

Rethink your resources

a high efficiency and cost effective tool to control bio-growth



Higher
plant
utilization



Lower
chemicals
use



Less
membranes
replacement



Lower
TCO



Easy to
implement
(retrofit)



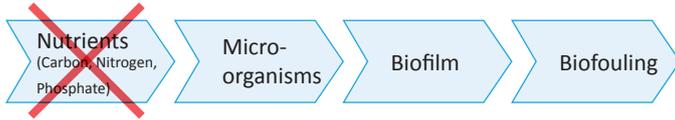
Long
life span



Easy to
operate



Bio-growth is disruptive to water treatment.

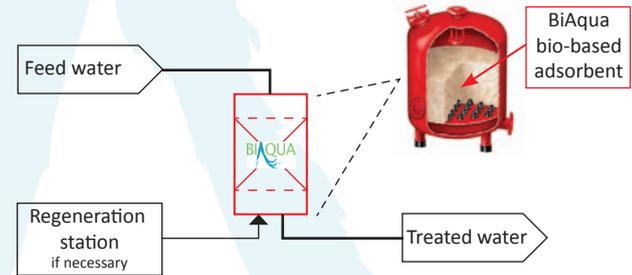


Bio-growth is source of significant problems and costs in water treatment. Bio-growth is the result of biofilms that develop when bacteria grow under favorable conditions (nutrients and energy).

BiAqua has developed a bio-based and sustainable adsorption technology to remove one vital nutrient component, phosphate. The BiAqua PRT™ (Phosphate Removal Technology) has the unique capability to reduce phosphate levels below 1-2 ppb. BiAqua solution can prevent biofouling, a major operational issue in reverse osmosis systems, to a large degree. The process can also reduce phosphate in waste water to meet the most stringent discharge limits.

BiAqua PRT™, one step solution:

BiAqua PRT™ requires no chemicals, is easy to implement and to operate. The BiAqua solution can be retrofitted in existing media filters or implemented as a stand alone solution.



BiAqua PRT™ is preventing bio-growth.



Membrane systems
Pre-treatment



Oil and Gas
Souring prevention



Horticulture



Cooling towers

One-step solution to resources savings.

Biogrowth costs in water treatment industry are > 0,10-0,15 EUR/m³.

with BiAqua PRT™:



Plant utilization

More availability
Reduced downtime
Less maintenance
Lower CAPEX



Chemicals

Environmentally friendly
Less frequent cleaning
No disinfectant/biocides



Membranes

Longer life time
No membrane degradation
Lower energy consumption



Total Cost of Ownership (TCO)

Less labor
Lower energy consumption
Longer equipment life span
Less consumables

BiAqua PRT™ payback period is 2-3 years.

(Business case for plant capacity of 10.000 m³/day)



Water bodies
Algal bloom



Waste water
Polishing step



Bio-corrosion
Distribution network



And more...



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