



Demonstrating integrated innovative technologies for an optimal and safe closed water cycle in Mediterranean tourist facilities www.demeaumed.eu



vertECO: CONSTRUCTED VERTICAL ECOSYSTEM

A.Zraunig, J. Kisser, alchemia-nova GmbH, office@alchemia-nova.net

M. Radtke, Radtke Biotechnik, manfred.radtke@radtkebiotec.de - H. Gattringer, blue carex phytotechnologies GmbH

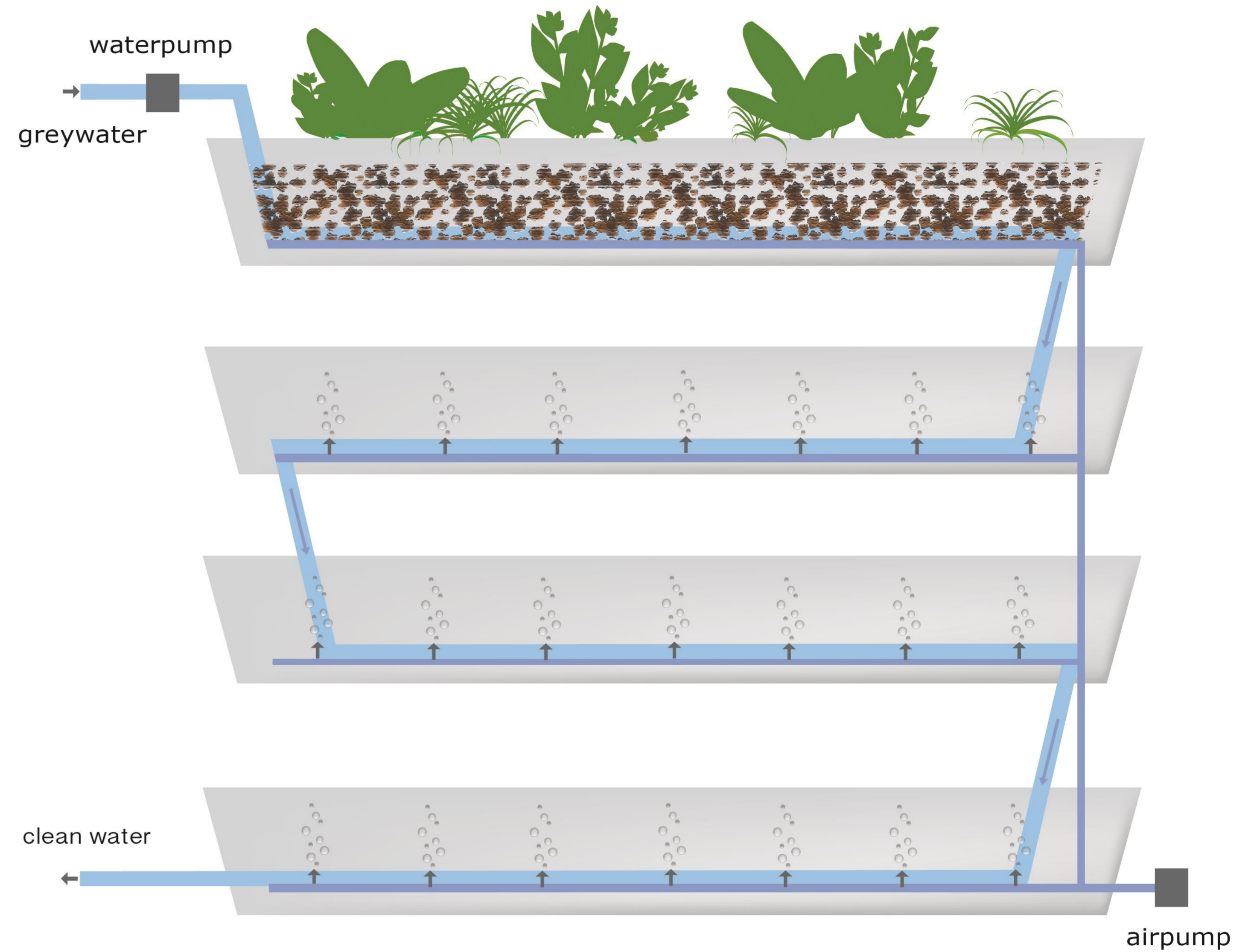
Description

vertECO is a constructed vertical ecosystem to treat greywater. The metabolism of microorganisms and plants and their symbiosis helps to remove pollutants and nutrients from wastewater.

Units can be installed indoors and outdoors directly on walls. About 6 m² wall area can treat 1 m³ water per day.

