

49.- TA-Aqua+ UV system in combination with photo-catalyst

Title and name of product or technology
TA-Aqua+, oxidation process in combination with photo-catalyst
Abstract
The TA-Aqua+ is a water purifier proven to be extremely efficient in breaking down micro-organisms. The technology used in the TA-Aqua+ is based on the patented Advanced Oxidation Technology (AOT). AOT is based on the creation of hydroxyl radicals by photonic energy at several wavelengths in combination with a photo-catalyst.
Description including main features/advantages
<ul style="list-style-type: none"> - Breakdown of micro-organisms - Breakdown of organic contaminants - Hydroxyl radicals only exist for a few micro- to nanoseconds
Innovative aspects
The UV-light not only destructs DNA but also reacts with the titanium casing to create hydroxyl radicals. Both the DNA and the cell are broken-down.
Current and potential industrial users/domains of application
For use in process water to prevent micro-organisms, like <i>Legionella</i> .
Current state of development
The TA-Aqua+ is on the market.

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