

AQUA-Q

Innovation In Water

Clean Technology From Sweden

Breakthrough in Urban Water Treatment
SME Innovation for Circular Water Economy



Quality control of biological load in drinking
and reclaimed water



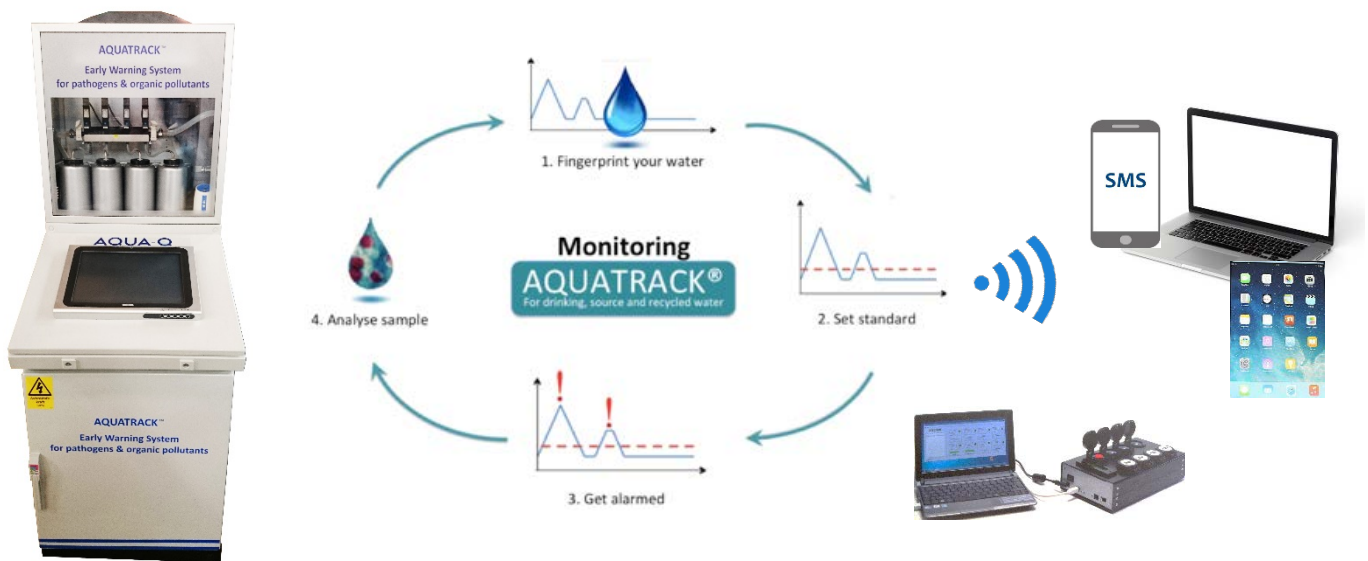
Corporate Background

Aqua-Q – a Swedish Cleantech SME founded by Water Industry professionals with extensive experience and knowledge – has developed two ground-breaking standalone technological innovations in the water sector:

- 1) Online real-time optical (laser) water quality monitoring & automatic sampling process **AQUATRACK®** - Enables Early Warning for pathogens in water. EU ETV Certified.
- 2) Automatic self-contained modular **Ozone polishing system** for online elimination of pharmaceutical residues & pathogens present in treated waste water (treated effluent) from MBR, MBBR, & SBR process.

