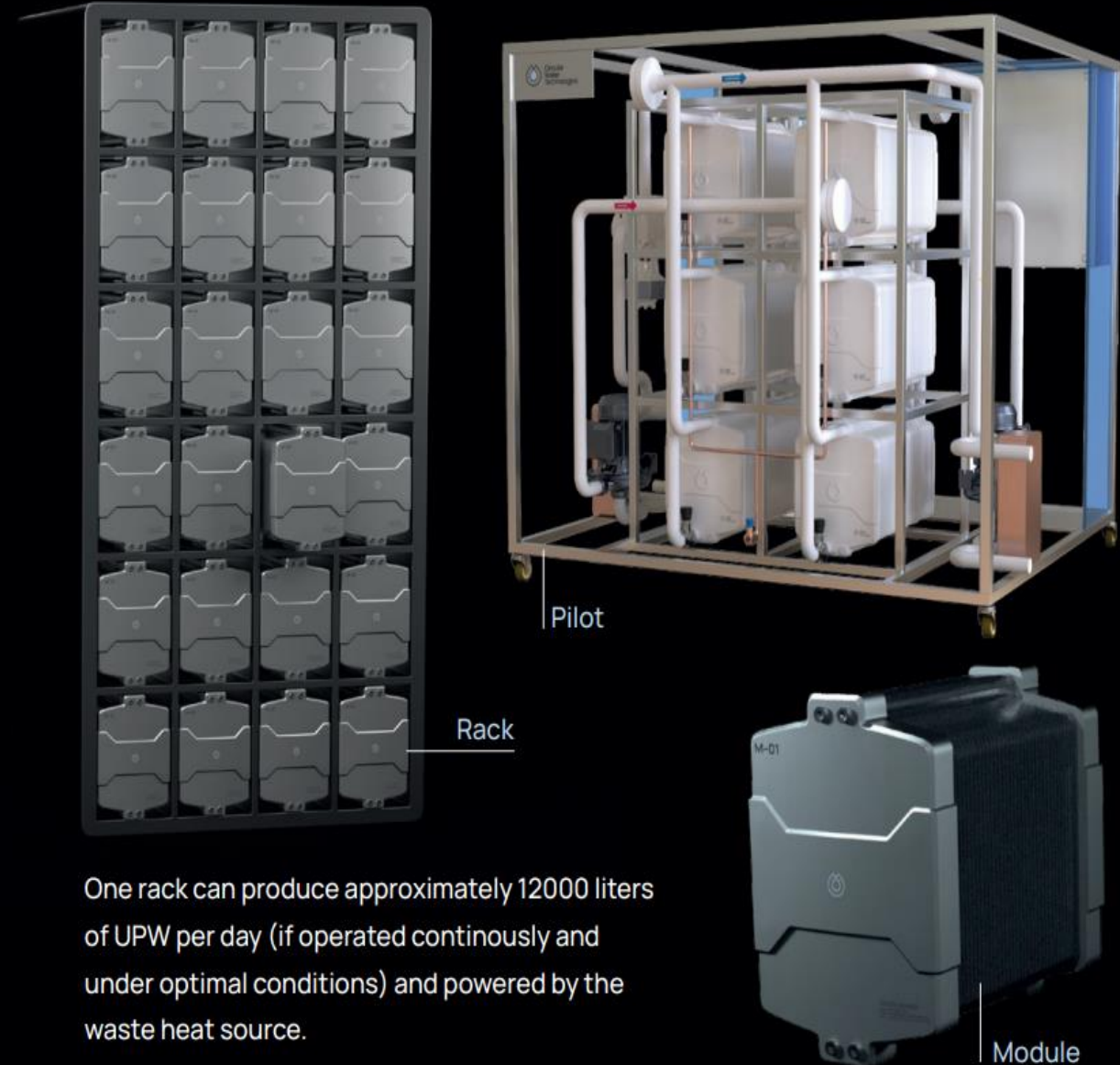
Our vision is to be a driver of the green transition by providing resource efficient solutions for water purification in the industry sector.

Our contribution results in a commercially viable solution for wastewater treatment, a circular use of water in industries, and an efficient resource recovery from wastewater.



