

Reuse of effluent with ozone polishing

Aqua-Q AB, Sweden

The main source of contamination comes from purified / insufficiently purified wastewater, both industrial and small-scale private sewage discharge. It pollutes rivers, lakes, water bodies, and coastal waters and creates potential risk of microbial contamination in drinking water, bathing



water, groundwater, etc.

The emerging environmental problem in the developed countries is pharmaceutical residues in purified/ insufficiently purified wastewater both from municipality and industries.

In the EU R3 Water project Aqua-Q has developed/composed a modular ozone polishing system and have successfully demonstrated that in a cost effective way with a minimum dose of ozone both pharmaceuticals residues and pathogens can be totally removed beyond the limit of detection.



The glass to the right represent effluent water from MBR process containing both pathogens and pharmaceutical residues. The left glass of water shows after ozone polishing having no pathogens nor pharmaceutical residues. The water in the left glass can be used to replenish aquifers or artificial recharge. Thereby, the negative spiral of water scarcity in the world can be broken.



APPLICABILITY AND PRE-REQUISITES:

Applicability:

Reuse of reclaimed water and replenish aquifers.

Pre-requisites:

Effluent water electricity 220-240 V AC.

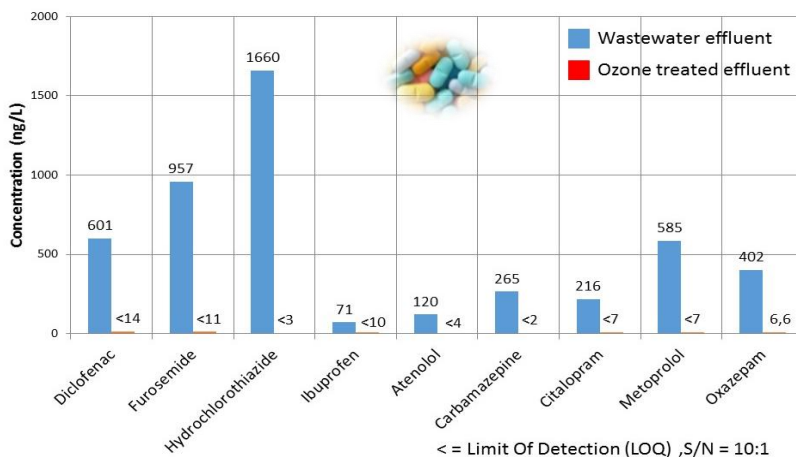
OPERATION AND MAINTENANCE:

Low operational cost and low maintenance.

COSTS:

Cost is dependent on how much water will be treated. The price cannot be specified at the moment.

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Online Water Control & Ozone Application