AQUATRACK®

Early Warning Monitoring System for contamination in water

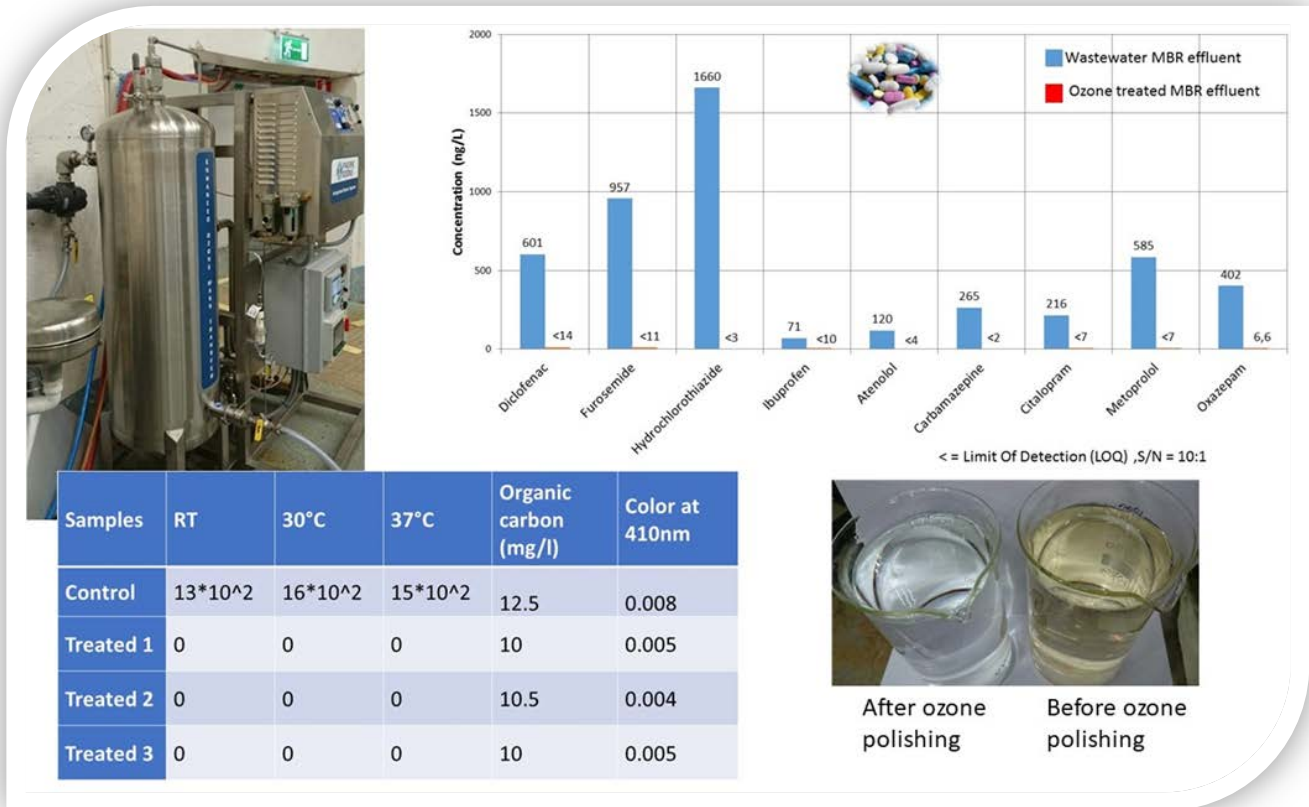


Ozone Polishing

Waste water is currently treated with MBR technology. The treated effluent water from the MBR process is discharged in nature, river, or used for irrigation, to replenish groundwater or for other industrial applications.

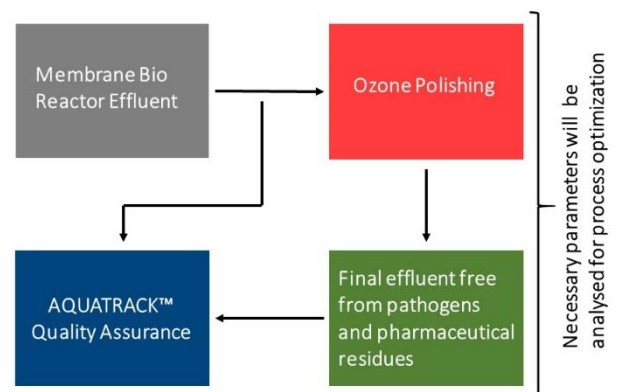
In a recently finished EU R3Water project, Aqua-Q detected and reported that the effluent discharge from MBR process contains harmful pathogens and pharmaceutical residues. These contaminants ultimately make way into our drinking water, aquatic life, bathing water, ground water etc.

To eliminate these contaminants cost-effectively, Aqua-Q has created a novel online modular self-contained ozone polishing system. The pilot system effectively brought pharmaceutical residues well within the present detection limits. Further, Aqua-Q's zero-emission system consumes very low energy. Outstanding results achieved can be seen below.



Future perspective

Aqua-Q's process scheme setup to the right combines the both technologies and will ensure cost effective online MBR effluent monitoring, sampling & elimination of pathogens and pharmaceutical residues. The treated water is ready for reuse.

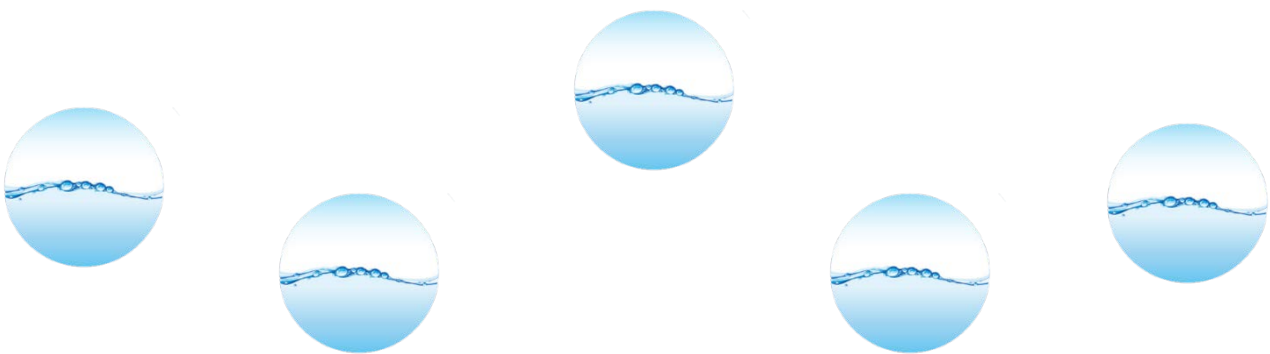


Aqua-Q, a Swedish SME, receives the World's most prestigious environmental National Energy Globe Award 2017 for its outstanding innovative achievement on real-time optical monitoring & sampling for quality control of drinking water & water for reuse and simultaneously removing pharmaceutical residues & pathogens in water by ozone polishing.



Jury-Rating

Water is the most important premise for a healthy and good life. Recognizing contamination in an early stage can save lives and increase the possibility of finding solutions quickly. This project can improve the living condition of many people and prevent epidemics. It uses a minimum of energy and causes no emissions. It is a great contribution to humanity!



AQUA-Q

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