Linda Fondén
CEO

Our Product Range

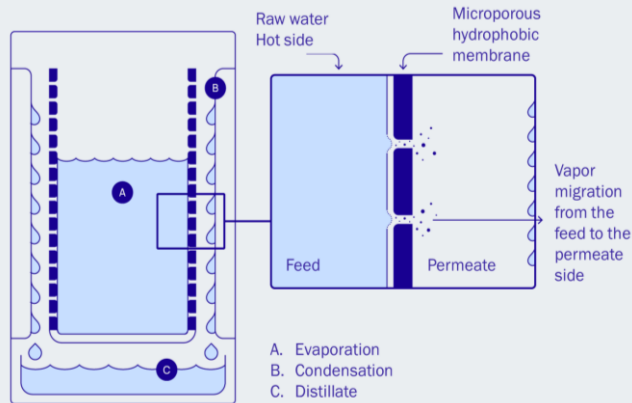


One rack can produce approximately 12000 liters of UPW per day (if operated continuously and under optimal conditions) and powered by the waste heat source.

Product Information

Technology Introduction

CWT's technology is based on evaporation, filtration, and condensation. The water is heated and pumped to a modular unit conformed by multiple cassettes that contain a series of hydrophobic membranes and chilling plates. Across the membranes, heat and mass/vapor are transported. Only water vapor can pass through hydrophobic membrane leaving behind all non-volatile pollutants, including ions and nano particles as shown in the figure below.



The transport is caused by the pressure difference produced by a temperature gradient between hot and cold water (Ca. 0.2 Bar), the mass is trapped and condensed in an airgap which becomes the permeate/pure water. As a difference from other purification techniques, our process extracts the water from the pollutants. The feed water with pollutants is pumped in a loop where it passes to the membrane system until the pollutants are accumulated in a saturated solution.