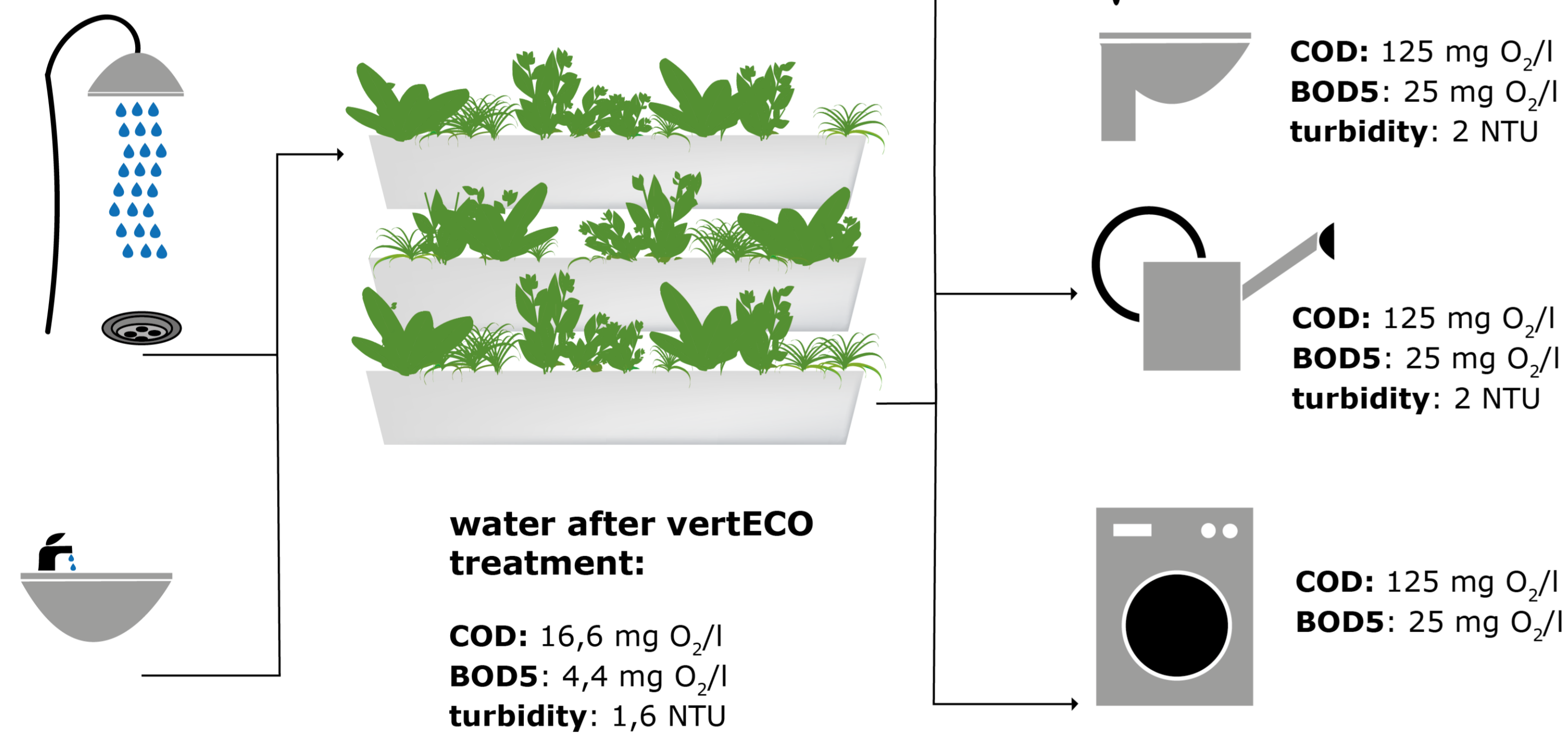
Results

- Effluent easily meets legal regulations for water reuse (e.g. toilet flushing, watering of green areas, laundry)
- Improvement of water parameters by over 85%
- Removal of micropollutants like pharmaceuticals or endocrine disruptors



greywater:

COD: 208,5 mg O₂/l
BOD5: 96,2 mg O₂/l
turbidity: 67,5 NTU



analytics by ICRA - data from: 2015-2017

Advantages

- Water savings of up to 50%
- No chemicals or consumables necessary
- Easy maintenance
- Low energy consumption (less than 2 kWh/m³)
- Highly decorative element for interior and exterior design
- Clear image of sustainability and corporate green policy transmitted to guests & visitors
- Modular and scalable for different needs
- Some microclimatic benefits

Contacts

For the commercialisation of vertECO we founded the spin-off company **blue carex phytotechnologies GmbH** Further information at:



www.bluecarex.at
office@bluecarex.at
www.alchemia-nova.at



nova
institute for innovative
phytochemistry
© closed loop processes

Radtke Biotechnik

www.radtkebiotec.de



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