Heating Duty
750 – 850 kWh/m³



Cooling Duty
500 – 650 kWh/m³

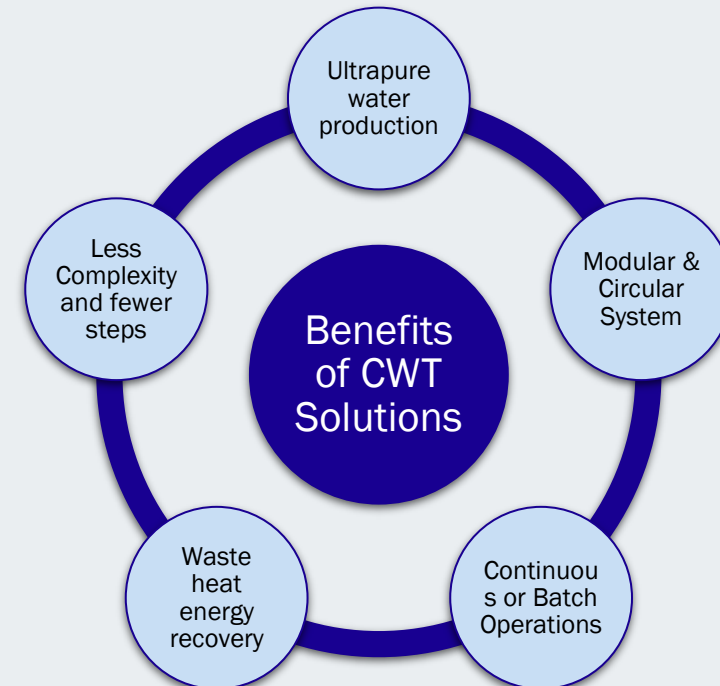


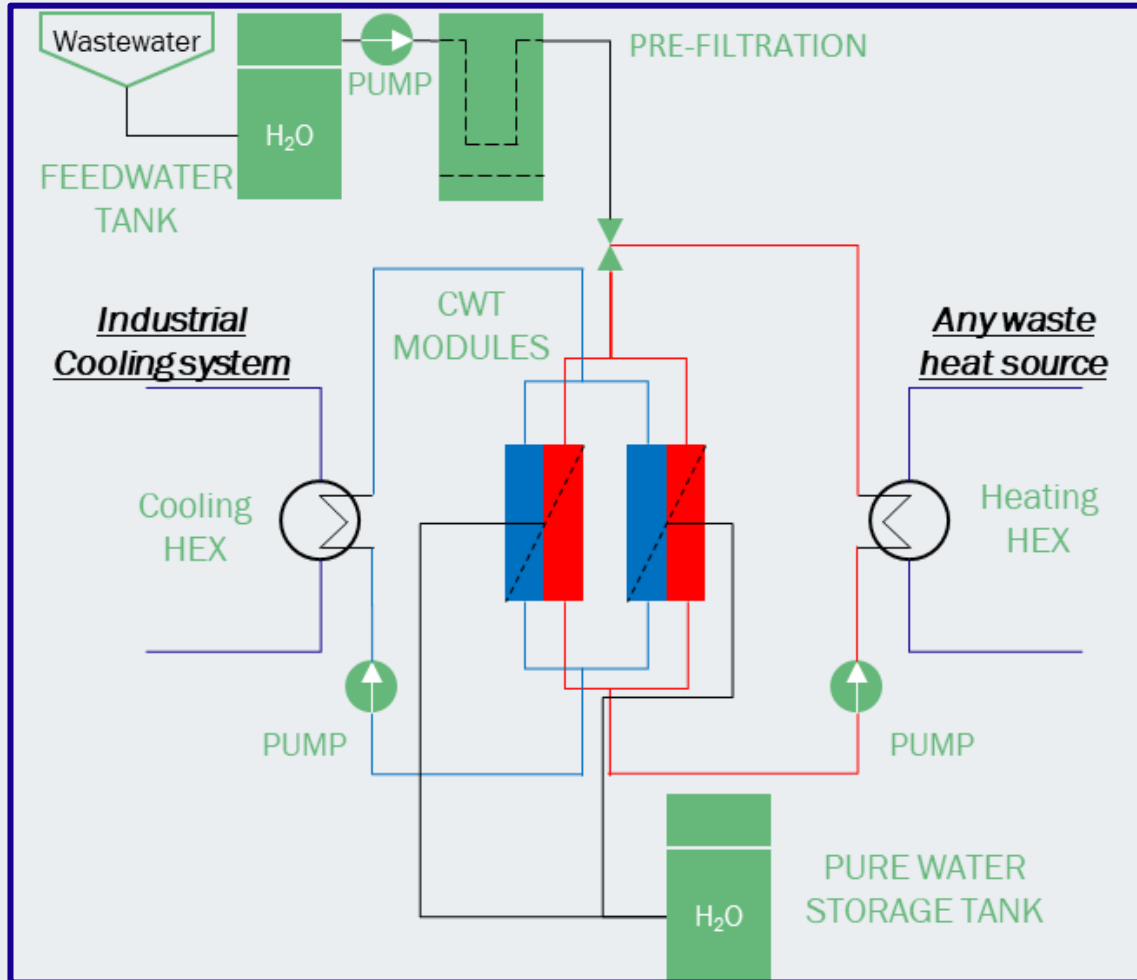
Electrical Duty
2 – 5 kWh/m³

Specific Energy Requirements

Recommended feed water quality

pH	3 – 12
Total Suspended Solids (TSS)	< 100 mg/L
Total Organic Carbon (TOC)	<50 mg/L
Conductivity	up to 36 mS/cm
No volatiles (need to be stabilized or volatiles removed using degassing as a pre-treatment step)	
No detergents or surfactants	





Redundancy

- Addition of extra modules to produce access Ultrapure water for cleaning and unplanned shutdowns.
- 10 - 20% redundancy proposed but could be adjusted.



Self-cleaning

- Modular system, accompanied with efficient control strategy to alternate self-cleaning of racks using Ultrapure water.



Lifetime

- **Module:** Expected lifetime **3 - 5 years**
- **System:** Based on individual equipment. **5 - 10 years**



Maintenance Protocol

- **Cleaning:** Ultrapure water and weak acid solutions (e.g., hypochlorous acid) for descaling or removing fouling.
- Single modules could be replaced in case of any damage.
- Preventive Maintenance planned after 6 months or as per protocol followed in the industry of operation.